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Soils of Oregon:
Summaries of Physical and Chemical Data

Oregon State University Extension Service
Special Report 662 / June 1982

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SOILS OF OREGON:

SUMMARIES OF PHYSICAL AND CHEMICAL DATA

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Oregon State University Extension Service

Special Report 662 / June 1982

INTRODUCTION

This report is the second document prepared to help answer the question, "What do we know about Oregon soils?" As with the first (SR 535 on Classification and Physiography), it is designed to make existing information much more accessible than it has been in the past.

Beginning in the mid-1950's, soil samples have been collected from throughout Oregon for chemical and physical characterization. Most of these samples have been taken in conjunction with progressive soil surveys. The objective has been to compile a body of information on the characterization and classification of Oregon soils. The data have been very useful for the stated objective, but because they have been stored only in file drawers in the Department of Soil Science and in local SCS offices, they really have not been readily available to other potential users.

From time to time people want to know the clay content, or the CEC, or some other property of a certain horizon in a specific soil. The only way to answer these questions has been to go to the files to dig out the lab data. With this report, the answers to these and many other questions about properties of Oregon soils will be readily available.

The data in this report are only summaries and statistical averages. They do not represent any specific soil profile, unless data were available for only a single profile of a given series. Where there were two or more soil profiles analyzed in a series, there were often variations in horizon nomenclature. One profile, for example, might have described on A3, whereas the other may have described a B1. In compiling the data, all horizons that

were judged to be equivalent were grouped together, and their data averaged. Thus, the objective is to give a general picture of the character of a soil profile and the properties of its component horizons. Specific data on specific profiles are still available in the files.

Data reported for each property of each horizon include the average, the standard deviation, the range, and the number of observations used in the calculations. The number of observations varies because not all profiles were analyzed for the same characteristics. For example, a file containing three profiles might have had organic carbon data for two of them, but not the third. Where there was only one profile or one observation, that value is reported as the average, and there is no calculation of standard deviation or range.

As thick as it is, even this report does not include all of the data available for Oregon soils. None of the data collected in various research projects and reported in theses, published papers, or Experimental Station publications are included. Characterization data through 1978 are summarized, but data since then are not. Changes in classification since 1980 are not indicated either. The introduction of an isomesic temperature regime, for example, is not reflected in the names and classifications reported.

Many people have made significant contributions to the effort to bring all these data together. Dr. Gerald Simonson made the files available to us. Mark Mellbye, Terry Svalberg, Michael Pauly, and Michael Degler all worked diligently to compile the data and calculate the statistics.

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SOILS OF OREGON:

SUMMARIES OF PHYSICAL AND CHEMICAL DATA

SOIL SERIES: Abegg TAXONOMIC NAME: Ultic Haploxeralf

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
A11	Ave	10.0	44.5	34.1	21.3	---	37.0	16.8	---
	S D					---			---
	Rng					---			---
	N	1	1	1	1	---	1	1	---
A12	Ave	12.5	39.0	35.9	25.0	---	35.0	15.5	---
	S D					---			---
	Rng					---			---
	N	1	1	1	1	---	1	1	---
B1	Ave	17.5	40.4	34.4	25.1	---	26.1	13.4	---
	S D					---			---
	Rng					---			---
	N	1	1	1	1	---	1	1	---
B21t	Ave	26.5	39.4	32.5	28.2	---	23.9	13.3	---
	S D					---			---
	Rng					---			---
	N	1	1	1	1	---	1	1	---
B22t	Ave	26.5	37.8	31.7	30.5	---	23.9	14.4	---
	S D					---			---
	Rng					---			---
	N	1	1	1	1	---	1	1	---
B3t	Ave	45.0	43.4	32.4	24.3	---	23.1	14.1	---
	S D					---			---
	Rng					---			---
	N	1	1	1	1	---	1	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Abegg TAXONOMIC NAME: Ultic Haploxeralf

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	---%				%	(ppm)	Meq/100g						(NH_4OAc)	(Σ Cat)	
A11	Ave	6.0	17.3	-----	NO AVAILABLE DATA	-----		33.0	14.7	3.0	.2	1.0	23.2	36.0	52.5	---	4.9
	S D															---	
	Rng															---	
	N	1	1					1	1	1	1	1	1	1	1	---	1
A12	Ave	5.6	13.0	-----	NO AVAILABLE DATA	-----		15.0	10.1	1.6	.3	.8	15.9	31.8	40.2	---	6.3
	S D															---	
	Rng															---	
	N	1	1					1	1	1	1	1	1	1	1	---	1
B1	Ave	5.5	4.5	-----	NO AVAILABLE DATA	-----		6.0	2.5	1.1	.2	.6	13.8	17.3	25.4	---	2.3
	S D															---	
	Rng															---	
	N	1	1					1	1	1	1	1	1	1	1	---	1
B21t	Ave	5.3	2.3	-----	NO AVAILABLE DATA	-----		4.0	1.3	1.1	.2	.5	11.9	15.2	20.4	---	1.2
	S D															---	
	Rng															---	
	N	1	1					1	1	1	1	1	1	1	1	---	1
B22t	Ave	5.5	---	-----	NO AVAILABLE DATA	-----		3.0	2.1	1.6	.1	.5	11.6	16.0	26.9	---	1.3
	S D		---													---	
	Rng		---													---	
	N	1	---					1	1	1	1	1	1	1	1	---	1
B3t	Ave	5.5	---	-----	NO AVAILABLE DATA	-----		2.0	2.5	1.8	.4	.5	8.9	17.3	30.0	---	1.4
	S D		---													---	
	Rng		---													---	
	N	1	---					1	1	1	1	1	1	1	1	---	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Abiqua

TAXONOMIC NAME: Cumulic Ultic Haploxeroll

Horizon	Stat.	Horizon Thickness (cm)	Sand %	Silt %	Clay %	.10 Atm. % H_2O	.33 Atm. % H_2O	15 Atm. % H_2O	Bulk Density (g/cc)
Ap	Ave	18.0	NO DATA AVAILABLE						
	S D	/							
	Rng								
	N	1							
A1	Ave	35.0	14.4	52.2	33.4	---	---	17.6	---
	S D	/	/	/	/	---	---	/	---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
A3	Ave	---	NO DATA AVAILABLE						
	S D	---							
	Rng	---							
	N	---							
B2t	Ave	43.0	18.6	46.9	34.5	---	---	19.6	---
	S D	/	/	/	/	---	---	/	---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
B3t	Ave	---	NO DATA AVAILABLE						
	S D	---							
	Rng	---							
	N	---							
IIC	Ave	15.0	NO DATA AVAILABLE						
	S D	/							
	Rng								
	N	1							
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Abiqua

TAXONOMIC NAME: Cumulic Ultic Haploxeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)		%			%	(ppm)			Meq/100g				(NH_4OAc)	(Σ Cat)	
Ap	Ave	7.4	---	NO DATA AVAILABLE					21.4	5.6	.5	.9	5.3	31.8	70.2	---	3.7
	S D		---						13.0	2.7	.65	.5			25.7	---	.6
	Rng		---						12-31	4-8	.08-1.0	.6-1.3			52-88	---	3.3-4.1
	N	1	---						2	2	2	2	1	1	2	---	2
A1	Ave	6.8	2.05	NO DATA AVAILABLE					13.7	4.45	.6	.65	19.4	29.7	57.1	---	3.8
	S D								12.4	2.2	.5	.07	19.8		39.1	---	
	Rng								5-23	3-6	.25-1.0	.6-.7	5-33		30-85	---	
	N	1	1						2	2	2	2	2	1	2	---	1
A3	Ave	---	---	NO DATA AVAILABLE					13.0	6.7	.1	.8	---	40.5	50.8	---	1.9
	S D	---	---										---			---	
	Rng	---	---										---			---	
	N	---	---						1	1	1	1	---	1	1	---	1
B2t	Ave	5.1	1.6	NO DATA AVAILABLE					8.1	5.2	.2	.3	27.6	35.4	39.4	---	1.8
	S D								4.8	1.1	.09	.2		1.6	18.8	---	
	Rng								5-12	4-6	.1-.3	.2-.4		34-37	26-53	---	
	N	1	1						2	2	2	2	1	2	2	---	1
B3t	Ave	---	---	NO DATA AVAILABLE					11.3	6.0	.1	.35	---	42.6	41.7	---	1.9
	S D	---	---										---			---	
	Rng	---	---										---			---	
	N	---	---						1	1	1	1	---	1	1	---	1
IIC	Ave	---	---	NO DATA AVAILABLE					11.3	5.9	.1	.4	---	37.7	46.9	---	1.9
	S D	---	---										---			---	
	Rng	---	---										---			---	
	N	---	---						1	1	1	1	---	1	1	---	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Agate TAXONOMIC NAME: Typic Durochrept

Horizon	Stat.	Horizon Thickness (cm)	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density (g/cc)
			----------	-%-	----------	----------	-% H_2O-	----------	
A1	Ave	15.0	32.9	47.0	20.1	---	27.6	9.9	1.7
	S D					---			
	Rng					---			
	N	1	1	1	1	---	1	1	1
B1	Ave	15.0	32.6	52.2	15.2	---	---	9.0	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
B21t	Ave	20.0	32.1	44.8	23.1	---	23.7	9.9	1.8
	S D					---			
	Rng					---			
	N	1	1	1	1	---	1	1	1
B22t	Ave	12.5	30.4	63.3	6.4	---	---	11.6	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
IIC1	Ave	12.5	77.2	---	23.7	---	---	---	---
	S D			---		---	---	---	---
	Rng			---		---	---	---	---
	N	1	1	---	1	---	---	---	---
IIC2	Ave	48.0	68.4	20.6	11.0	---	---	---	---
	S D					---	---	---	---
	Rng					---	---	---	---
	N	1	1	1	1	---	---	---	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Agate

TAXONOMIC NAME: Typic Durochrept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	----------%	----------		%	(ppm)	----------	----------	----------Meq/100g----------	----------	----------		(NH_4OAc)	(Σ Cat)	
A1	Ave	6.4	2.9	NO AVAILABLE	DATA		.08	21.0	10.1	1.4	.1	.5	5.5	---	68.7	---	---
	S D	/	/				/	/	/	/	/	/	/	---	/	---	---
	Rng	/	/				/	/	/	/	/	/	/	---	/	---	---
	N	1	1				1	1	1	1	1	1	1	---	1	---	---
B1	Ave	6.3	1.1	NO AVAILABLE	DATA		.08	9.0	9.1	9.1	.1	.25	4.4	---	71.2	---	---
	S D	/	/				/	/	/	/	/	/	/	---	/	---	---
	Rng	/	/				/	/	/	/	/	/	/	---	/	---	---
	N	1	1				1	1	1	1	1	1	1	---	1	---	---
B21t	Ave	6.4	---	NO AVAILABLE	DATA		.08	7.0	8.8	8.8	.2	.3	3.5	---	78.1	---	---
	S D	/	---				/	/	/	/	/	/	/	---	/	---	---
	Rng	/	---				/	/	/	/	/	/	/	---	/	---	---
	N	1	---				1	1	1	1	1	1	1	---	1	---	---
B22t	Ave	6.2	.5	NO AVAILABLE	DATA		.08	5.0	10.1	10.1	.1	.25	4.3	---	77.0	---	---
	S D	/	/				/	/	/	/	/	/	/	---	/	---	---
	Rng	/	/				/	/	/	/	/	/	/	---	/	---	---
	N	1	1				1	1	1	1	1	1	1	---	1	---	---
IIC1	Ave	6.7	.4	NO AVAILABLE	DATA		.03	5.0	---	---	---	---	---	---	---	---	---
	S D	/	/				/	/	---	---	---	---	---	---	---	---	---
	Rng	/	/				/	/	---	---	---	---	---	---	---	---	---
	N	1	1				1	1	---	---	---	---	---	---	---	---	---
IIC2	Ave	6.8	---	NO AVAILABLE	DATA		---	---	---	---	---	---	---	---	---	---	---
	S D	/	---				---	---	---	---	---	---	---	---	---	---	---
	Rng	/	---				---	---	---	---	---	---	---	---	---	---	---
	N	1	---				---	---	---	---	---	---	---	---	---	---	---
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Albee

TAXONOMIC NAME: Ultic Haploxeroll

Horizon	Stat.	Horizon Thickness (cm)	Sand (%)	Silt (%)	Clay (%)	.10 Atm. (% H_2O)	.33 Atm. (% H_2O)	15 Atm. (% H_2O)	Bulk Density (g/cc)			
1	Ave S D Rng N	37.0 / 1	NO DATA AVAILABLE									
2	Ave S D Rng N	37.0 / 1	NO DATA AVAILABLE									
3	Ave S D Rng N	92.0 / 1	NO DATA AVAILABLE									
	Ave S D Rng N											
	Ave S D Rng N											
	Ave S D Rng N											
	Ave S D Rng N											
	Ave S D Rng N											
	Ave S D Rng N											

SOIL SERIES: Albee

TAXONOMIC NAME: Ultic Haploxeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	---%---				%	(ppm)	---Meq/100g---						(NH_4OAc)	(Σ Cat)	
1	Ave	5.7	3.4	---	.2	12.0	---	16.0	10.6	3.0	.1	.9	---	---	---	---	3.6
	S D			---			---						---	---	---	---	
	Rng			---			---						---	---	---	---	
	N	1	1	---	1	1	---	1	1	1	1	1	---	---	---	---	1
2	Ave	5.7	1.8	---	.1	10.0	---	6.8	10.0	3.2	.1	.6	---	---	---	---	3.2
	S D			---			---						---	---	---	---	
	Rng			---			---						---	---	---	---	
	N	1	1	---	1	1	---	1	1	1	1	1	---	---	---	---	1
3	Ave	5.5	1.5	---	.09	10.0	---	10.0	9.7	3.4	.1	.5	---	---	---	---	2.9
	S D			---			---						---	---	---	---	
	Rng			---			---						---	---	---	---	
	N	1	1	---	1	1	---	1	1	1	1	1	---	---	---	---	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
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	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Alicel TAXONOMIC NAME: Pachic Haploxeroll

Horizon	Stat.	Horizon Thickness (cm)	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density (g/cc)
			---------- % ----------			---------- % H_2O ----------			
Ap	Ave	20.0	68.5	19.8	11.7	25.1	17.8	7.8	1.4
	S D		15.8	10.75	5.9	5.8	1.8	.7	.05
	Rng		57-79	12-27	8-15	21-29	16-19	7-8	1.3-1.5
	N	1	2	2	2	2	2	2	2
A12	Ave	22.5	62.75	23.7	13.6	25.7	16.5	7.6	1.45
	S D	3.5	4.7	2.8	2.3	5.1	1.2	.4	.1
	Rng	20-25	60-66	21-26	12-15	22-29	15-17	7-8	1.3-1.5
	N	2	2	2	2	2	2	2	2
B1	Ave	29.0	60.45	25.9	13.7	26.7	17.3	8.0	1.4
	S D	5.6	.8	---	.8	1.5	.8	.2	.2
	Rng	25-33	60-61	25.9	13-14	25-28	16-18	7-8	1.2-1.5
	N	2	2	2	2	2	2	2	2
B21t	Ave	39.5	62.1	22.9	15.0	28.5	21.9	8.3	1.6
	S D	9.2	4.2	3.5	2.3	3.8	4.6	.4	.2
	Rng	33-46	57-65	19-26	12-16	25-32	16-26	6.5-7.8	1.4-1.7
	N	2	3	3	3	3	3	3	3
B22t	Ave	22.5	58.8	24.9	16.4	---	---	---	---
	S D	3.5	4.5	3.7	.7	---	---	---	---
	Rng	20-25	55-62	22-28	16-17	---	---	---	---
	N	2	2	2	2	---	---	---	---
B3Ca	Ave	27.5	53.9	29.2	16.9	---	---	---	---
	S D	10.6				---	---	---	---
	Rng	20-35				---	---	---	---
	N	2	1	1	1	---	---	---	---
C	Ave	84.0	59.0	27.9	13.2	---	---	---	---
	S D		12.0	9.5	2.6	---	---	---	---
	Rng		45-66	21-39	11-16	---	---	---	---
	N	1	3	3	3	---	---	---	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Alicel

TAXONOMIC NAME: Pachic Haploxeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)		%			%	(ppm)			Meq/100g				(NH_4OAc)	(Σ Cat)	
Ap	Ave	6.9	2.5	1.5	.1	17.9	---	14.65	8.4	3.0	.1	1.8	---	22.0	60.0	---	2.8
	S D	.5	.7	.5			---	4.0					---			---	
	Rng	6.4-7.4	2.0-3.3	1.2-1.9			---	12-18					---			---	
	N	3	3	2	1	1	---	2	1	1	1	1	---	1	1	---	1
A12	Ave	6.9	2.5	1.5	.1	16.5	---	11.8	9.2	3.7	.1	1.2	---	19.9	71.0	---	2.5
	S D	.25	.3	.15			---	2.5					---			---	
	Rng	6.6-7.1	2.2-2.8	1.4-1.6			---	10-14					---			---	
	N	3	3	2	1	1	---	2	1	1	1	1	---	1	1	---	1
B1	Ave	7.1	1.75	1.0	.1	14.2	---	14.5	8.1	3.9	.1	.8	---	18.5	70.0	---	2.1
	S D	.1	.35	.2			---						---			---	
	Rng	7.0-7.2	1.5-2.0	.9-1.1			---						---			---	
	N	2	2	2	1	1	---	1	1	1	1	1	---	1	1	---	1
B21t	Ave	7.7	.9	.5	.1	---	---	12.3	7.8	5.4	.2	.9	---	19.1	75.0	---	1.4
	S D	.7	.25	.15		---	---						---			---	
	Rng	7.3-8.5	.1-1.2	.4-.7		---	---						---			---	
	N	3	3	3	1	---	---	1	1	1	1	1	---	1	1	---	1
B22t	Ave	8.0	.45	.3	T	---	---	9.0	7.8	5.6	.2	1.0	---	19.1	---	---	1.5
	S D	1.55	.07	.05		---	---						---		---	---	
	Rng	7-9	.4-.5	.2-.3		---	---						---		---	---	
	N	2	2	2	1	---	---	1	1	1	1	1	---	1	---	---	1
B3Ca	Ave	9.3	.3	.2	---	---	---	---	---	---	---	---	---	---	---	---	---
	S D				---	---	---	---	---	---	---	---	---	---	---	---	---
	Rng				---	---	---	---	---	---	---	---	---	---	---	---	---
	N	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---
C	Ave	8.7	.2	.1	T	---	---	6.5	6.6	5.0	.2	.7	---	16.5	---	---	1.3
	S D	.7	.1	.07		---	---						---		---	---	
	Rng	7.9-9.2	.1-.3	.06-.20		---	---						---		---	---	
	N	3	3	3	1	---	---	1	1	1	1	1	---	1	---	---	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Alsea

TAXONOMIC NAME: Cumulic Hapludoll

Horizon	Stat.	Horizon Thickness (cm)	Sand (%)	Silt (%)	Clay (%)	.10 Atm. (% H_2O)	.33 Atm. (% H_2O)	15 Atm. (% H_2O)	Bulk Density (g/cc)
A11	Ave	15.0	33.1	40.0	27.0	NO DATA AVAILABLE			
	S D								
	Rng								
	N	1	1	1	1				
A12	Ave	12.0	29.1	39.8	31.2	NO DATA AVAILABLE			
	S D								
	Rng								
	N	1	1	1	1				
A3	Ave	7.0	30.5	38.8	30.7	NO DATA AVAILABLE			
	S D								
	Rng								
	N	1	1	1	1				
B1	Ave	12.0	32.5	38.7	28.8	NO DATA AVAILABLE			
	S D								
	Rng								
	N	1	1	1	1				
B21	Ave	25.0	36.6	37.6	25.8	NO DATA AVAILABLE			
	S D								
	Rng								
	N	1	1	1	1				
B22	Ave	15.0	41.9	35.2	23.0	NO DATA AVAILABLE			
	S D								
	Rng								
	N	1	1	1	1				
B23	Ave	25.0	53.0	29.1	17.8	NO DATA AVAILABLE			
	S D								
	Rng								
	N	1	1	1	1				
B3	Ave	25.0	62.2	25.4	12.4	NO DATA AVAILABLE			
	S D								
	Rng								
	N	1	1	1	1				
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Alsea

TAXONOMIC NAME: Cumulic Hapludoll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	%	----------		%	(ppm)	----------	----------	Meq/100g	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
A11	Ave	6.0	---	7.6	.3	27.1	---	---	16.2	9.5	.2	1.2	---	40.1	67.5	---	1.7
	S D		---				---	---					---			---	
	Rng		---				---	---					---			---	
	N	1	---	1	1	1	---	---	1	1	1	1	---	1	1	---	1
A12	Ave	5.9	---	6.6	.2	30.0	---	---	15.6	9.5	.5	.5	---	42.1	62.0	---	1.6
	S D		---				---	---					---			---	
	Rng		---				---	---					---			---	
	N	1	---	1	1	1	---	---	1	1	1	1	---	1	1	---	1
A3	Ave	5.8	---	6.3	.2	28.6	---	---	15.6	10.0	.3	.4	---	41.1	64.0	---	1.6
	S D		---				---	---					---			---	
	Rng		---				---	---					---			---	
	N	1	---	1	1	1	---	---	1	1	1	1	---	1	1	---	1
B1	Ave	5.8	---	5.6	---	---	---	---	16.2	10.3	.3	.3	---	40.7	66.6	---	1.6
	S D		---		---	---	---	---					---			---	
	Rng		---		---	---	---	---					---			---	
	N	1	---	1	---	---	---	---	1	1	1	1	---	1	1	---	1
B21	Ave	5.9	---	4.2	---	---	---	---	15.9	10.3	.5	.3	---	39.4	68.5	---	1.5
	S D		---		---	---	---	---					---			---	
	Rng		---		---	---	---	---					---			---	
	N	1	---	1	---	---	---	---	1	1	1	1	---	1	1	---	1
B22	Ave	5.9	---	6.1	---	---	---	---	17.5	11.0	.3	.3	---	39.2	74.2	---	1.6
	S D		---		---	---	---	---					---			---	
	Rng		---		---	---	---	---					---			---	
	N	1	---	1	---	---	---	---	1	1	1	1	---	1	1	---	1
B23	Ave	6.0	---	1.5	---	---	---	---	16.5	10.8	.4	.2	---	32.8	85.1	---	1.5
	S D		---		---	---	---	---					---			---	
	Rng		---		---	---	---	---					---			---	
	N	1	---	1	---	---	---	---	1	1	1	1	---	1	1	---	1
B3	Ave	6.0	---	1.2	---	---	---	---	17.5	10.3	.4	.2	---	28.4	100.0	---	1.7
	S D		---		---	---	---	---					---			---	
	Rng		---		---	---	---	---					---			---	
	N	1	---	1	---	---	---	---	1	1	1	1	---	1	1	---	1
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Alspaugh

TAXONOMIC NAME: Humic Hapludult

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
A_p	Ave	15.5	26.9	41.6	31.5	---	37.6	19.9	1.04
	S D	3.5	3.0	.57	1.34	---	1.56	2.6	.057
	Rng	13-18	26-28	41-42	30-32	---	37-39	18-22	1-1.08
	N	2	2	2	2	---	2	2	2
A_3	Ave	16.5	25.2	42.0	32.9	---	31.3	18.25	1.15
	S D	2.12	1.5	.85	2.3	---		0.5	
	Rng	15-18	24-26	41-43	31-35	---		17-19	
	N	2	2	2	2	---	1	2	1
B_1	Ave	13.5	23.5	39.3	28.25	---	28.9	18.3	1.29
	S D	2.12	3.0	3.7	6.01	---	.63	.57	.04
	Rng	13-14	21-26	38-42	32-42	---	28-29	18-19	1.2-1.3
	N	2	2	2	2	---	2	2	2
B_{21t}	Ave	16.0	21.7	36.8	41.8	---	31.8	18.9	1.28
	S D	2.8	6.22	4.5	11.2	---	---	2.3	
	Rng	14-18	17-26	34-40	34-50	---	---	17-21	
	N	2	2	2	2	---	---	2	1
B_{22t}	Ave	23	20.25	36.6	43.2	---	29.8	19.2	1.32
	S D	---	2.9	2.5	5.4	---	1.34	1.5	.071
	Rng	23	18-22	35-38	39-47	---	29-31	18-20	1.2-1.3
	N	2	2	2	2	---	2	2	2
B_3	Ave	20.5	16.25	37	46.8	---	32.3	21.8	1.25
	S D	.071	3.6	3.5	.212	---		1.9	
	Rng	20-21	14-19	34-40	46-47	---		20-23	
	N	2	2	2	2	---	1	2	1
C	Ave	23.0	30.25	35.25	34.5	---	35.0	21.2	1.22
	S D	4.2	3.18	6.0	9.19	---		.42	
	Rng	20-26	28-32	31-40	28-41	---		21-22	
	N	2	2	2	2	---	1	2	1
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Alspaugh

TAXONOMIC NAME: Humic Hapludult

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---	-------		%	(ppm)	----------	----------	--Meq/100g--	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
A_p	Ave	5.5	---	5.8	.2275	21	3.0	---	8.25	2.3	.1	1.15	26.5	31.1	37.5	30.9	7
	S D	.42	---	.396	.004	1.41		---	.495	.42	---	.07	.92	1.2	2.12	1.06	5.65
	Rng	5.2-5.8	---	5.5-6.1	.02-.03	20-22		---	7.9-8.6	2-2.6	.1	1.1-1.2	26-27	30-32	36-39	30-32	3-11
	N	2	---	2	2	2	1	---	2	2	2	2	2	2	2	2	2
A_3	Ave	5.5	---	2.5	.149	17	3.1	---	4.2	1.8	.1	1.15	21.3	24.5	29	25.5	2.35
	S D	0.07	---	.93	.033	2.8		---	.42	---	---	.35	2.3	1.3	1.41	1.9	.21
	Rng	5.4-5.6	---	1.9-3.2	.13-.17	15-19		---	3.9-4.5	1.8	.1	.9-1.4	20-23	24-25	28-30	24-27	2.2-2.5
	N	2	---	2	2	2	1	---	2	2	2	2	2	2	2	2	2
B_1	Ave	5.55	---	.88	.067	13.5	3.3	---	4.0	1.45	.1	1.0	16.9	22.4	28.5	27.8	3
	S D	0.07	---	.21	.0014	3.5		---	---	.63	---	.42	.212	3.4	.707	2.9	1.34
	Rng	5.5-5.6	---	.73-1.0	.06-.07	11-16		---	4.0	1.0-1.9	.1	.7-1.3	16-17	20-25	28-29	25-30	2-4
	N	2	---	2	2	2	1	---	2	2	2	2	2	2	2	2	2
B_{21t}	Ave	5.45	---	.40	.045	12	3.4	---	3.6	1.45	.15	.25	17.1	20.9	25.5	23.9	3.15
	S D	.071	---	.23				---	.707	1.06	.071	.071	.35	2.2	6.4	6.8	1.76
	Rng	5.4-5.5	---	.24-.56				---	3.1-4.1	.7-2.2	.1-.2	.2-.3	17-18	19-22	21-30	19-29	2-4
	N	2	---	2	1	1	1	---	2	2	2	2	2	2	2	2	2
B_{22t}	Ave	5.3	---	.285	---	---	3.3	---	2.95	1.55	.1	.15	16.8	20.6	22.5	22.1	2.09
	S D	.141	---	.149	---	---		---	.071	.636	---	.071	1.06	1.3	2.12	1.2	.9
	Rng	5.2-5.4	---	.18-.39	---	---		---	2.9-3	1.1-2	.1	.1-.2	16-18	20-22	21-24	21-23	1.5-2.7
	N	2	---	2	---	---	1	---	2	2	2	2	2	2	2	2	2
B_3	Ave	5.15	---	.095	---	---	3.2	---	2.8	1.7	.1	.1	17.7	20.7	22	21.0	1.6
	S D	.071	---	.035	---	---		---									
	Rng	5.1-5.2	---	.07-.12	---	---		---									
	N	2	---	2	---	---	1	---	1	1	1	1	1	1	1	1	1
C	Ave	5.15	---	.07	---	---	3.3	---	2.0	1.8	0.2	0.1	20.0	23.6	17	17.0	1.1
	S D	.212	---	.014	---	---		---									
	Rng	5.0-5.3	---	.06-.08	---	---		---									
	N	2	---	2	---	---	1	---	1	1	1	1	1	1	1	1	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Aloha

TAXONOMIC NAME: Aquic Xerochrept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	-%-	----------	----------	-% H_2O-	----------	(g/cc)
Ap	Ave	20.0	30.2	53.8	15.9	---	20.2	7.9	1.55
	S D	---	11.4	8.9	2.6	---		.7	
	Rng	20.0	18-41	45-64	13-19	---		7.4-8.4	
	N	2	3	3	3	---	1	2	1
A3	Ave	18.0	30.9	52.1	17.0	---	19.3	8.3	1.5
	S D		17.5	11.2	6.3	---		1.0	
	Rng		18-43	44-60	12-22	---		7.6-9.0	
	N	1	2	2	2	---	1	2	1
B1	Ave	20.0	24.6	54.9	22.5	---	---	9.2	---
	S D		9.3	7.2	2.1	---	---		---
	Rng		18-31	49-60	19-22	---	---		---
	N	1	2	2	2	---	---	1	---
B21	Ave	19.0	35.4	46.5	18.1	---	---	---	1.5
	S D	1.4	6.0	4.4	1.6	---	---	---	
	Rng	18-20	31-40	43-50	17-20	---	---	---	
	N	2	2	2	2	---	---	---	1
B22	Ave	22.5	32.1	56.8	21.1	---	25.1	11.3	1.45
	S D	3.5	12.1	11.6	1.6	---		.6	
	Rng	20-25	19-43	36-59	19-23	---		11-12	
	N	2	3	3	3	---	1	2	1
B3	Ave	38.0	34.1	46.7	19.2	---	2.7	11.0	1.4
	S D		12.2	11.0	1.3	---		.4	
	Rng		25-43	39-55	18-20	---		11-12	
	N	1	2	2	2	---	1	2	1
C1	Ave	34.5	47.2	36.5	16.3	---	---	---	1.4
	S D	2.1	3.8	6.6	2.7	---	---	---	
	Rng	33-36	44-50	31-41	14-18	---	---	---	
	N	2	2	2	2	---	---	---	1
C2	Ave	20.0	48.7	35.4	15.9	---	---	---	---
	S D		20.5	21.9	1.4	---	---	---	---
	Rng		34-63	20-51	14-17	---	---	---	---
	N	1	2	2	2	---	---	---	---
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Aloha

TAXONOMIC NAME: Aquic Xerochrept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)		%			%	(ppm)			Meq/100g				(NH_4OAc)	(Σ Cat)	
Ap	Ave	5.8	2.5	---	---	---	---	54.4	6.0	1.7	.1	.5	10.9	14.25	57.8	---	3.4
	S D	.1	.1	---	---	---	---	40.2	2.0	.6	---	.2	2.1	1.1	12.6	---	1.0
	Rng	5.7-6.0	2.4-2.6	---	---	---	---	26-83	3-8	1.3-2.4	.1	.3-.7	9-12	13-15	43-68	---	2.9-5.0
	N	4	2	---	---	---	---	2	3	3	2	3	2	2	3	---	3
A3	Ave	6.0	.8	---	---	---	---	77.2	4.3	1.6	.1	.4	10.5	---	54.3	---	2.7
	S D	---	/	---	---	---	---	/	/	/	/	/	/	---	/	---	/
	Rng	6.0	/	---	---	---	---	/	/	/	/	/	/	---	/	---	/
	N	2	1	---	---	---	---	1	1	1	1	1	1	---	1	---	1
B1	Ave	5.7	.85	---	---	---	---	32.4	5.6	2.0	.1	.3	8.3	12.7	65.2	---	3.0
	S D	.1	.2	---	---	---	---	/	1.3	.3	---	.1	---	/	8.1	---	/
	Rng	5.6-5.8	.7-1.0	---	---	---	---	/	4-7	1-3	.1	.2-.4	8.3	/	59-71	---	/
	N	2	2	---	---	---	---	1	2	2	2	2	2	1	2	---	1
B21	Ave	5.7	.7	---	---	---	---	---	7.2	3.3	.2	.2	8.1	13.5	80.7	---	2.2
	S D	---	/	---	---	---	---	---	/	/	/	/	/	/	/	---	/
	Rng	5.7	/	---	---	---	---	---	/	/	/	/	/	/	/	---	/
	N	2	1	---	---	---	---	---	1	1	1	1	1	1	1	---	1
B22	Ave	5.9	.35	---	---	---	---	27.1	8.9	3.8	.1	.4	8.6	---	88.7	---	2.3
	S D	---	.2	---	---	---	---	/	/	/	/	/	/	---	/	---	/
	Rng	5.9	.2-.5	---	---	---	---	/	/	/	/	/	/	---	/	---	/
	N	3	2	---	---	---	---	1	1	1	1	1	1	---	1	---	1
B3	Ave	6.05	.03	---	---	---	---	19.6	11.6	5.2	.1	.3	5.9	---	79.6	---	1.7
	S D	.2	/	---	---	---	---	/	/	/	/	/	/	---	/	---	/
	Rng	5.9-6.2	/	---	---	---	---	/	/	/	/	/	/	---	/	---	/
	N	2	1	---	---	---	---	1	1	1	1	1	1	---	1	---	1
C1	Ave	6.1	.05	---	---	---	---	---	10.5	5.3	.2	.3	5.6	17.5	93.1	---	2.0
	S D	.1	/	---	---	---	---	---	/	/	/	/	/	/	/	---	/
	Rng	6.0-6.2	/	---	---	---	---	---	/	/	/	/	/	/	/	---	/
	N	2	1	---	---	---	---	---	1	1	1	1	1	1	1	---	1
C2	Ave	6.15	.2	---	---	---	---	---	10.8	5.3	.2	.3	5.4	17.6	94.3	---	2.0
	S D	.2	/	---	---	---	---	---	/	/	/	/	/	/	/	---	/
	Rng	6.0-6.3	/	---	---	---	---	---	/	/	/	/	/	/	/	---	/
	N	2	1	---	---	---	---	---	1	1	1	1	1	1	1	---	1
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Amity

TAXONOMIC NAME: Argiaquic Xeric Argialboll

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
Ap/A11	Ave	22.0	13.7	61.6	24.7	27.4	26.2	11.0	1.4
	S D	7.6	8.0	10.4	3.7			1.5	
	Rng	10-35	6-21	48-73	20-29			9-12	
	N	8	5	5	5	1	1	3	1
A12	Ave	16.8	9.9	23.7	11.4	---	---	---	---
	S D	3.8	6.9	1.25	.6	---	---	---	---
	Rng	10-20	5-18	22-25	11-12	---	---	---	---
	N	6	3	3	2	---	---	---	---
A2	Ave	19.0	15.9	61.5	26.1	25.3	24.3	11.6	1.6
	S D	3.5	12.8	10.1	29.2			.95	
	Rng	13-23	6-34	46-72	22-29			10-12	
	N	8	5	5	5	1	1	3	1
B1	Ave	20.5	13.7	57.7	28.55	29.1	28.2	14.2	---
	S D	3.5	7.5	6.9	.6				---
	Rng	18-23	8-19	53-63	28-29				---
	N	2	2	2	2	1	1	1	---
B21t	Ave	19.0	10.3	57.7	32.0	---	---	19.6	---
	S D	5.0	8.3	6.7	3.7	---	---		---
	Rng	13-25	4-24	50-65	26-35	---	---		---
	N	8	5	5	5	---	---	1	---
B22t	Ave	19.4	6.4	64.9	28.4	---	---	18.65	---
	S D	5.9	5.1	7.1	6.4	---	---	2.3	---
	Rng	13-25	3-14	59-72	24-38	---	---	17-20	---
	N	5	4	4	4	---	---	2	---
B3	Ave	33.4	8.2	69.5	22.3	---	---	16.6	---
	S D	14.4	6.2	4.4	7.8	---	---	2.5	---
	Rng	18-56	3-17	64-74	15-33	---	---	15-18	---
	N	7	4	4	4	---	---	2	---
C	Ave	39.0	20.8	62.5	16.5	---	---	11.9	---
	S D	30.1	13.5	12.9	6.1	---	---	1.3	---
	Rng	18-102	5-37	47-78	9-22	---	---	11-13	---
	N	8	5	5	5	---	---	2	---
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Amity

TAXONOMIC NAME: Argiaquic Xeric Argialboll

Horizon	Stat.	pH (1:1 H_2O)	Organic Matter %	Organic Carbon %	N %	C/N Ratio	Free Fe_2O_3 %	Avail. P (ppm)	Ca Meq/100g	Mg Meq/100g	Na Meq/100g	K Meq/100g	H^+ Meq/100g	CEC Meq/100g	% Base Sat. (NH_4OAc)	% Base Sat. (E Cat)	Ca/Mg
Ap/A11	Ave	5.4	4.6	2.7	.2	12.8	1.7	14.6	7.3	2.3	.12	.6	16.5	22.6	41.5	---	3.1
	S D	.3	/	.8	.05	.4	.8	18.2	1.3	.5	.16	.3	5.4	5.7	8.4	---	.7
	Rng	4.9-6.0	/	1.6-3.0	.1-.3	12-13	.8-2.4	2-28	5.1-9.4	1.8-3.0	.01-.5	.2-1.1	12-23	10-32	29-47	---	2.6-4.3
	N	8	1	4	4	4	3	3	8	8	7	8	3	6	4	---	8
A12	Ave	5.6	---	1.75	.15	11.6	1.75	---	7.9	2.9	.17	.4	15.1	24.9	36.5	---	2.75
	S D	.4	---	.7	.05	.9	.35	---	1.5	1.0	.17	.65	5.6	2.25	16.2	---	.5
	Rng	5.0-6.1	---	1.3-2.2	.1-.2	11-12	1.5-2.0	---	5.0-9.3	1.4-4.2	.06-.5	.2-.6	10-21	23-28	25-48	---	2.2-3.5
	N	6	---	2	2	2	2	---	6	6	6	6	3	4	2	---	6
A2	Ave	5.7	.9	.8	.08	10.5	1.8	14.7	7.8	3.1	.17	.25	10.1	20.2	50.9	---	2.5
	S D	.5	/	.2	.01	1.5	.2	/	1.9	1.0	.13	.08	3.8	3.2	14.7	---	.4
	Rng	5.1-6.3	/	.6-1.1	.07-.09	9-12	1.5-2.0	/	4-11	1.7-4.6	.01-.4	.1-.35	7-14	16-23	32-63	---	1.9-3.1
	N	8	1	3	3	3	4	1	8	8	8	8	3	6	4	---	8
B1	Ave	5.5	.15	.3	.04	8.2	1.8	16.25	11.0	4.5	.13	.235	---	17.2	88.0	---	2.4
	S D	.1	/	/	/	/	/	/	/	/	/	/	---	1.1	/	---	/
	Rng	5.4-5.6	/	/	/	/	/	/	/	/	/	/	---	16-18	/	---	/
	N	2	1	1	1	1	1	1	1	1	1	1	---	2	1	---	1
B21t	Ave	5.85	.3	.3	.03	9.6	1.6	15.75	14.6	7.6	.3	.4	8.0	29.0	81.0	---	1.9
	S D	.5	/	.08	.008	2.6	.3	/	3.2	1.2	.2	.2	2.6	6.5	14.7	---	.4
	Rng	5.0-6.6	/	.2-.4	.02-.04	7-12	1.4-2.0	/	10-19	6-9	.2-.7	.2-.6	6-11	22-37	63-99	---	1.4-2.5
	N	8	1	3	3	3	4	1	8	8	7	8	3	6	4	---	8
B22t	Ave	5.9	---	.2	.03	7.9	1.55	9.8	16.7	9.7	.4	.4	5.8	32.2	74.3	---	1.8
	S D	.3	---	.05	/	/	.07	/	2.6	1.7	.3	.9	.9	5.9	16.3	---	.5
	Rng	5.5-6.3	---	.1-.3	/	/	1.5-1.6	/	13-19	7-12	.2-.8	.3-.5	4.8-6.5	26-40	55-85	---	1.3-2.5
	N	4	---	2	1	1	2	1	5	5	4	5	3	5	3	---	5
B3	Ave	6.5	---	.1	---	---	2.0	---	15.5	8.6	.4	.4	4.0	28.4	86.3	---	1.9
	S D	.5	---	.01	---	---	1.2	---	3.0	1.5	.2	.07	.5	5.7	3.2	---	.4
	Rng	5.8-7.0	---	.09-.11	---	---	1.3-3.7	---	12-21	7-11	.2-.8	.3-.5	3.5-4.4	21-39	84-90	---	1.5-2.5
	N	7	---	2	---	---	4	---	7	7	6	7	3	5	3	---	7
C	Ave	6.4	.2	.08	.02	5.5	2.1	---	13.8	6.6	.3	.3	3.9	23.3	87.0	---	2.85
	S D	.55	/	.02	/	/	.9	---	2.2	1.8	.1	.09	1.9	2.1	11.9	---	2.3
	Rng	5.5-6.9	/	.07-.1	/	/	1.4-3.5	---	9.2-17	5.2-9.2	.2-.5	.1-.4	2.0-5.8	21-27	72-100	---	1.5-2.5
	N	8	1	3	1	1	5	---	8	8	7	8	3	6	4	---	7
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Apt

TAXONOMIC NAME: Typic Haplohumult

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	-%-	----------	----------	-% H_2O-	----------	(g/cc)
A11	Ave	5.0	18.4	38.5	43.1	----------	-NO AVAILABLE DATA -	----------	
	S D	/	/	/	/				
	Rng								
	N	1	1	1	1				
A12	Ave	15.0	15.0	40.1	45.0	----------	-NO AVAILABLE DATA -	----------	
	S D	/	/	/	/				
	Rng								
	N	1	1	1	1				
B11	Ave	26.0	11.0	36.5	52.6	46.0	42.7	24.7	1.2
	S D	/	/	/	/	/	/	/	/
	Rng								
	N	1	1	1	1	1	1	1	1
B12	Ave	12.0	8.8	34.2	57.0	----------	-NO AVAILABLE DATA -	----------	
	S D	/	/	/	/				
	Rng								
	N	1	1	1	1				
B21	Ave	32.0	8.5	42.3	48.2	49.1	45.9	24.0	1.2
	S D	/	/	/	/	/	/	/	/
	Rng								
	N	1	1	1	1	1	1	1	1
B22	Ave	30.0	8.3	42.1	49.6	----------	-NO AVAILABLE DATA -	----------	
	S D	/	/	/	/				
	Rng								
	N	1	1	1	1				
B3	Ave	35.0	16.9	41.3	35.8	----------	-NO AVAILABLE DATA -	----------	
	S D	/	/	/	/				
	Rng								
	N	1	1	1	1				
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Apt

TAXONOMIC NAME: Typic Haplohumult

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---	----------		%	(ppm)	----------	----------	---Meq/100g---	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
A11	Ave	6.3	---	6.9	.3	21.6	---	---	31.1	12.4	.3	3.5	---	45.0	100.0	---	2.5
	S D	/	---	/	/	/	---	---	/	/	/	/	---	/	/	---	/
	Rng	/	---	/	/	/	---	---	/	/	/	/	---	/	/	---	/
	N	1	---	1	1	1	---	---	1	1	1	1	---	1	1	---	1
A12	Ave	6.5	---	5.1	.3	12.7	---	---	25.6	10.0	.2	3.0	---	41.9	92.6	---	2.6
	S D	/	---	/	/	/	---	---	/	/	/	/	---	/	/	---	/
	Rng	/	---	/	/	/	---	---	/	/	/	/	---	/	/	---	/
	N	1	---	1	1	1	---	---	1	1	1	1	---	1	1	---	1
B11	Ave	5.9	---	1.9	.1	16.9	---	---	8.0	5.0	.2	1.0	---	34.2	41.5	---	1.6
	S D	/	---	/	/	/	---	---	/	/	/	/	---	/	/	---	/
	Rng	/	---	/	/	/	---	---	/	/	/	/	---	/	/	---	/
	N	1	---	1	1	1	---	---	1	1	1	1	---	1	1	---	1
B12	Ave	5.6	---	.8	.1	13.7	---	---	6.1	4.2	.3	.4	---	34.2	32.2	---	1.5
	S D	/	---	/	/	/	---	---	/	/	/	/	---	/	/	---	/
	Rng	/	---	/	/	/	---	---	/	/	/	/	---	/	/	---	/
	N	1	---	1	1	1	---	---	1	1	1	1	---	1	1	---	1
B21	Ave	5.7	---	.4	.03	13.0	---	---	4.0	2.9	.3	.3	---	35.3	21.2	---	1.4
	S D	/	---	/	/	/	---	---	/	/	/	/	---	/	/	---	/
	Rng	/	---	/	/	/	---	---	/	/	/	/	---	/	/	---	/
	N	1	---	1	1	1	---	---	1	1	1	1	---	1	1	---	1
B22	Ave	5.8	---	.3	.03	9.0	---	---	3.4	2.9	.3	.3	---	32.6	21.2	---	1.2
	S D	/	---	/	/	/	---	---	/	/	/	/	---	/	/	---	/
	Rng	/	---	/	/	/	---	---	/	/	/	/	---	/	/	---	/
	N	1	---	1	1	1	---	---	1	1	1	1	---	1	1	---	1
B3	Ave	5.5	---	.5	.03	12.0	---	---	2.5	2.2	.2	.3	---	33.5	15.5	---	1.1
	S D	/	---	/	/	/	---	---	/	/	/	/	---	/	/	---	/
	Rng	/	---	/	/	/	---	---	/	/	/	/	---	/	/	---	/
	N	1	---	1	1	1	---	---	1	1	1	1	---	1	1	---	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Aschoff

TAXONOMIC NAME: Andic Haplumbrept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
A1	Ave	22.0	30.3	56.1	12.4	---	---	---	---
	S D	9.6	1.8	7.5	7.1	---	---	---	---
	Rng	15-33	28-32	46-63	8-23	---	---	---	---
	N	3	4	4	4	---	---	---	---
A3	Ave	17.7	33.9	52.8	13.3	52.7	49.1	27.6	---
	S D	6.4	5.0	10.5	6.2				---
	Rng	13-25	28-39	42-63	7-21				---
	N	3	4	4	4	1	1	1	---
B1	Ave	19.0	30.6	54.7	14.9	---	---	---	---
	S D	12.7	4.5	11.8	7.4	---	---	---	---
	Rng	10-28	27-34	46-63	10-20	---	---	---	---
	N	2	2	2	2	---	---	---	---
B2	Ave	29.6	35.4	42.7	21.0	46.7	43.7	21.4	---
	S D	5.0	7.9	15.9	6.8				---
	Rng	23-36	26-43	22-60	13-30				---
	N	5	5	5	5	1	1	1	---
B3	Ave	29.0	28.75	53.9	17.3	---	---	---	---
	S D	1.4	2.3	7.4	5.1	---	---	---	---
	Rng	28-30	27-30	49-59	14-21	---	---	---	---
	N	2	2	2	2	---	---	---	---
C	Ave	21.5	35.6	52.4	12.1	---	---	---	---
	S D	9.5	15.2	14.9	8.4	---	---	---	---
	Rng	8-30	23-56	39-73	5-20	---	---	---	---
	N	4	4	4	4	---	---	---	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Aschoff TAXONOMIC NAME: Andic Haplumbrept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	%----------			%	(ppm)	----------	----------	Meq/100g	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
A1	Ave	5.65	11.05	6.4	.25	25.0	4.2	6.3	2.6	.85	.15	.4	---	30.7	12.2	---	4.65
	S D	.5	3.8	2.2	.05	3.7	1.1	4.95	3.8	1.1	.13	.4	---	6.2	16.1	---	1.9
	Rng	5.2-6.3	8-16	4.6-9.2	.2-.3	23-29	3.4-5.0	2.8-9.8	.1-8.2	.2-2.5	.04-.30	.1-1.0	---	23-38	2-36	---	3.3-6.0
	N	4	4	4	4	4	2	2	4	4	4	4	---	4	4	---	2
A3	Ave	5.6	11.0	6.4	.23	28.2	4.2	4.0	1.7	.78	.275	.35	---	36.1	9.15	---	2.1
	S D	.4	2.1	1.2	.035	4.2	.9	1.7	1.6	.4	.10	.25	---	4.2	7.0	---	1.4
	Rng	5.3-6.0	7.8-12	4.5-7.2	.19-.26	24-34	3.2-5.4	1.5-5.5	.4-4.0	.5-1.4	.2-.4	.1-.7	---	32-41	4-19	---	.8-3.6
	N	4	4	4	4	4	4	4	4	4	4	4	---	4	4	---	4
B1	Ave	5.6	5.7	3.3	.13	25.1	4.8	3.9	1.75	.95	.3	.45	---	27.3	12.5	---	1.8
	S D	.6	2.8	1.7	.04	5.5	.85	2.0	1.8	.9	.1	.2	---	.4	10.3	---	.1
	Rng	5.2-6.0	3.7-7.7	2.1-4.5	.10-.16	21-29	4.2-5.4	2.5-5.3	.5-3.0	.3-1.6	.2-.4	.3-.6	---	27-34	5-20	---	1.7-1.9
	N	2	2	2	2	2	2	2	2	2	2	2	---	2	2	---	2
B2	Ave	5.6	3.0	3.0	.07	18.5	5.0	2.3	1.1	.9	.2	.3	---	21.6	12.1	---	2.1
	S D	.4	2.5	2.8	.06	7.2	2.4	1.5	1.6	1.0	.1	.3	---	5.7	12.3	---	1.7
	Rng	5.1-6.0	.6-6.7	.3-7.2	.02-.16	10-26	3.2-7.7	1.0-4.0	.2-2.7	.2-2.7	.04-.3	.1-.9	---	15-27	4-33	---	.07-4.0
	N	5	5	5	5	5	3	3	5	5	5	5	---	5	5	---	3
B3	Ave	6.3	2.9	1.7	.07	27.45	7.2	2.65	6.35	2.5	.5	.8	---	28.95	35.0	---	3.2
	S D	.4	2.0	1.1	.06	6.6	3.8	.2	2.3	1.3	.1	.85	---	1.5	1.55	---	2.55
	Rng	6.0-6.6	1.5-4.3	.9-2.5	.03-.10	23-32	4.5-9.9	2.5-2.8	4.7-8.0	1.6-3.4	.4-.6	.2-1.4	---	28-30	34-36	---	1.4-5.0
	N	2	2	2	2	2	2	2	2	2	2	2	---	2	2	---	2
C	Ave	5.8	1.95	1.1	.04	27.0	5.2	2.1	3.2	1.8	.4	.4	---	28.3	18.8	---	2.0
	S D	.5	1.6	.9	.02	18.9	1.7	1.5	4.0	2.1	.3	.2	---	3.5	18.5	---	.4
	Rng	5.1-6.2	.5-4.1	.2-2.3	.02-.05	10-53	3.7-7.0	.5-3.5	.5-9.0	.3-4.8	.2-.8	.2-.6	---	25-33	9-46	---	.2-2.4
	N	4	4	4	4	4	3	3	4	4	4	4	---	4	4	---	3
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Astoria

TAXONOMIC NAME: Andic Haplumbrept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	----%	----------	----------	---% H_2O---	----------	(g/cc)
A11	Ave	18.6	12.9	45.9	41.2	---	---	31.1	---
	S D	5.0	2.5	8.3	6.8	---	---	.49	---
	Rng	15-25	9.1-16	36-56	32-47	---	---	30-32	---
	N	5	5	5	5	---	---	2	---
A12	Ave	17.8	14.1	48.2	37.7	82	72	27.2	---
	S D	4.2	3.7	8.8	5.5			2.3	---
	Rng	15-25	9.8-19	36-58	30-45			24-29	---
	N	4	4	4	4	1	1	4	---
B1	Ave	18.0	16.2	42.0	41.7	---	---	28.5	---
	S D	7.0	3.2	7.4	4.8	---	---	.38	---
	Rng	10-23	12-20	35-53	34-45	---	---	28-29	---
	N	3	4	4	4	---	---	4	---
B21	Ave	34.4	16.4	44.8	38.8	61	57	27.2	---
	S D	6.8	3.1	7.22	6.6			3.4	---
	Rng	28-43	12-22	37-56	28-45			22-30	---
	N	5	5	5	5	1	1	4	---
B22	Ave	31.5	20.2	40.9	38.8	---	---	28.7	---
	S D	5.1	4.8	4.64	2.1	---	---		---
	Rng	27-38	14-26	37-46	37-42	---	---		---
	N	4	4	4	4	---	---	1	---
B23	Ave	17.5	22.3	37.9	39.9	---	---	28.95	---
	S D	10.6	.14	1.6	1.5	---	---	1.48	---
	Rng	10-25	22-23	37-39	39-41	---	---	28-30	---
	N	2	2	2	2	---	---	2	---
B24	Ave	35	20.9	35.8	43.3	---	---	28.45	---
	S D	7.07	6.08	3.89	2.19	---	---	.64	---
	Rng	30-40	16-25	33-39	42-45	---	---	28-29	---
	N	2	2	2	2	---	---	2	---
B3	Ave	29.8	22.6	38.6	37.2	---	---	30.1	---
	S D	9.9	7.18	7.07	8.04	---	---	.38	---
	Rng	13-47	10-32	30-50	25-49	---	---	29-31	---
	N	6	6	6	6	---	---	3	---
C	Ave	35.7	26.3	36.0	37.6	---	---	29.6	---
	S D	13.8	20.9	9.1	15.0	---	---		---
	Rng	20-46	9-50	26-45	24-54	---	---		---
	N	3	3	3	3	---	---	1	---

SOIL SERIES: Astoria

TAXONOMIC NAME: Andic Haplumbrept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)		%			% H_2O		(g/cc)
Dr	Ave	22.7	34.5	32.1	33.7	---	---	29.0	---
	S D	2.5	15.0	12.0	11.56	---	---		---
	Rng	20-25	21-51	23-46	22-46	---	---		---
	N	3	3	3	3	---	---	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
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	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Astoria

TAXONOMIC NAME: Andic Haplumbrept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	---%				%	(ppm)	Meq/100g						(NH_4OAc)	(Σ Cat)	
A11	Ave	5.1	14.8	7.77	.1431	17.9	5.05	---	2.88	2.36	.51	1.1	44	49.8	5.5	5.05	1.2
	S D	.30	3.8	2.04	.07	1.92	.07	---	2.31	1.62	.103	.19	6.5	5.3	.7	.07	.93
	Rng	4.8-5.5	13-19	5.6-11	.35-.55	16-20	5.0-5.1	---	.4-4.4	.8-4.7	.4-.65	.8-1.3	39-49	45-55	5-6	5-5.1	.1-2.7
	N	4	3	5	5	5	2	---	5	5	4	5	2	3	2	2	5
A12	Ave	5.1	7.28	3.83	.230	17.7	5.2	---	2.18	1.1	.422	.47	39.9	33.5	3.5	6	1.2
	S D	.16	2.4	1.2	.093	4.6	---	---	4.26	.78	.167	.22	.14	7.8	.7	1.4	1.8
	Rng	4.9-5.3	4.5-9.2	2.5-4.7	.10-.33	14-26	5.2	---	.1-9.8	.3-2.3	.3-.61	.2-.8	39-40	26-41	3-4	5-7	.2-4.3
	N	5	3	5	5	5	2	---	5	5	5	5	2	3	2	2	5
B1	Ave	5.1	9.9	2.66	.119	22.25	5.0	---	.32	.73	.275	.375	40.7	34.2	4.5	4.5	.5
	S D	.14		2.2	.048	20	.15	---	.096	.30	.10	.17	1.4	11	.7	.7	.14
	Rng	5-5.3		.63-2.8	.06-.18	9-52	4.9-5.2	---	.2-.4	.3-1.0	.2-.4	.2-.6	39-43	26-42	4-5	4-5	.4-.7
	N	4	1	4	4	4	3	---	4	4	4	4	3	2	2	2	4
B21	Ave	5.12	1.88	1.29	.095	13.1	5.15	---	.254	1.3	.32	.28	44.3	29.8	4.5	6.5	.34
	S D	.19	1.1	.99	.05	6.22	.07	---	.095	1.4	.129	.08	2.83	6.9	3.5	3.5	.19
	Rng	4.8-5.3	.6-2.5	.3-2.8	.05-.18	6-22	5.1-5.2	---	.17-.4	.3-3.8	.2-.5	.2-.4	42-46	26-38	2-7	4-9	.05-.4
	N	5	3	5	5	5	2	---	5	5	5	5	2	3	2	2	5
B22	Ave	5.98	1.34	.58	.053	13.07	4.95	---	.30	2.45	.34	.24	44.0	31.3	4	7.5	.13
	S D	.096	.085	.23	.015	3.72	.07	---	.08	2.06	.18	.05	4.38	10.6		5	.12
	Rng	4.9-5.1	1.2-1.4	.32-.74	.04-.07	10-17	4.9-5	---	.2-.4	.5-5	.2-.57	.2-.3	41-47	24-39		4-11	.04-.3
	N	4	2	4	3	3	2	---	4	4	4	4	2	2	1	2	4
B23	Ave	5.05	---	.285	---	---	4.9	---	.35	1.95	.2	.25	43.5	---	---	6	.3
	S D	.21	---	.007	---	---	.07	---	.07	1.63	---	.07	6.2	---	---	2.8	.28
	Rng	4.9-5.2	---	.28-.29	---	---	4.8-4.9	---	.3-.4	.8-3.1	.2	.2-.3	39-48	---	---	4-8	.1-.5
	N	2	---	2	---	---	2	---	2	2	2	2	2	---	---	2	2
B24	Ave	5.05	---	.31	---	---	4.95	---	.25	2.3	.2	.3	43.5	---	---	6.5	.15
	S D	.35	---	.099	---	---	.07	---	.07	1.7	---	.14	6.92	---	---	3.5	.08
	Rng	.48-.53	---	.24-.38	---	---	4.9-5.0	---	.2-.3	1.1-3.5	.2	.2-.4	38-48	---	---	4-9	.09-.2
	N	2	---	2	---	---	2	---	2	2	2	2	2	---	---	2	2
B3	Ave	5.0	.74	.32	.044	10.4	5.6	---	.25	2.37	.29	.24	45.2	31.4	7.3	8	.067
	S D	.117	.25	.17	.011	3.9	1.4	---	.37	1.75	.10	.08	2.4	9.5	4.2	2.8	.045
	Rng	4.8-5.1	.5-1.0	.11-.6	.03-.05	6-13	4.5-7.2	---	.1-1	.8-4.7	.2-.4	.2-.4	43-48	22-41	4-12	6-10	.02-.12
	N	6	3	6	3	3	3	---	6	6	6	6	3	3	3	2	6
C	Ave	4.9	.4	.2	.04	5.5	---	---	.5	1.2	.28	.27	44.1	38.3	4.0	7	.3
	S D	.2	.14	.1	---	2.12	---	---	.56	.58	.04	.058		2.3	---		.28
	Rng	4.7-5.1	.3-.5	.11-.3	.04	4-7	---	---	.1-.9	.9-1.9	.23-3	.2-.3		37-40	4.0		.1-.5
	N	3	2	3	2	2	---	---	2	3	3	3	1	2	2	1	2

SOIL SERIES: Astoria

TAXONOMIC NAME: Andic Haplumbrept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	-----	---%---	-----		%	(ppm)	-----	-----	-----	--Meq/100g--	-----	-----	(NH_4OAc)	(Σ Cat)	
Dr	Ave	4.9	.3	.18	.03	6	3.5	---	.26	1.15	.29	.3	42.7	45.9	3	6	.21
	S D	.14		.03				---	.34	.35	.014	---					.27
	Rng	4.8-5.0		.16-.2				---	.02-.5	.9-1.4	.28-.3	.3					.02-.4
	N	2	1	2	1	1	1	---	2	2	2	2	1	1	1	1	2
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
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	Rng																
	N																

SOIL SERIES: Athena

TAXONOMIC NAME: Pachic Haploxeroll

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)		%			% H_2O		(g/cc)
A1	Ave	20.0	13.9	68.9	18.2		NO DATA AVAILABLE		
	S D								
	Rng								
	N	1	1	1	1				
A3	Ave	18.0	12.2	65.6	22.2		NO DATA AVAILABLE		
	S D								
	Rng								
	N	1	1	1	1				
B1	Ave	28.0	11.6	68.1	20.3		NO DATA AVAILABLE		
	S D								
	Rng								
	N	1	1	1	1				
B2	Ave	33.0	13.1	69.3	17.6		NO DATA AVAILABLE		
	S D								
	Rng								
	N	1	1	1	1				
B3	Ave	18.0	10.3	73.3	16.4		NO DATA AVAILABLE		
	S D								
	Rng								
	N	1	1	1	1				
B3Ca1	Ave	13.0	9.3	76.3	14.4		NO DATA AVAILABLE		
	S D								
	Rng								
	N	1	1	1	1				
B3Ca2	Ave	5.0	6.5	80.8	12.7		NO DATA AVAILABLE		
	S D								
	Rng								
	N	1	1	1	1				
C1	Ave	8.0	11.05	72.8	16.2		NO DATA AVAILABLE		
	S D		2.3	3.7	6.0				
	Rng		9-13	70-75	12-20				
	N	1	2	2	2				
C2	Ave	10.0	7.3	73.6	19.1		NO DATA AVAILABLE		
	S D								
	Rng								
	N	1	1	1	1				

SOIL SERIES: Athena

TAXONOMIC NAME: Pachic Haploxeroll

Horizon	Stat.	Horizon Thickness (cm)	Sand (%)	Silt (%)	Clay (%)	.10 Atm. (% H_2O)	.33 Atm. (% H_2O)	15 Atm. (% H_2O)	Bulk Density (g/cc)
C3	Ave	13.0	7.3	74.0	18.7	NO DATA AVAILABLE			
	S D	/	/	/	/				
	Rng								
	N	1	1	1	1				
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
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	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Athena TAXONOMIC NAME: Pachic Haploxeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	%----------			%	(ppm)	----------	----------	Meq/100g	----------	----------	----------	(NH4OAc)	(Σ Cat)	
A1	Ave	6.9	4.2	2.0	---	---	---	29.2	--------- NO DATA AVAILABLE ---------					25.0	---	---	---
	S D	1.0	2.5	/	---	---	---	20.0						/	---	---	---
	Rng	5.8-7.7	2.4-6.0	/	---	---	---	15-43						/	---	---	---
	N	3	2	1	---	---	---	2						1	---	---	---
A3	Ave	6.9	3.55	.9	---	---	---	16.25	--------- NO DATA AVAILABLE ---------					23.8	---	---	---
	S D	1.0	2.5	/	---	---	---	13.1						/	---	---	---
	Rng	6.1-8.0	1.8-5.3	/	---	---	---	7-26						/	---	---	---
	N	3	2	1	---	---	---	2						1	---	---	---
B1	Ave	6.8	---	.5	---------- NO DATA AVAILABLE ----------									21.9	---	---	---
	S D	/	---	/										/	---	---	---
	Rng	/	---	/										/	---	---	---
	N	1	---	1										1	---	---	---
B2	Ave	6.9	---	.3	---------- NO DATA AVAILABLE ----------									19.4	---	---	---
	S D	/	---	/										/	---	---	---
	Rng	/	---	/										/	---	---	---
	N	1	---	1										1	---	---	---
B3	Ave	6.9	---	.2	---------- NO DATA AVAILABLE ----------									19.4	---	---	---
	S D	/	---	/										/	---	---	---
	Rng	/	---	/										/	---	---	---
	N	1	---	1										1	---	---	---
B3Ca1	Ave	7.2	---	.1	---------- NO DATA AVAILABLE ----------									18.7	---	---	---
	S D	/	---	/										/	---	---	---
	Rng	/	---	/										/	---	---	---
	N	1	---	1										1	---	---	---
B3Ca2	Ave	8.0	---	.2	---	---	---	---	---	---	.7	.5	---	21.2	---	---	---
	S D	/	---	/	---	---	---	---	---	---	/	/	---	/	---	---	---
	Rng	/	---	/	---	---	---	---	---	---	/	/	---	/	---	---	---
	N	1	---	1	---	---	---	---	---	---	1	1	---	1	---	---	---
C1	Ave	7.7	---	.15	---	---	---	---	---	---	.7	.6	---	21.9	---	---	---
	S D	.7	---	.04	---	---	---	---	---	---	/	/	---	6.2	---	---	---
	Rng	7.2-8.2	---	.12-.18	---	---	---	---	---	---	/	/	---	18-26	---	---	---
	N	2	---	2	---	---	---	---	---	---	1	1	---	2	---	---	---
C2	Ave	8.1	---	.2	---	---	---	---	13.9	6.3	.8	.5	---	21.2	100.0	---	---
	S D	/	---	/	---	---	---	---	/	/	/	/	---	/	/	---	---
	Rng	/	---	/	---	---	---	---	/	/	/	/	---	/	/	---	---
	N	1	---	1	---	---	---	---	1	1	1	1	---	1	1	---	---

SOIL SERIES: Athena

TAXONOMIC NAME: Pachic Haploxeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	%				%	(ppm)	Meq/100g						(NH_4OAc)	(Σ Cat)	
C3	Ave	7.9	---	.2	----- NO DATA AVAILABLE ------				13.9	6.3	.8	.5	---	21.2	100.0	---	---
	S D	/	---	/					/	/	/	/	---	/	/	---	---
	Rng		---										---			---	---
	N	1	---	1					1	1	1	1	---	1	1	---	---
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
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SOIL SERIES: Awbrey (Awbrig)

TAXONOMIC NAME: Vertic Albaqualf

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	%----------		----------	% H_2O----------		(g/cc)
Ap	Ave	18.0	7.8	67.9	24.3	----------	NO DATA AVAILABLE		----------
	S D	/	/	/	/				
	Rng								
	N	1	1	1	1				
A2	Ave	10.0	7.4	66.8	25.9	----------	NO DATA AVAILABLE		----------
	S D	/	/	/	/				
	Rng								
	N	1	1	1	1				
B21t	Ave	20.0	8.3	42.0	49.8	----------	NO DATA AVAILABLE		----------
	S D	/	/	/	/				
	Rng								
	N	1	1	1	1				
B22t	Ave	40.0	12.1	41.4	46.5	----------	NO DATA AVAILABLE		----------
	S D	/	/	/	/				
	Rng								
	N	1	1	1	1				
B3t	Ave	33.0	12.8	39.9	47.4	----------	NO DATA AVAILABLE		----------
	S D	/	/	/	/				
	Rng								
	N	1	1	1	1				
C	Ave	30.0	8.5	32.3	59.4	----------	NO DATA AVAILABLE		----------
	S D	/	/	/	/				
	Rng								
	N	1	1	1	1				
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Awbrey (Awbrig) TAXONOMIC NAME: Vertic Albaqualf

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	---%				%	(ppm)	Meq/100g						(NH_4OAc)	(Σ Cat)	
Ap	Ave	5.6	3.4	2.1	.14	21.0	---	15.25	10.35	5.0	.35	.45	---	19.6	93.7	---	2.05
	S D	.1	---	---	.05	---	---	8.1	1.8	---	.07	.2	---	5.4	---	---	.35
	Rng	5.5-5.7	3.4	2.1	.10-.17	21.0	---	10-21	9-12	5.0	.3-.4	.3-.6	---	16-23	93.7	---	1.8-2.3
	N	2	2	2	2	2	---	2	2	2	2	2	---	2	2	---	2
A2	Ave	6.0	2.2	1.7	.11	---	---	6.0	10.9	6.15	.35	.3	---	18.7	98.7	---	1.75
	S D	.4	---	---	---	---	---	1.6	1.9	.2	.2	.1	---	3.3	---	---	.2
	Rng	5.7-6.3	2.2	1.7	.11	---	---	4.9-7.1	9.5-12.2	6.0-6.3	.2-.5	.2-.4	---	16-21	98.7	---	1.6-1.9
	N	2	2	2	2	---	---	2	2	2	2	2	---	2	2	---	2
B21t	Ave	6.1	1.0	.9	.05	---	---	2.45	17.85	13.25	1.1	.45	---	43.6	73.6	---	1.4
	S D	.1	---	---	---	---	---	.5	.35	2.5	.7	.07	---	4.8	---	---	.3
	Rng	6.0-6.2	1.0	.9	.05	---	---	2.1-2.8	17-18	11-15	.6-1.6	.4-.5	---	40-47	73.6	---	1.2-1.6
	N	2	2	2	2	---	---	2	2	2	2	2	---	2	2	---	2
B22t	Ave	6.65	.5	.4	.08	4.0	---	1.6	20.0	15.55	1.65	.5	---	42.15	97.3	---	1.3
	S D	.07	---	---	.04	---	---	.3	1.7	3.7	1.2	---	---	7.0	---	---	.4
	Rng	6.6-6.7	.5	.4	.05-.1	4.0	---	1.4-1.8	19-21	13-18	.8-2.5	.5	---	37-41	97.3	---	1.0-1.6
	N	2	2	2	2	2	---	2	2	2	2	2	---	2	2	---	2
B3t	Ave	6.8	.2	.3	---	---	---	4.1	19.5	14.9	1.4	.4	---	41.2	76.0	---	1.3
	S D	.4	---	---	---	---	---	2.8	3.3	2.1	.9	---	---	8.4	---	---	.4
	Rng	6.5-7.1	.2	.3	---	---	---	2.1-6.0	17-22	13-16	.8-2.0	.4	---	35-47	76.0	---	1.0-1.6
	N	2	2	2	---	---	---	2	2	2	2	2	---	2	2	---	2
C	Ave	7.0	.1	.3	.2	1.5	---	23.3	20.2	15.65	1.4	.5	---	41.7	82.0	---	1.4
	S D	1.0	---	---	---	---	---	30.0	2.6	6.9	1.0	.3	---	19.1	---	---	.4
	Rng	6.3-7.7	.1	.3	.2	1.5	---	2-44	18-22	11-21	.7-2.1	.3-.7	---	28-55	82.0	---	1.1-1.7
	N	2	2	2	2	2	---	2	2	2	2	2	---	2	2	---	2
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Ayres TAXONOMIC NAME: Xerollic Durargid

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density			
		(cm)		%			% H_2O		(g/cc)			
A1	Ave	11.5	57.45	27.3	10.25	27.6	20.2	8.95	---			
	S D	2.1	10.5	6.1	2.6	.6	1.6	1.2	---			
	Rng	10-13	50-65	23-32	8-12	27-28	19-21	8-10	---			
	N	2	2	2	2	2	2	2	---			
A3	Ave	9.0	55.0	30.2	14.85	30.9	22.9	11.2	---			
	S D	1.4	7.8	8.5	.6	.6	1.8	.6	---			
	Rng	8-10	49-60	24-36	14-16	30-31	21-24	10-12	---			
	N	2	2	2	2	2	2	2	---			
B1	Ave	14.0	45.5	30.0	24.6	34.4	25.5	14.9	---			
	S D	1.4	1.9	4.8	6.7	5.5	5.4	3.3	---			
	Rng	13-15	44-47	27-33	20-29	31-38	22-29	12-17	---			
	N	2	2	2	2	2	2	2	---			
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
	N											

SOIL SERIES: Ayres

TAXONOMIC NAME: Xerollic Durargid

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	------------%------------				%	(ppm)	------------------------------Meq/100g------------------------------						(NH_4OAc)	(Σ Cat)	
A1	Ave	6.7	1.7	.7	.06	11.7	---	14.5	8.5	5.7	.35	1.2	2.6	18.0	85.5	---	1.6
	S D	.2		.05	.006	.4	---		1.6	1.3	.07	.4	---	2.6	.7	---	.6
	Rng	6.4-6.8		.6-.7	.05-.07	11-12	---		7.3-9.6	4.7-6.6	.3-.4	.9-1.5	2.6	16-20	85-86	---	1.1-2.0
	N	3	1	2	2	2	---	1	2	2	2	2	2	2	2	---	2
A3	Ave	6.9	1.4	.6	.06	9.5	---	5.0	11.3	6.1	.4	1.0	3.2	23.9	85.5	---	1.9
	S D	.2		.03	.001	.7	---		.35	.7	.3	.3	.2	.4	.7	---	.3
	Rng	6.7-7.1		.5-.6	.06-.07	9-10	---		11-12	5.6-6.6	.2-.6	.8-1.2	3.0-3.3	23-24	85-86	---	1.7-2.1
	N	3	1	2	2	2	---	1	2	2	2	2	2	2	2	---	2
B1	Ave	7.2	---	.5	.06	8.8	---	---	17.7	10.2	.85	1.1	2.6	33.8	92.0	---	1.7
	S D	.07	---	.2	.02	.35	---	---	5.8	1.9	.07	.5	.35	9.2	1.4	---	.3
	Rng	7.1-7.2	---	.4-.7	.04-.07	8.5-9	---	---	13-22	8-12	.8-.9	.7-1.4	2.3-2.8	27-40	91-93	---	1.5-1.9
	N	2	---	2	2	2	---	---	2	2	2	2	2	2	2	---	2
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
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	S D																
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	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Baker

TAXONOMIC NAME: Orthidic Durixeroll

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density			
		(cm)		%			% H_2O		(g/cc)			
	Ave				NO AVAILABLE DATA							
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
	N											

SOIL SERIES: Baker

TAXONOMIC NAME: Orthidic Durixeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	-------------%-------------				%	(ppm)	-----------------------Meq/100g-----------------------						(NH_4OAc)	(Σ Cat)	
A1 (0-15 cm)	Ave	7.6	3.1	---	.13	---	---	9.6	9.85	3.82	---	2.48	---	17.17	---	---	---
	S D	1.27	.42	---		---	---	3.4			---		---		---	---	---
	Rng	6.7-8.5	2.8-3.4	---		---	---	7-12			---		---		---	---	---
	N	2	2	---	1	---	---	2	1	1	---	1	---	1	---	---	---
A2 (15-30 cm)	Ave	8.4	3.5	---	---	---	---	5.0	---	---	---	---	---	---	---	---	---
	S D			---	---	---	---		---	---	---	---	---	---	---	---	---
	Rng			---	---	---	---		---	---	---	---	---	---	---	---	---
	N	1	1	---	---	---	---	1	---	---	---	---	---	---	---	---	---
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
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	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Barlow

TAXONOMIC NAME: Typic Cryorthod

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density			
		(cm)		%			% H_2O		(g/cc)			
A2	Ave	4.0	45.9	50.2	4.0	NO AVAILABLE DATA						
	S D	/	/	/	/							
	Rng											
	N	1	1	1	1							
B2ir	Ave	19.0	33.8	57.9	5.8	NO AVAILABLE DATA						
	S D	/	/	/	/							
	Rng											
	N	1	1	1	1							
B3ir	Ave	27.0	35.0	61.9	3.2	NO AVAILABLE DATA						
	S D	/	/	/	/							
	Rng											
	N	1	1	1	1							
IIC	Ave	25.0	58.8	36.4	4.8	NO AVAILABLE DATA						
	S D	/	/	/	/							
	Rng											
	N	1	1	1	1							
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
	N											

SOIL SERIES: Barlow

TAXONOMIC NAME: Typic Cryorthod

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---	----------		%	(ppm)	----------	----------	--Meq/100g--	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
A2	Ave	4.7	4.0	2.3	.1	21.9	.1	14.8	.6	.3	.3	.1	---	7.1	19.2	---	2.0
	S D	/	/	/	/	/	/	/	/	/	/	/	---	/	/	---	/
	Rng												---			---	
	N	1	1	1	1	1	1	1	1	1	1	1	---	1	1	---	1
B21r	Ave	5.1	6.0	3.5	.1	30.1	.3	6.8	.1	.1	.1	.1	---	17.1	2.4	---	1.0
	S D	/	/	/	/	/	/	/	/	/	/	/	---	/	/	---	/
	Rng												---			---	
	N	1	1	1	1	1	1	1	1	1	1	1	---	1	1	---	1
B31r	Ave	5.4	3.2	1.9	.6	29.8	.3	5.5	.1	.1	.1	.1	---	7.8	3.8	---	1.0
	S D	/	/	/	/	/	/	/	/	/	/	/	---	/	/	---	/
	Rng												---			---	
	N	1	1	1	1	1	1	1	1	1	1	1	---	1	1	---	1
IIC	Ave	5.4	7.0	4.1	.1	33.2	.8	3.8	.1	.1	.1	---	---	18.5	1.8	---	1.0
	S D	/	/	/	/	/	/	/	/	/	/	---	---	/	/	---	/
	Rng											---	---			---	
	N	1	1	1	1	1	1	1	1	1	1	---	---	1	1	---	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Barron

TAXONOMIC NAME: Typic Xerochrept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	------------	%	------------	------------	% H_2O	------------	(g/cc)
A_1	Ave	6	---	---	21.3	---	---	---	---
	S D	---	---	---		---	---	---	---
	Rng	6	---	---		---	---	---	---
	N	2	---	---	1	---	---	---	---
A_2	Ave	8.0	---	---	---	---	---	---	---
	S D	2.8	---	---	---	---	---	---	---
	Rng	6-10	---	---	---	---	---	---	---
	N	2	---	---	---	---	---	---	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
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	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Barron

TAXONOMIC NAME: Typic Xerochrept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	---------	%	---------		%	(ppm)	---------	---------	---------	Meq/100g	---------	---------	(NH_4OAc)	(Σ Cat)	
A_1	Ave	5.85	2.96	---	.21	---	---	22.4	8.1	2.9	.05	.40	2.5	13.2	100	71.6	3.0
	S D	.78	2.1	---		---	---	23.5	5.0	2.3		.05		9.9			.71
	Rng	5.3-6.4	1.6-5.4	---		---	---	6-39	5-12	1.3-4.6		.3-.5		6-20			2.5-3.5
	N	2	3	---	1	---	---	2	2	2	1	2	1	2	1	1	2
A_2	Ave	5.2	1.0	---	---	---	---	53.0	3.4	2.3	.07	.2	1.8	6.2	96.3	76.8	2.9
	S D			---	---	---	---										
	Rng			---	---	---	---										
	N	1	1	---	---	---	---	1	1	1	1	1	1	1	1	1	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
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	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Bashaw TAXONOMIC NAME: Typic Pelloxerert

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	%----------		----------	% H_2O----------		(g/cc)
Ap	Ave	12.0	7.4	39.2	52.6	---	---	26.3	---
	S D	1.9	4.9	11.6	9.7	---	---		---
	Rng	8-13	.9-12.6	19-55	37-61	---	---		---
	N	8	12	12	12	---	---	1	---
A12	Ave	24.5	5.3	33.7	62.7	---	45.7	27.5	1.8
	S D	17.0	3.8	10.2	11.7	---			
	Rng	13-48	1.8-10.7	16-48	50-82	---			
	N	8	6	6	6	---	1	1	1
A13	Ave	28.2	5.3	31.7	62.7	---	---	---	---
	S D	11.8	3.8	10.0	9.5	---	---	---	---
	Rng	15-40	.6-11.3	18-46	49-78	---	---	---	---
	N	6	7	7	7	---	---	---	---
A14	Ave	38.0	6.35	31.8	56.9	---	---	---	---
	S D		.5	5.1	1.5	---	---	---	---
	Rng		6.0-6.7	28-35	56-58	---	---	---	---
	N	1	2	2	2	---	---	---	---
AC1	Ave	28.1	8.0	32.5	59.5	---	48.6	27.6	2.0
	S D	10.5	7.1	6.4	2.9	---			
	Rng	13-43	4-20	22-40	57-65	---			
	N	7	5	5	5	---	1	1	1
AC2	Ave	33.6	7.25	42.0	50.75	---	---	27.9	---
	S D	12.8	.8	7.7	8.4	---	---		---
	Rng	15-50	6.7-7.8	36-48	44-57	---	---		---
	N	7	2	2	2	---	---	1	---
Bb	Ave	20.0	7.0	50.0	42.0	---	---	---	---
	S D					---	---	---	---
	Rng					---	---	---	---
	N	1	1	1	1	---	---	---	---
C1	Ave	46.0	5.9	27.0	63.6	---	---	---	---
	S D	23.1	4.4	11.5	8.7	---	---	---	---
	Rng	33-73	1.3-12.7	11-39	57-82	---	---	---	---
	N	3	8	8	8	---	---	---	---
C2	Ave	41.5	16.5	32.0	52.1	---	---	25.5	---
	S D	12.0	10.9	13.5	13.9	---	---		---
	Rng	33-50	12-32	15-47	41-72	---	---		---
	N	2	4	4	4	---	---	1	---

SOIL SERIES: Bashaw TAXONOMIC NAME: Typic Pelloxerert

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	%----------			%	(ppm)	----------	----------	Meq/100g	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
Ap	Ave	5.5	6.5	3.8	---	---	---	7.0	14.2	9.2	.2	.8	11.5	38.1	61.9	---	2.2
	S D	.4	2.4	1.5	---	---	---	/	6.9	5.4	.1	.6	/	7.3	20.3	---	1.9
	Rng	4.7-6.3	2.5-12.6	1.4-7.3	---	---	---	/	7-34	2-18	.1-.4	.3-2.4	/	28-52	36-105	---	.7-5.9
	N	12	12	10	---	---	---	1	12	12	4	12	1	12	12	---	11
A12	Ave	5.95	2.6	1.6	---	---	---	---	16.4	13.3	.2	.5	9.0	42.8	66.7	---	1.3
	S D	.4	.8	.4	---	---	---	---	9.0	5.9	.2	.1	/	9.5	11.8	---	.6
	Rng	5.4-6.6	1.6-3.4	1.0-2.0	---	---	---	---	9-34	8-21	.1-.5	.3-.7	/	27-53	52-85	---	.6-2.3
	N	6	6	4	---	---	---	---	6	6	4	6	1	6	6	---	5
A13	Ave	6.1	1.9	1.2	---	---	---	---	14.6	11.5	.1	.6	---	41.2	63.7	---	1.8
	S D	.6	.8	.5	---	---	---	---	3.6	6.9	---	.3	---	7.3	12.8	---	1.3
	Rng	5.5-6.9	1.3-3.5	.7-2.0	---	---	---	---	8-20	3-23	.1	.3-1.3	---	33-52	38-76	---	.6-4.5
	N	7	7	6	---	---	---	---	7	7	2	7	---	7	7	---	7
A14	Ave	5.4	1.6	.925	---	---	---	---	11.4	6.75	.2	.65	---	34.4	55.1	---	1.7
	S D	.6	1.1	.7	---	---	---	---	.6	1.2	/	.35	---	1.1	2.1	---	.4
	Rng	5.0-5.8	.8-2.4	.5-1.4	---	---	---	---	11-11.8	5.9-7.6	/	.4-.9	---	33-35	34-57	---	1.4-2.0
	N	2	2	2	---	---	---	---	2	2	1	2	---	2	2	---	2
AC1	Ave	6.9	1.25	.6	---	---	---	3.0	18.6	11.3	.3	.5	5.4	42.4	66.2	---	1.75
	S D	.4	.5	.1	---	---	---	/	9.7	5.7	.4	.1	/	6.5	16.3	---	.6
	Rng	6.5-7.4	.7-2.2	.4-.7	---	---	---	/	10-35	5-20	.1-.7	.3-.6	/	35-44	45-91	---	1.2-2.4
	N	5	5	4	---	---	---	1	5	5	3	5	1	5	5	---	4
AC2	Ave	7.65	.955	.4	---	---	---	2.0	27.4	16.2	.55	.45	.25	47.9	83.6	---	1.6
	S D	.2	.4	/	---	---	---	/	13.9	5.3	.6	.21	/	6.9	17.3	---	.3
	Rng	7.5-7.8	.7-1.2	/	---	---	---	/	17-37	12-20	.1-1.0	.3-.6	/	43-53	71-96	---	1.4-1.8
	N	2	2	1	---	---	---	1	2	2	2	2	1	2	2	---	2
Bb	Ave	7.5	.3	.2	---	---	---	---	18.0	11.6	.1	.5	---	37.6	80.0	---	1.6
	S D	/	/	/	---	---	---	---	/	/	/	/	---	/	/	---	/
	Rng	/	/	/	---	---	---	---	/	/	/	/	---	/	/	---	/
	N	1	1	1	---	---	---	---	1	1	1	1	---	1	1	---	1
C1	Ave	6.7	.75	.5	---	---	---	---	16.4	10.3	.15	.6	---	45.4	60.1	---	1.9
	S D	.9	.35	.2	---	---	---	---	4.8	6.3	.06	.2	---	9.7	14.7	---	.5
	Rng	5.0-7.7	.4-1.4	.2-.8	---	---	---	---	11-24	5-25	.1-.2	.4-.9	---	34-60	41-85	---	.7-2.4
	N	8	8	7	---	---	---	---	8	8	4	8	---	8	8	---	8
C2	Ave	7.2	.5	.3	---	---	---	2.0	21.25	13.5	.4	.5	1.4	43.1	77.7	---	1.5
	S D	.7	.15	.1	---	---	---	/	8.7	4.4	.6	.15	/	3.5	13.2	---	.15
	Rng	6.3-8.0	.4-.7	.2-.4	---	---	---	/	17-33	10-20	.1-1.1	.3-.6	/	40-48	70-98	---	1.4-1.7
	N	4	4	3	---	---	---	1	4	4	3	4	1	4	4	---	3

SOIL SERIES: Bellpine

TAXONOMIC NAME: Xeric Haplohumult

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	%	----------	----------	% H_2O	----------	(g/cc)
A1	Ave	13.2	14.3	43.8	41.9	---	---	---	---
	S D	3.2	4.2	7.4	4.0	---	---	---	---
	Rng	3-18	8-21	35-55	36-47	---	---	---	---
	N	17	6	6	6	---	---	---	---
A3	Ave	16.7	11.0	50.1	38.9	---	---	---	---
	S D	1.2	3.3	3.89	.63	---	---	---	---
	Rng	16-18	8-13	47-53	38-40	---	---	---	---
	N	3	2	2	2	---	---	---	---
B1	Ave	16	---	---	---	---	---	---	---
	S D	7.6	---	---	---	---	---	---	---
	Rng	8-26	---	---	---	---	---	---	---
	N	6							
B21t	Ave	18.5	6.4	44.0	49.7	---	---	---	---
	S D	2.1	.28	2.8	3.0	---	---	---	---
	Rng	17-20	6.2-6.6	42-46	47-52	---	---	---	---
	N	2	2	2	2	---	---	---	---
B22t	Ave	19.0	12.5	39.2	48.3	---	---	---	---
	S D	4.0	4.0	2.5	3.7	---	---	---	---
	Rng	13-22	5-17	35-45	43-53	---	---	---	---
	N	6	6	6	6	---	---	---	---
B23t	Ave	21.3	14.8	33.9	51.3	---	---	---	---
	S D	3.4	2.1	2.3	3.7	---	---	---	---
	Rng	18-26	12-18	30-36	46-56	---	---	---	---
	N	4	4	4	4	---	---	---	---
IIB2t	Ave	22.1	---	---	---	---	---	---	---
	S D	5.0	---	---	---	---	---	---	---
	Rng	18-30	---	---	---	---	---	---	---
	N	7	---	---	---	---	---	---	---
IIB3t	Ave	19.4	---	---	---	---	---	---	---
	S D	6.4	---	---	---	---	---	---	---
	Rng	13-25	---	---	---	---	---	---	---
	N	3	---	---	---	---	---	---	---
IIC	Ave	38	15.3	42.5	42.3	---	---	---	---
	S D	20.7	9.1	5.6	8.5	---	---	---	---
	Rng	25-65	8-29	36-50	32-56	---	---	---	---
	N	11	6	6	6	---	---	---	---

SOIL SERIES: Bellpine

TAXONOMIC NAME: Xeric Haplohumult

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---	----------		%	(ppm)	----------	----------	Meq/100g	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
A1	Ave	5.4	7.05	4.3	.25	18.1	8.4	---	10.3	5.1	.12	1.26	18.0	27.7	38	46.6	1.9
	S D	.32	2.7	1.6	.02	2.7	2.5	---	8.1	2.9	.23	1.19	2.6	4.9	15	19	.77
	Rng	4.8-5.7	3-15	2-8.5	.22-.27	15-22	5-11	---	1.4-32	1.3-9.2	0-1	.2-5.1	14-22	23-36	16-54	15-67	.08-3.6
	N	8	18	16	6	6	6	---	18	18	18	18	10	6	6	12	18
A3	Ave	5.45	5.18	2.99	.18	17.5	6.2	---	9.5	4.9	.34	1.6	19.8	25.4	42.5	51.4	2.0
	S D	.5	.81	.48	.04	2.0	.70	---	5.6	2.3	.44	.96	.14	1.6	23	10	1.0
	Rng	5.1-5.8	4.2-6.1	2.4-3.5	.15-.2	16-19	5.7-6.7	---	3-17	2.8-7.4	.1-1	.9-3	20-21	24-27	26-59	44-59	1.1-3.3
	N	2	4	4	2	2	2	---	4	4	4	4	1	2	2	2	2
B1	Ave	4.8	3.49	1.88	---	---	---	---	9.8	5.9	.03	1.1	16.7	20	13	46.4	1.5
	S D		1.1	.6	---	---	---	---	6.9	2.6	.05	.8	3.1			18.5	.63
	Rng		1.8-4.8	1-2.5	---	---	---	---	1-19	1.5-9	0-.1	.1-2.4	11-21			13-65	.7-2.3
	N	1	7	6	---	---	---	---	6	6	6	6	6	1	1	6	6
B21t	Ave	5.5	2.35	1.4	.08	16.95	7.5	---	5.85	3.8	.115	.77	---	27.1	37.8	---	1.5
	S D	.42	.5	.28	.014	.35	.14	---	4.9	.28	.02	.18	---	4.4	13.7	---	1.1
	Rng	5.2-5.8	2-2.7	1.2-1.6	.07-.09	16-17	7.4-7.6	---	2-9	2.6-4	.1-.13	.64-.89	---	24-30	28-48	---	.7-2.3
	N	2	2	2	2	2	2	---	2	2	2	2	---	2	2	---	2
B22t	Ave	5.2	2.1	1.2	.09	13.2	9.8	---	2.5	1.9	.11	.28	---	23.1	19.7	---	1.3
	S D	.21	1.0	.60	.04	2.2	2.0	---	2.0	1.1	.02	.31	---	3.25	10.9	---	.41
	Rng	4.9-5.5	.8-3.3	.4-1.9	.04-.12	11-16	7-12	---	.6-6.1	.6-3.4	.1-.15	.08-.72	---	20-30	7-35	---	.8-1.8
	N	6	6	6	6	6	6	---	6	6	6	6	---	6	6	---	6
B23t	Ave	5.0	1.7	.98	.07	14.0	10.7	---	.98	1.0	.12	.06	---	48	10	---	.9
	S D	.17	.39	.22	.014	1.7	.80	---	1.0	.59	.03	.02	---	4.5	8.1	---	.53
	Rng	4.8-5.2	1.3-2.1	.9-1.2	.06-.09	13-16	10-12	---	.3-2.5	.5-1.8	.09-.15	.04-.08	---	20-28	5-22	---	.3-1.4
	N	4	4	4	4	4	4	---	4	4	4	4	---	4	4	---	4
IIB2t	Ave	---	1.26	.73	---	---	---	---	7.4	6.5	.15	.59	19.6	---	---	38.1	1.0
	S D	---	.64	.37	---	---	---	---	6.9	3.9	.34	.40	7.0	---	---	16.9	.4
	Rng	---	.4-2.3	.2-1.3	---	---	---	---	1-23	2-13	0-1	.101.4	13-33	---	---	20-71	.6-1.8
	N	---	8	8	---	---	---	---	8	8	8	8	8	---	---	8	8
IIB3t	Ave	---	.7	.41	---	---	---	---	12.3	11.25	.40	.53	25.5	---	---	48.4	1.0
	S D	---	.28	.17	---	---	---	---	9.0	4.3	.42	.096	10.6	---	---	20.4	.4
	Rng	---	.5-1.1	.29-.64	---	---	---	---	6-16	7-16	.1-1	.4-.6	16-39	---	---	27-71	.8-1.6
	N	---	4	4	---	---	---	---	4	4	4	4	4	---	---	4	4
IIC	Ave	5.2	.57	.34	.045	12.9	9.5	---	5.1	5.6	.47	.28	20.9	25.3	12.4	44.5	.9
	S D	.3	.47	.28	.02	6.8	2.8	---	7.9	7.0	.44	.21	11.5	6.7	8.9	24	.5
	Rng	4.8-5.6	0-1.7	0-1	.02-.07	3-24	5-13	---	.3-28	.5-24	.09-1	.04-.57	11-42	17-36	4-26	23-79	.4-1.3
	N	7	12	6	6	6	---	12	12	12	12	2	6	6	6	6	12

SOIL SERIES: Blachly

TAXONOMIC NAME: Umbric Dystrochrept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	%----------		----------	% H_2O----------		(g/cc)
A1	Ave	12.8	20.8	40.4	39.0	57.3	46.2	27.6	.65
	S D	7.2	8.8	10.4	14.1	8.2	5.6	6.3	.07
	Rng	6-25	11-32	30-57	24-50	46-66	40-50	19-35	.6-.7
	N	5	5	5	5	4	3	4	2
A3	Ave	14.7	17.3	38.5	44.2	42.8	31.6	24.8	---
	S D	8.5	7.5	8.1	12.5	15.1	3.3	7.1	---
	Rng	6-25	10-28	32-49	31-58	32-60	29-34	18-32	---
	N	4	4	4	4	3	2	3	---
B1	Ave	20.7	13.4	27.7	56.3	57.0	52.6	29.9	.9
	S D	3.8	2.2	1.9	4.4	2.3			.09
	Rng	18-25	10-16	26-30	50-60	55-59			.8-1.0
	N	3	4	4	4	2	1	1	2
B21	Ave	24.2	15.1	32.1	53.0	36.3	33.1	22.5	1.0
	S D	8.1	5.5	8.6	11.6	6.6	5.5	3.8	
	Rng	17-33	10-26	22-45	39-65	30-43	27-38	18-25	
	N	5	5	5	5	3	3	3	1
B22	Ave	26.4	16.0	30.5	53.5	33.7	30.9	21.2	---
	S D	5.9	3.7	7.3	7.4	5.9	5.6	4.2	---
	Rng	18-33	11-21	23-42	46-63	29-38	27-35	18-24	---
	N	5	5	5	5	2	2	2	---
B23	Ave	37.5	18.25	24.1	57.7	37.6	---	25.0	1.2
	S D	3.6	3.0	4.9	7.6		---		
	Rng	12-63	16-20	20-28	52-63		---		
	N	2	2	2	2	1	---	1	1
B31	Ave	29.2	19.6	31.3	48.1	38.2	32.5	23.7	---
	S D	12.1	11.2	6.3	12.8	1.3	4.7	2.7	---
	Rng	14-30	10-39	22-39	29-62	37-39	29-36	21-26	---
	N	4	5	5	5	2	2	2	---
B32	Ave	30.0	14.3	34.8	51.3	37.8	33.2	23.2	---
	S D	10.3	5.4	10.5	5.6	3.4	4.6	3.7	---
	Rng	25-43	8-18	27-47	45-56	35-40	30-36	21-26	---
	N	3	3	3	3	2	2	2	---
B33	Ave	25.7	20.3	33.0	53.4	42.4	36.7	23.9	---
	S D	4.0	2.7	8.8	17.1	7.4	8.3	2.1	---
	Rng	22-30	18-23	24-42	35-68	37-48	31-43	22-25	---
	N	3	3	3	3	2	2	2	---

SOIL SERIES: Blachly

TAXONOMIC NAME: Umbric Dystrochrept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)		%			% H_2O		(g/cc)
C	Ave	33.7	24.2	36.7	39.1	42.5	36.5	22.1	---
	S D	20.7	6.2	11.6	14.5	12.1	11.3	3.4	---
	Rng	15-56	15-28	21-47	26-52	34-51	28-45	20-25	---
	N	3	4	4	4	2	2	2	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
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	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Blachly TAXONOMIC NAME: Umbric Dystrochrept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----	---%	----		%	(ppm)	----	----	Meq/100g	----	----	----	(NH_4OAc)	(Σ Cat)	
A1	Ave	5.3	---	8.4	.4	26.2	5.7	---	5.8	2.7	.3	1.1	43.7	39.0	24.8	---	2.1
	S D	.3	---	2.2	.2	12.2	2.3	---	3.2	1.2	.1	.5	10.9	4.9	12.9	---	.65
	Rng	4.7-5.6	---	6.4-12	.2-.7	14-45	4-8	---	2-9	1-4	.2-.5	.6-1.7	32-53	33-44	11-40	---	1.3-3.1
	N	5	---	5	5	5	2	---	5	5	5	5	3	4	5	---	5
A3	Ave	5.1	---	4.25	.2	20.1	7.6	---	2.3	1.4	.2	.7	30.7	28.7	14.9	---	1.5
	S D	.4	---	2.9	.08	10.1	3.7	---	2.3	.9	.1	.3	4.7	9.1	8.3	---	.6
	Rng	4.7-5.5	---	1.1-6.9	.09-.3	11-33	4-10	---	.7-5.6	.65-2.7	.1-.3	.2-.9	27-36	23-39	5-24	---	.7-2.1
	N	4	---	4	4	4	2	---	4	4	4	4	3	3	4	---	4
B1	Ave	5.65	---	2.1	.2	19.2	---	---	1.5	.9	.3	.4	21.4	20.4	16.0	---	1.8
	S D	.3	---	1.0	.02	2.1	---	---	1.1	.6	.08	.35	/	6.5	9.0	---	.7
	Rng	5.4-6.0	---	1-3	.1-.3	16-22	---	---	.4-3.1	.4-1.8	.15-.3	.1-.9	/	16-28	5-27	---	.9-2.6
	N	4	---	4	4	4	---	---	4	4	4	4	1	3	4	---	4
B21	Ave	5.4	---	1.0	.08	12.2	7.7	---	1.8	.9	.2	.5	21.4	19.8	16.8	---	3.4
	S D	.5	---	.5	.04	1.8	3.5	---	1.8	.6	.2	.4	4.5	2.6	12.6	---	3.7
	Rng	4.7-6.1	---	.6-1.6	.04-.1	10-15	5.2-10	---	.4-5.0	.2-1.8	.07-.6	.07-1.0	18-27	16-22	4-38	---	1.3-10.0
	N	5	---	4	4	4	2	---	5	5	5	5	3	4	5	---	5
B22	Ave	5.3	---	.6	.06	10.3	8.15	---	1.8	1.1	.1	.3	20.8	17.8	18.4	---	1.6
	S D	5.2	---	.3	.03	2.0	3.7	---	1.7	.8	.05	.25	6.3	4.1	14.1	---	.5
	Rng	4.6-6.0	---	.3-.9	.02-.1	8-12	5-11	---	.6-4.8	.4-2.5	.1-.2	.1-.7	15-28	12-22	7-43	---	1.0-3.3
	N	5	---	4	4	4	2	---	5	5	5	5	3	4	5	---	5
B23	Ave	5.65	---	.25	.03	9.65	---	---	.85	.3	.1	.1	6.0	10.9	16.0	---	2.5
	S D	.07	---	.07	---	2.3	---	---	.6	.1	---	.08	/	/	3.0	---	1.2
	Rng	5.6-5.7	---	.2-.3	.03	8-11	---	---	.4-1.3	.25-.40	.1	.08-.2	/	/	14-18	---	1.6-3.3
	N	2	---	2	2	2	---	---	2	2	2	2	1	1	2	---	2
B31	Ave	5.2	---	.295	.03	7.8	8.9	---	1.6	1.1	.2	.2	21.0	19.7	15.4	---	1.5
	S D	.5	---	.15	.02	1.6	3.8	---	1.2	.75	.08	.2	3.0	1.7	11.4	---	.5
	Rng	4.6-5.7	---	.3-.5	02-.07	6-10	6-12	---	.6-3.3	.4-2.3	.1-.3	.1-.5	19-25	18-22	6-34	---	.9-2.2
	N	5		3	4	4	2	---	5	5	5	5	5	4	5	---	4
B32	Ave	4.8	---	.195	.03	6.9	9.1	---	1.7	1.4	.2	.2	21.25	19.7	17.6	---	1.2
	S D	.3	---	.09	.03	2.5	3.4	---	1.0	.6	.15	.1	1.1	2.5	6.0	---	.35
	Rng	4.6-5.2	---	.1-.3	.01-.05	5-9	6-12	---	.7-2.6	.7-1.8	.1-.4	.1-.3	20-22	17-22	10-22	---	1.0-1.6
	N	3	---	2	2	2	2	---	3	3	3	3	2	3	3	---	3
B33	Ave	4.9	---	.1	.02	5.7	10.1	---	1.4	1.2	.2	.2	21.7	18.2	16.2	---	1.2
	S D	.6	---	.06	.02	1.4	4.8	---	.6	.35	.1	.06	2.2	1.7	3.2	---	.2
	Rng	4.4-5.5	---	.08-.16	.01-.04	4.7-6.7	7-14	---	.8-1.9	.8-1.4	.1-.3	.1-.3	20-23	16-20	13-19	---	1.0-1.4
	N	3	---	2	2	2	2	---	3	3	3	3	2	3	3	---	3

SOIL SERIES: Blachly

TAXONOMIC NAME: Umbric Dystrochrept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	----%----	----------		%	(ppm)	----------	----------	----------	--Meq/100g--	----------	----------	(NH_4OAc)	(Σ Cat)	
C	Ave	4.8	---	.095	.02	6.3	9.4	---	1.0	1.4	.2	.17	19.0	18.3	16.4	---	.8
	S D	.5	---	.02	.009	2.4	5.8	---	.7	.6	.15	.06	8.0	1.3	4.6	---	.1
	Rng	4.4-5.4	---	.08-.11	.01-.03	4.6-8.0	5-14	---	.2-1.5	.8-1.9	.1-.4	.1-.2	13-25	17-20	11-20	---	.7-.9
	N	3	---	2	2	2	2	---	3	3	3	3	2	3	3	---	3
	Ave																
	S D																
	Rng																
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SOIL SERIES: Blacklock

TAXONOMIC NAME: Typic Sideraquod

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	%	----------	----------	% H_2O	----------	(g/cc)
1	Ave	NO DATA AVAILABLE	73.2	22.8	3.8	---	---	11.6	---
	S D		/	/	/	---	---	/	---
	Rng					---	---		---
	N		1	1	1	---	---	1	---
2	Ave	NO DATA AVAILABLE	---	---	---	---	---	---	---
	S D		---	---	---	---	---	---	---
	Rng		---	---	---	---	---	---	---
	N		---	---	---	---	---	---	---
3	Ave	NO DATA AVAILABLE	71.9	24.7	3.3	---	---	1.2	---
	S D		/	/	/	---	---	/	---
	Rng					---	---		---
	N		1	1	1	---	---	1	---
4	Ave	NO DATA AVAILABLE	81.3	15.1	3.6	---	---	5.4	---
	S D		/	/	/	---	---	/	---
	Rng					---	---		---
	N		1	1	1	---	---	1	---
5	Ave	NO DATA AVAILABLE	90.9	8.4	.8	---	---	4.0	---
	S D		/	/	/	---	---	/	---
	Rng					---	---		---
	N		1	1	1	---	---	1	---
6	Ave	NO DATA AVAILABLE	95.6	3.6	.8	---	---	1.4	---
	S D		/	/	/	---	---	/	---
	Rng					---	---		---
	N		1	1	1	---	---	1	---
7	Ave	NO DATA AVAILABLE	73.2	23.1	3.6	---	---	4.6	---
	S D		/	/	/	---	---	/	---
	Rng					---	---		---
	N		1	1	1	---	---	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Blacklock

TAXONOMIC NAME: Typic Sideraquod

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---	----------		%	(ppm)	----------	----------	--Meq/100g--	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
	Ave S D Rng N	NO DATA AVAILABLE															
	Ave S D Rng N																
	Ave S D Rng N																
	Ave S D Rng N																
	Ave S D Rng N																
	Ave S D Rng N																
	Ave S D Rng N																
	Ave S D Rng N																
	Ave S D Rng N																

SOIL SERIES: Boardtree

TAXONOMIC NAME: Typic Vitrandept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	---%---	----------	----------	---% H_2O---	----------	(g/cc)
A1	Ave	4"	35.6	5.19	12.5	---	---	10.57	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
AC	Ave	5"	35.8	51.3	12.9	---	---	9.65	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
C1	Ave	7"	35.3	51.1	13.6	---	---	10.05	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
C2	Ave	15"	35.9	50.9	13.2	---	---	9.84	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
B2tb	Ave	11"	29.4	38.8	31.8	---	---	17.50	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Boardtree

TAXONOMIC NAME: Typic Vitrandept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	-------	---%---	-------		%	(ppm)	-------	-------	---Meq/100g---	-------	-------	-------	(NH_4OAc)	(Σ Cat)	
A1	Ave	6.1	---	1.4	0.08	17.5	---	---	9.6	3.2	0.19	2.86	9.8	20.5	77.3	61.8	3.00
	S D		---				---	---									
	Rng		---				---	---									
	N	1	---	1	1	1	---	---	1	1	1	1	1	1	1	1	1
AC	Ave	6.1	---	1.2	0.06	20.0	---	---	9.9	3.7	0.21	2.25	10.5	19.1	84.1	60.5	2.68
	S D		---				---	---									
	Rng		---				---	---									
	N	1	---	1	1	1	---	---	1	1	1	1	1	1	1	1	1
C1	Ave	6.2	---	0.8	0.06	13.3	---	---	9.3	4.6	0.21	1.79	7.1	20.7	76.8	69.1	2.02
	S D		---				---	---									
	Rng		---				---	---									
	N	1	---	1	1	1	---	---	1	1	1	1	1	1	1	1	1
C2	Ave	6.4	---	0.6	0.04	15.0	---	---	9.0	5.3	0.37	1.68	5.8	18.6	87.9	41.4	1.70
	S D		---				---	---									
	Rng		---				---	---									
	N	1	---	1	1	1	---	---	1	1	1	1	1	1	1	1	1
B2tb	Ave	6.7	---	0.3	0.04	7.5	---	---	16.1	10.9	0.46	1.71	4.8	29.5	98.9	85.9	1.48
	S D		---				---	---									
	Rng		---				---	---									
	N	1	---	1	1	1	---	---	1	1	1	1	1	1	1	1	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Bohannon

TAXONOMIC NAME: Typic Haplumbrept

Horizon	Stat.	Horizon Thickness (cm)	Sand %	Silt %	Clay %	.10 Atm. % H_2O	.33 Atm. % H_2O	15 Atm. % H_2O	Bulk Density (g/cc)
A1	Ave	7.7	41.8	30.8	26.8	41.2	29.4	14.6	.93
	S D	2.1	5.6	3.7	2.9				
	Rng	3-7	37-46	28-33	24-29				
	N	3	2	2	2	1	1	1	1
A3	Ave	7.7	43.5	36.9	19.9	49.5	45.6	---	.75
	S D	1.2	4.9	7.6	8.4			---	
	Rng	7-9	39-49	32-46	12-29			---	
	N	3	3	3	3	1	1	---	1
B2	Ave	8	47.6	35.8	16.7	40.95	34.3	13.5	.955
	S D	3.5	4.2	10.2	6.6	6.7	9.0		.078
	Rng	4-12	43-52	29-47	9-22	36-46	28-41		.9-1.01
	N	3	3	3	3	2	2	1	2
B3	Ave	9	44.8	35.5	19.6	---	---	---	---
	S D	2.8	5.34	7.8	2.5	---	---	---	---
	Rng	7-11	41-49	30-41	18-22	---	---	---	---
	N	2	2	2	2	---	---	---	---
C	Ave	26.0	46.5	38.1	18.9	---	---	---	---
	S D	13.9	7.2	6.8	5.2	---	---	---	---
	Rng	10-34	38-53	30-44	13-22	---	---	---	---
	N	3	3	3	3	---	---	---	---
Dr	Ave	62	58.2	32.4	9.3	---	---	---	---
	S D					---	---	---	---
	Rng					---	---	---	---
	N	1	1	1	1	---	---	---	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Bohannon TAXONOMIC NAME: Typic Haplumbrept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	-----------	---%---	-----------		%	(ppm)	-----------	-----------	---Meq/100g---	-----------	-----------	-----------	(NH_4OAc)	(Σ Cat)	
A1	Ave	5.5	11.9	6.98	.31	24.7	---	---	4.0	2.75	.27	.80	35.75	44.1	21.0	28.5	1.8
	S D	.6	4.0	2.3	.16	7.3	---	---	1.9	2.3	.14	.13	11.1		9.9	9.1	.75
	Rng	4.8-5.9	7-16	4.6-9.2	.14-.44	20-33	---	---	2-6	1-5.4	.19-.43	.6-.9	28-44		10-28	22-35	1-2.5
	N	3	3	3	3	3	---	---	3	3	3	3	3	1	3	2	3
A3	Ave	5.7	7.4	4.3	.20	21.5	---	---	2.2	1.7	.25	.55	30.6	29.6	16.5	18.1	1.3
	S D	.35	2.1	1.26	.06	2.2	---	---	1.95	1.3	.14	.26	10.5		13.3	7.4	.79
	Rng	5.3-6.0	4-9	2.9-5.3	.13-.25	19-23	---	---	.3-4.2	.3-2.8	.12-.39	.25-.72	23-38		4-30	13-23	.7-2.2
	N	3	3	3	3	3	---	---	3	3	3	3	2	1	3	2	3
B2	Ave	5.6	4.54	2.65	.13	20.1	---	---	1.2	1.1	.14	.35	24.75	29.1	12.2	13.7	1.4
	S D	.35	3.0	1.73	.06	4.5	---	---	1.2	.7	.03	.15	6.9		10.7	7.8	.35
	Rng	5.4-6.0	2.7-8.0	1.6-4.7	.08-.19	15-25	---	---	.3-2.5	.3-1.6	.1-.17	.2-.5	20-29.6		9-24	8-19	1.0-1.6
	N	3	3	3	3	3	---	---	3	3	3	3	2	1	3	2	3
B3	Ave	5.65	2.6	1.5	.07	20.8	---	---	1.1	1.8	.195	.3	17.4	20.3	16.7	22.1	1.1
	S D	.5	1.2	.7	.028	1.4	---	---	1.3	1.4	.09	.24			17.9		.28
	Rng	5.3-6.0	1.7-3.4	1-2	.05-.09	20-22	---	---	.2-2.0	.15-2.2	.13-.26	.13-.47			3-28		.9-1.3
	N	2	2	2	2	2	---	---	2	2	2	2	1	1	2	1	2
C	Ave	5.6	2.36	1.1	.05	21.9	---	---	.65	1.2	.23	.20	20.0	14.4	12.0	15.8	1.25
	S D	.6		.33	.01	.63	---	---	.5	1.5	.08	.11			9.5		1.1
	Rng	5.2-6.0		.9-1.4	.04-.06	21-22	---	---	.3-1	.15-2.2	.17-.28	.13-.28			5-19		.5-2.0
	N	2	1	2	2	2	---	---	2	2	2	2	1	1	2	1	2
Dr	Ave	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	S D	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Rng	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Bornstedt TAXONOMIC NAME: Typic Fragiochrept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	%----------		----------	% H_2O----------		(g/cc)
Ap	Ave	20.0	14.4	62.6	23.0	---	22.9	11.3	1.5
	S D	---	1.1	1.8	.6	---	1.65	.1	.1
	Rng	20.0	13-15	61-64	22-24	---	21-25	11.2-11.4	1.4-1.6
	N	3	2	2	2	---	3	2	3
B21	Ave	29.5	12.4	59.1	28.5	---	21.9	11.4	1.4
	S D	5.0	.9	.6	1.6	---	2.0	.4	.09
	Rng	26-33	11-13	58-60	27-30	---	20-23	11.1-11.7	1.3-1.5
	N	2	2	2	2	---	2	2	2
B22	Ave	17.0	11.35	57.7	30.9	---	22.9	11.85	1.6
	S D	1.4	.35	1.6	1.9	---	/	.2	/
	Rng	16-18	11-12	56-59	29-33	---	/	11-12	/
	N	2	2	2	2	---	1	2	1
B3	Ave	17.5	12.5	53.4	34.0	---	23.1	13.3	1.6
	S D	6.4	1.7	.8	2.5	---	.8	.85	.04
	Rng	13-22	11-14	53-54	32-36	---	22-24	12-14	1.5-1.7
	N	2	2	2	2	---	2	2	2
Bx1	Ave	32.0	10.5	47.8	41.75	---	25.9	17.0	1.6
	S D	8.5	.1	.5	.35	---	1.9	.7	.01
	Rng	26-38	10-11	47-48	41-42	---	24-27	16-18	1.5-1.6
	N	2	2	2	2	---	2	2	2
Bx2	Ave	44.5	7.5	47.4	45.1	---	27.1	18.45	1.5
	S D	16.2	1.5	4.0	5.6	---	/	.2	/
	Rng	33-56	6.4-8.6	44-50	41-49	---	/	18-19	/
	N	2	2	2	2	---	1	2	1
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Bornstedt TAXONOMIC NAME: Typic Fragiochrept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	---%				%	(ppm)	Meq/100g						(NH_4OAc)	(Σ Cat)	
Ap	Ave	5.5	---	2.3	.2	14.0	2.1	---	4.65	1.6	.1	.6	15.0	16.2	43.0	31.5	3.15
	S D	.3	---	.4	.03	---		---	1.9	1.0	---	.4	3.1	.35	21.2	14.8	.8
	Rng	5.3-5.7	---	2.0-2.6	.1-.3	14.0		---	3-7	.9-2.3	.1	.3-.9	13-17	15-16	28-58	21-42	2.6-3.7
	N	2	---	2	2	2	1	---	2	2	2	2	2	2	2	2	2
B21	Ave	5.6	---	.4	.05	8.0	2.9	---	3.1	1.05	.1	.3	8.4	10.75	42.0	---	3.15
	S D	.2	---	.1	.009	1.4		---	---	.35	---	---	.85	.2	4.2	---	1.1
	Rng	5.5-5.7	---	.3-.5	.04-.05	7-9		---	3.1	.8-1.3	.1	.3	7.8-9.0	10-11	39-45	---	2.4-3.9
	N	2	---	2	2	2	1	---	2	2	2	2	2	2	2	---	2
B22	Ave	5.4	---	.4	.04	11.5	2.7	---	3.2	1.4	.1	.25	7.9	10.8	45.0	---	2.3
	S D	---	---	.4	.001	12.0		---	---	---	---	.07	.3	.1	1.4	---	---
	Rng	5.4	---	.1-.7	.03-.04	3-20		---	3.2	1.4	.1	.2-.3	7.7-8.1	10-11	44-46	---	2.3
	N	2	---	2	2	2	1	---	2	2	2	2	2	2	2	---	2
B3	Ave	5.4	---	.08	---	---	3.6	---	3.15	1.45	.1	.15	8.8	11.3	42.0	---	2.2
	S D	.1	---	.06	---	---		---	.5	.07	---	.07	.1	.4	4.2	---	.2
	Rng	5.3-5.5	---	.04-.12	---	---		---	2.8-3.5	1.4-1.5	.1	.1-.2	8.7-8.9	11-12	39-45	---	2.0-2.3
	N	2	---	2	---	---	1	---	2	2	2	2	2	2	2	---	2
Bx1	Ave	5.35	---	.11	---	---	3.8	---	2.6	1.9	.1	.15	11.3	13.75	34.0	---	1.4
	S D	.2	---	.04	---	---		---	.4	.6	---	.07	.85	1.5	4.2	---	.1
	Rng	5.2-5.5	---	.08-.13	---	---		---	2.3-2.9	1.5-2.3	.1	.1-.2	10-12	12-15	31-37	---	1.3-1.5
	N	2	---	2	---	---	1	---	2	2	2	2	2	2	2	---	2
Bx2	Ave	5.05	---	.04	---	---	4.6	---	2.4	1.95	.1	.1	11.7	13.6	33.0	---	1.25
	S D	.07	---	.03	---	---		---	.1	.07	---	---	.6	.7	2.8	---	.07
	Rng	5.0-5.1	---	.02-.06	---	---		---	2.3-2.5	1.9-2.0	.1	.1	11-12	13-14	31-35	---	1.2-1.3
	N	2	---	2	---	---	1	---	2	2	2	2	2	2	2	---	2
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Braillier

TAXONOMIC NAME: Typic Medihemist

Horizon	Stat.	Horizon Thickness (cm)	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density (g/cc)
				%			% H_2O		
OE1	Ave S D Rng N	0-33 / 1	NO DATA AVAILABLE						
OA	Ave S D Rng N	33-64 / 1	NO DATA AVAILABLE						
OE	Ave S D Rng N	64-97 / 1	NO DATA AVAILABLE						
IIC	Ave S D Rng N	97-122 / 1	NO DATA AVAILABLE						
	Ave S D Rng N								
	Ave S D Rng N								
	Ave S D Rng N								
	Ave S D Rng N								
	Ave S D Rng N								

SOIL SERIES: Brallier

TAXONOMIC NAME: Typic Medihemist

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	%				%	(ppm)	Meq/100g						(NH_4OAc)	(Σ Cat)	
OE1	Ave	---	8.3	---	---	---	---	6	2.7	8.9	33.0	1.18	35.6	54.8	83.5	56.2	.30
	S D	---	/	---	---	---	---	/	/	/	/	/	/	/	/	/	/
	Rng	---		---	---	---	---										
	N	---	1	---	---	---	---	1	1	1	1	1	1	1	1	1	1
OA	Ave	---	0.8	---	---	---	---	3	1.6	8.9	19.0	0.95	47.2	56.9	53.5	39.2	.20
	S D	---	/	---	---	---	---	/	/	/	/	/	/	/	/	/	/
	Rng	---		---	---	---	---										
	N	---	1	---	---	---	---	1	1	1	1	1	1	1	1	1	1
OE	Ave	---	5.7	---	---	---	---	6	1.2	6.3	15.8	0.74	49.6	45.3	53.1	32.7	.20
	S D	---	/	---	---	---	---	/	/	/	/	/	/	/	/	/	/
	Rng	---		---	---	---	---										
	N	---	1	---	---	---	---	1	1	1	1	1	1	1	1	1	1
IIC	Ave	---	1.8	---	---	---	---	125	3.2	7.6	11.0	1.35	8.7	33.2	61.7	72.7	.40
	S D	---	/	---	---	---	---	/	/	/	/	/	/	/	/	/	/
	Rng	---		---	---	---	---										
	N	---	1	---	---	---	---	1	1	1	1	1	1	1	1	1	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
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	N																
	Ave																
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	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Brand

TAXONOMIC NAME: Aeric Haplaquept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density			
		(cm)		%			% H_2O		(g/cc)			
1	Ave	0-6	26.8	47.2	58.4		NO DATA AVAILABLE					
	S D	/	/	/	/							
	Rng											
	N	1	1	1	1							
2	Ave	6-10	---	---	---		NO DATA AVAILABLE					
	S D	/	---	---	---							
	Rng		---	---	---							
	N	1	---	---	---							
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
	N											

SOIL SERIES: Brand

TAXONOMIC NAME: Aeric Haplaquept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	%				%	(ppm)	Meq/100g						(NH_4OAc)	(Σ Cat)	
1	Ave	4.7	4.73	---	.20	---	---	2	2.13	7.40	.213	.312	---	13.8	72.9	---	.29
	S D	/	/	---	/	---	---	/	/	/	/	/	---	/	/	---	/
	Rng			---		---	---						---			---	
	N	1	1	---	1	---	---	1	1	1	1	1	---	1	1	---	1
2	Ave	5.0	2.61	---	.14	---	---	2	2.38	5.80	.516	.333	---	16.7	54.1	---	.41
	S D	/	/	---	/	---	---	/	/	/	/	/	---	/	/	---	/
	Rng			---		---	---						---			---	
	N	1	1	---	1	---	---	1	1	1	1	1	---	1	1	---	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
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	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Brenner

TAXONOMIC NAME: Fluvaquentic Humaquept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	%----------		----------	% H_2O----------		(g/cc)
A11	Ave	0-15	8.5	32.1	59.4	---	---	26.5	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
A12	Ave	15-28	11.6	41.9	46.5	---	---	23.2	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
A3	Ave	28-41	6.5	40.0	53.5	---	---	25.9	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
B21g	Ave	41-64	6.9	44.6	48.5	---	---	24.7	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
B22g	Ave	64-91	10.0	48.2	41.8	---	---	22.8	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
B3g	Ave	91-109	10.0	45.1	44.9	---	---	24.9	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Brenner

TAXONOMIC NAME: Fluvaquentic Humaquept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---	----------		%	(ppm)	----------	----------	Meq/100g	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
A11	Ave	4.7	4.71	---	---	---	---	11	0.23	1.6	0.35	0.33	27.46	---	---	8.4	.14
	S D	/	/	---	---	---	---	/	/	/	/	/	/	---	---	/	/
	Rng	/	/	---	---	---	---	/	/	/	/	/	/	---	---	/	/
	N	1	1	---	---	---	---	1	1	1	1	1	1	---	---	1	1
A12	Ave	5.1	9.52	---	---	---	---	10	1.8	1.5	0.33	0.27	21.66	---	---	15.3	1.2
	S D	/	/	---	---	---	---	/	/	/	/	/	/	---	---	/	/
	Rng	/	/	---	---	---	---	/	/	/	/	/	/	---	---	/	/
	N	1	1	---	---	---	---	1	1	1	1	1	1	---	---	1	1
A3	Ave	5.2	2.02	---	---	---	---	6	2.3	2.4	0.42	0.26	28.04	---	---	16.1	.99
	S D	/	/	---	---	---	---	/	/	/	/	/	/	---	---	/	/
	Rng	/	/	---	---	---	---	/	/	/	/	/	/	---	---	/	/
	N	1	1	---	---	---	---	1	1	1	1	1	1	---	---	1	1
B21g	Ave	5.3	1.15	---	---	---	---	6	2.7	3.1	0.35	0.16	17.29	---	---	26.7	.87
	S D	/	/	---	---	---	---	/	/	/	/	/	/	---	---	/	/
	Rng	/	/	---	---	---	---	/	/	/	/	/	/	---	---	/	/
	N	1	1	---	---	---	---	1	1	1	1	1	1	---	---	1	1
B22g	Ave	5.3	0.87	---	---	---	---	5	4.0	4.2	0.37	0.16	14.57	---	---	37.5	.95
	S D	/	/	---	---	---	---	/	/	/	/	/	/	---	---	/	/
	Rng	/	/	---	---	---	---	/	/	/	/	/	/	---	---	/	/
	N	1	1	---	---	---	---	1	1	1	1	1	1	---	---	1	1
B3g	Ave	5.3	0.82	---	---	---	---	4	5.1	5.3	0.39	0.16	13.69	---	---	44.4	.96
	S D	/	/	---	---	---	---	/	/	/	/	/	/	---	---	/	/
	Rng	/	/	---	---	---	---	/	/	/	/	/	/	---	---	/	/
	N	1	1	---	---	---	---	1	1	1	1	1	1	---	---	1	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Briedwell

TAXONOMIC NAME: Ultic Haploxeroll

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density	$CaCl_2$ pH	KCl Extr. M	Citr. Extr. Al
		(cm)	----------%----------			----------% H_2O----------			(g/cc)			
A1 & Ap	Ave	14	29.4	60.7	9.9	---	42.4	13.9	1.01	5.4	.35	.8
	S D	8.5	4.9	5.5	.63	---	13.9	4.2	.18	.14	.21	
	Rng	8-20	26-33	57-64	9.5-10.4	---	32-52	11-17	.8-1.2	5.3-5.5	.2-.5	
	N	2	2	2	2	---	2	2	2	2	2	1
B21	Ave	22	28.9	62.3	8.9	---	29.7	10.6	1.21	5.45	.3	.8
	S D	1.4	3.9	4.7	.78	---	4.0	.50	.17	.07	.14	
	Rng	21-23	26-32	59-66	8.3-9.4	---	27-33	10-11	1.0-1.3	5.4-5.5	.2-.4	
	N	2	2	2	2	---	2	2	2	2	2	1
B22	Ave	21	29.8	53.5	16.7	---	23.9	9.9	1.24	5.3	.3	.4
	S D	1.4	6.2	7.1	13.3	---		.85		.28		
	Rng	20-22	25-34	48-59	7-26	---		9-11		5.1-5.5		
	N	2	2	2	2	---	1	2	1	2	1	1
C1	Ave	42	38.8	53.6	7.6	---	---	9.6	---	5.4	---	.4
	S D	8.5	2.7	1.1	1.6	---	---	.92	---	.35	---	
	Rng	36-48	37-41	52-54	6-9	---	---	9-10	---	5.1-5.6	---	
	N	2	2	2	2	---	---	2	---	2	---	1
C2	Ave	34.5	74.5	20.0	5.5	---	---	8.4	---	5.5	---	.3
	S D	9.2	16.7	15	1.5	---	---	.14	---	.28	---	
	Rng	28-41	62-86	9-31	4.5-6.6	---	---	8.3-8.5	---	5.3-5.7	---	
	N	2	2	2	2	---	---	2	---	2	---	1
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
	N											

SOIL SERIES: Briedwell

TAXONOMIC NAME: Utlic Haploxeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	-----------	---%---	-----------		%	(ppm)	-------	-------	-------	---Meq/100g---	-------	-------	(NH_4OAc)	(Σ Cat)	
A1 & Ap	Ave	5.7	---	4.15	.23	17.5	2.4	---	8.6	1.55	.1	1.1	21.9	24.7	44.5	33.5	6.3
	S D	.14	---	1.7	.07	2.1		---	3.3	1.1	---	.14	3.3	5.2	7.8	4.9	2.3
	Rng	5.6-5.8	---	2.9-5.3	.18-.28	16-19		---	6-11	.8-2.3	.1	1-1.2	19-24	21-28	39-50	30-37	4.7-7.9
	N	2	---	2	2	2	1	---	2	2	2	2	2	2	2	2	2
B21	Ave	6.15	---	1.58	.11	14	2.1	---	4.7	1.1	.1	1.15	14.7	16.8	41	31.5	4.2
	S D	.07	---	.28	.01	1.4		---	2.1	.14	---	.49	1.13	1.41	12.7	10.6	1.41
	Rng	6.1-6.2	---	1.3-1.8	.10-.12	13-15		---	3.2-6.2	1-1.2	.1	.8-1.5	14-16	16-18	32.50	24-39	3.2-5.2
	N	2	---	2	2	2	1	---	2	2	2	2	2	2	2	2	2
B22	Ave	5.95	---	.50	.065	7.5	2.2	---	3.25	1.2	.1	1.15	11.5	13.45	32.0	32.0	2.7
	S D	.21	---	.099	.003	.71		---	.78	.14	---	.78	.28	.5	7.1	7.1	.28
	Rng	5.8-6.1	---	.4-.6	.06-.07	7-8		---	2.7-3.8	1.1-1.3	.1	.6-1.7	11-12	13-14	27-37	27.37	2.5-2.9
	N	2	---	2	2	2	1	---	2	2	2	2	2	2	2	2	2
C1	Ave	5.95	---	.31	.043	12	1.8	---	4.7	1.6	0.2	.9	10.3	15.6	46.5	41.0	3.1
	S D	.07	---	.28				---	---	.35	---	.71	1.4	.28	6.4	7.1	.70
	Rng	5.9-6.0	---	.11-.5				---	4.7	1.3-1.8	.2	.4-1.4	9-12	15-16	42-51	36-46	2.6-3.6
	N	2	---	2	1	1	1	---	2	2	2	2	2	2	2	2	2
C2	Ave	6.0	---	.37	---	---	1.3	---	7.3	2.5	.3	.7	7.5	20.5	51.5	58.0	2.2
	S D	.14	---		---	---		---	2.5	1.1	---	.14	2.5	.91	16.3	17.0	1.4
	Rng	5.9-6.1	---		---	---		---	5-9	1.7-3.3	.3	.6-.8	5.7-9.2	20-21	40-63	46-70	1.2-3.2
	N	2	---	1	---	---	1	---	2	2	2	2	2	2	2	2	2
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
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	S D																
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	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Brightwood

TAXONOMIC NAME: Typic Haplumbrept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
A1	Ave	12.0	63.2	31.3	5.6	34.8	22.6	11.9	---
	S D	1.7	11.0	6.8	4.8	5.6	3.3	1.6	---
	Rng	10-13	50-70	26-40	1-11	30-39	20-25	10-13	---
	N	3	3	3	3	2	2	2	---
B21r	Ave	25.5	55.0	37.4	7.7	27.0	19.5	9.4	1.0
	S D	8.2	8.9	4.9	4.3				
	Rng	15-33	47-68	31-42	1.4-11				
	N	4	4	4	4	1	1	1	1
C	Ave	23.8	55	35.3	9.7	30.1	18.6	9.1	---
	S D	12.3	8.5	13.6	5.4				---
	Rng	12-36	49-67	15-45	5-18				---
	N	4	4	4	4	1	1	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Brightwood TAXONOMIC NAME: Typic Haplumbrept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	-------	---%---	-------		%	(ppm)	-------	-------	--Meq/100g--	-------	-------	-------	(NH_4OAc)	(Σ Cat)	
A1	Ave	5.6	6.8	3.9	.129	32.2	1.7	19.6	3.7	2.1	.13	.33	---	21.4	46	---	3.3
	S D	.15	2.6	1.5	.018	16.9	.2	23.7	3.0	.4	.06	.06	---	6.2	16	---	.55
	Rng	5.5-5.8	4-10	2.6-5.6	.11-.15	18-50	1.5-1.9	5-47	6-7	1.6-2.4	.1-.2	.3-.4	---	15-28	36-64	---	3-4
	N	3	3	3	3	3	3	3	3	3	3	3	---	3	3	---	3
B21r	Ave	5.9	6.4	3.7	.117	30.7	1.8	13.0	4.1	1.18	.15	.15	---	18.8	31.3	---	3.35
	S D	.17	3.23	1.88	.047	5.9	.14	19.7	2.13	.74	.06	.06	---	2.29	19.3	---	.78
	Rng	5.7-6.1	2.6-11	1.5-6.1	.07-.18	23-36	1.6-1.9	2.0-43	2.0-6.2	.5-2.0	.1-.2	.1-.2	---	17-21	13-49	---	2.8-3.9
	N	4	4	4	4	4	4	4	4	4	4	4	---	4	4	---	2
C	Ave	5.9	4.1	2.4	.078	30.1	1.88	6.7	3.0	.98	.175	.1	---	18.7	24.5	---	2.9
	S D	.096	1.6	.92	.025	2.43	.25	7.1	2.0	.74	.05	---	---	3.4	17.5	---	1.1
	Rng	5.8-6.0	2-6	1-4	.04-.11	27-33	1.6-2.2	1-17	1-6	.2-1.7	.1-.2	.1	---	15-23	7-42	---	2-4
	N	4	4	4	4	4	4	4	4	4	4	4	---	4	4	---	4
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
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	S D																
	Rng																
	N																

SOIL SERIES: Bull Run

TAXONOMIC NAME: Umbric Vitrandept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	---%---	----------	----------	---% H_2O---	----------	(g/cc)
A1	Ave	5.0	24.4	58.9	16.6	82.8	76.0	38.0	---
	S D	2.0	3.7	5.6	2.0	/	/	/	---
	Rng	3-7	22-27	55-63	15-18				---
	N	3	2	2	2	1	1	1	---
A3	Ave	4.7	22.1	60.4	17.5	82.8	76.0	38.0	---
	S D	.6	1.7	5.1	4.5	/	/	/	---
	Rng	4-5	20-24	56-66	12-20				---
	N	3	3	3	3	1	1	1	---
B2	Ave	6.0	22.0	63.7	14.4	--	--	--	---
	S D	1.0	1.8	5.3	3.9	--	--	--	---
	Rng	5-7	20-24	58-69	10-18	--	--	--	---
	N	3	3	3	3	--	--	--	---
B3	Ave	22.25	22.9	61.0	16.2	55.7	50.5	17.6	---
	S D	19.9	6.0	3.2	3.1	4.9	3.6	.50	---
	Rng	10-52	17-31	57-64	12-19	52-59	48-53	17-18	---
	N	4	4	4	4	2	2	2	---
C	Ave	17.3	32.2	57.7	10.1	52.2	48.4	18.2	---
	S D	2.1	12.2	12.2	2.2	/	/	/	---
	Rng	15-19	23-46	44-68	8-13				---
	N	3	3	3	3	1	1	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Bull Run TAXONOMIC NAME: Umbric Vitrandept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	--------	---%---	--------		%	(ppm)	--------	--------	--Meq/100g--	--------	--------	--------	(NH_4OAc)	(Σ Cat)	
A1	Ave	5.7	16.4	9.7	.37	24.6	2.55	4.8	5.0	2.6	.2	.6	---	29.7	29.0	---	1.8
	S D	.3	13.8	7.9	.24	3.9	.2	.7	4.0	2.05	.25	.3	---	10.8	21.6	---	1.2
	Rng	5.5-6.0	7-32	4-19	.19-.65	20-29	2.4-2.7	4.3-5.3	.6-8.4	.6-4.7	.04-.5	.4-.9	---	22-42	7-50	---	1.0-3.2
	N	3	3	3	3	3	2	2	3	3	3	3	---	3	3	---	3
A3	Ave	5.5	14.8	9.7	.30	37.6	2.65	3.9	2.4	1.7	.2	.45	---	22.8	22.8	---	1.8
	S D	.3	15.4	8.4	.29	26.6	.07	2.0	2.2	2.0	.2	.05	---	6.4	22.9	---	.8
	Rng	5.2-5.7	8-33	8-22	.12-.64	16-67	2.6-2.7	2.5-5.3	.7-4.8	.5-4.0	.09-.4	.4-.5	---	19-30	9-49	---	1.4-2.7
	N	3	3	3	3	3	2	2	3	3	3	3	---	3	3	---	3
B2	Ave	5.7	5.15	3.0	.14	17.65	3.3	2.0	.9	.4	.2	.3	---	17.0	12.3	---	1.6
	S D	.06	3.9	2.3	.075	4.1	1.0	.7	.8	.2	.1	.1	---	5.5	8.5	---	1.3
	Rng	5.7-5.8	2.4-7.9	1.4-4.6	.09-.23	14-21	2.6-4.0	1.5-2.5	.3-1.8	.2-.6	.09-.3	.1-.4	---	12-23	5-22	---	1.4-3.0
	N	3	2	2	3	3	3	2	3	3	3	3	---	3	3	---	3
B3	Ave	5.8	2.4	1.4	.082	16.4	3.5	2.0	.4	.3	.2	.3	---	17.4	7.1	---	1.6
	S D	.2	1.4	.8	.033	4.3	.9	.25	.1	.05	.1	.1	---	3.3	2.3	---	.5
	Rng	5.6-6.0	1.0-4.3	.6-2.5	.06-.14	10-19	2.4-4.0	1.8-2.3	.3-.6	.2-.3	.07-.3	.16-.4	---	15-23	5-10	---	1-2
	N	4	4	4	4	4	3	3	4	4	4	4	---	4	4	---	4
C	Ave	5.8	1.03	.6	.042	12.7	3.6	2.7	.2	.15	.2	.2	---	15.6	4.7	---	1.5
	S D	.06	.55	.3	.018	4.4	1.8	1.0	.2	.07	.1	.1	---	5.3	1.0	---	.7
	Rng	5.7-5.8	.4-1.4	.2-.7	.02-.06	8-17	1.5-5.0	2.0-3.8	.1-.4	.1-.2	.1-.3	.1-.3	---	10-21	4.0-5.8	---	1-2
	N	3	3	3	3	3	3	3	3	2	3	3	---	3	3	---	2
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Burlington

TAXONOMIC NAME: Entic Ultic Haploxeroll

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	%	----------	----------	% H_2O	----------	(g/cc)
Ap1	Ave	0-10	66.6	26.3	7.1	---	---	8.1	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
Ap2	Ave	10-30	67.3	25.8	6.9	---	---	7.6	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
C1	Ave	30-71	71.6	23.8	5.6	---	---	5.3	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
C2	Ave	71-152	72.2	22.0	4.8	---	---	5.8	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Burlington

TAXONOMIC NAME: Entic Ultic Haploxeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	%				%	(ppm)	Meq/100g						(NH_4OAc)	(Σ Cat)	
Ap1	Ave S D Rng N	NO DATA AVAILABLE															
Ap2	Ave S D Rng N	NO DATA AVAILABLE															
C1	Ave S D Rng N	NO DATA AVAILABLE															
C2	Ave S D Rng N	NO DATA AVAILABLE															
	Ave S D Rng N																
	Ave S D Rng N																
	Ave S D Rng N																
	Ave S D Rng N																
	Ave S D Rng N																

SOIL SERIES: Calimus

TAXONOMIC NAME: Pachic Haploxeroll

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density	Bulk Density
		(cm)	----------	%----------		----------	% H_2O----------		(g/cc)	(1/3 bar)
Ap	Ave	14	56.6	27.2	16.2	---	19.8	9.3	1.49	1.39
	S D	1.4				---	6.1	3.2	.18	.19
	Rng	13-15				---	16-24	7-12	1.3-1.6	1.2-1.5
	N	2	1	1	1	---	2	2	2	2
A12	Ave	14	50.3	32.8	16.9	---	26.6	10.2	1.46	1.36
	S D	1.4				---		4.2		
	Rng	13-15				---		7-13		
	N	2	1	1	1	---	1	2	1	1
B2	Ave	18	49.3	33.2	17.5	---	24.7	10.9	1.34	1.24
	S D	7.1				---	10.0	4.5	.18	.16
	Rng	13-23				---	18-32	7-14	1.2-1.5	.11-.14
	N	2	1	1	1	---	2	2	2	2
B31	Ave	28.5	56.1	30.5	13.4	---	29.1	10.8	1.31	1.24
	S D	9.2				---		2.7		
	Rng	22-35				---		9-13		
	N	2	1	1	1	---	1	2	1	1
B32	Ave	38.0	52.8	33.1	14.1	---	26.7	13.3	1.45	1.27
	S D	1.4				---	8.4	.64	.28	.12
	Rng	37-39				---	21-33	12-14	1.2-1.7	1.1-1.6
	N	2	1	1	1	---	2	2	1	1
R-C	Ave	25	69.4	25.2	5.4	---	59.7	14.5	.98	.98
	S D	7.1				---		12.8		
	Rng	20-30				---		5-24		
	N	2	1	1	1	---	1	2	1	1
	Ave									
	S D									
	Rng									
	N									
	Ave									
	S D									
	Rng									
	N									
	Ave									
	S D									
	Rng									
	N									

SOIL SERIES: Calimus

TAXONOMIC NAME: Pachic Haploxeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)		%			%	(ppm)			Meq/100g				(NH_4OAc)	(Σ Cat)	
Ap	Ave	6.85	---	1.22	.111	---	.7	---	32.7	13.4	.3	6.1	2.6	37.2	98	96	2.4
	S D	.5	---	.22	.019	---		---			---	7.1	.21	30			
	Rng	6.5-7.2	---	1.0-1.4	.09-.12	---		---			.3	1-11	2.4-2.7	16-59			
	N	2	---	2	2	---	1	---	1	1	2	2	2	2	1	1	1
A12	Ave	6.6	---	.75	.059	---	.8	---	43.1	12.9	.45	5.2	3.5	36.4	100	93	3.3
	S D		---	.38		---		---			.07	6.4	1.6	29.7			
	Rng		---	.4-1.0		---					.4-.5	.6-10	2.4-4.6	15-58			
	N	1	---	2	1	---	1	---	1	1	2	2	2	2	1	1	1
B2	Ave	6.6	---	.595	.048	---	.8	---	38.8	14.0	1.3	3.6	2.8	38.7	100	95	2.8
	S D		---	.30		---		---			1.13	4.2	.21	32.0			
	Rng		---	.3-.8		---		---			.5-2.1	.6-6.5	2.6-2.9	16-62			
	N	1	---	2	1	---	1	---	1	1	2	2	2	2	1	1	1
B31	Ave	6.7	---	.445	---	---	.7	---	39.8	18.0	1.25	1.5	2.6	39.5	100	96	2.2
	S D		---	.09	---	---		---			.78	1.3	.35	31.7			
	Rng		---	.38-.51	---	---		---			.7-1.8	.6-2.4	2.3-2.8	17-62			
	N	1	---	2	---	---	1	---	1	1	2	2	2	2	1	1	1
B32	Ave	7.3	---	.435	---	---	.7	---	33.0	19.5	1.7	1.55	5.1	41.9	96	95	1.7
	S D		---	.16	---	---		---			.57	.07	3.0	23.1			
	Rng		---	.3-.6	---	---		---			1.3-2.1	1.5-1.6	2.9-7.2	26-58			
	N	1	---	2	---	---	1	---	1	1	2	2	2	2	1	1	1
R-C	Ave	7.2	---	.21	---	---	.6	---	29.1	19.8	1.6	.95	1.0	29.7	100+	100+	1.5
	S D		---	.14	---	---		---			1.34	.21		18.1			
	Rng		---	.1-.3	---	---		---			.6-2.5	.8-1.1		16-43			
	N	1	---	2	---	---	1	---	1	1	2	2	1	2	1	1	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Camas

TAXONOMIC NAME: Fluventic Haploxeroll

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
Ap	Ave	15.9	56.1	24.7	11.7	---	---	7.5	---
	S D	.5	9.4	4.0	4.3	---	---		---
	Rng	15-18	55-73	21-31	5-15	---	---		---
	N	4	4	4	4	---	---	1	---
A12	Ave	16.5	68.2	22.8	9.1	---	---	6.2	---
	S D	.71				---	---		---
	Rng	15-18				---	---		---
	N	2	1	1	1	---	---	1	---
IIC	Ave	102	92	5.7	2.4	---	---	3.1	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Camas

TAXONOMIC NAME: Fluventic Haploxeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------%----------				%	(ppm)	----------Meq/100g----------						(NH_4OAc)	(Σ Cat)	
Ap	Ave	5.5	4.8	2.2	.2	11	---	34.6	12.0	2.8	.123	.67	---	26.7	93.0	---	6.3
	S D		.61				---		2.9	2.0	.05	.61	---	17.0		---	4.3
	Rng		4-5.4				---		9-16	.8-5.2	.09-.2	.05-1.3	---	16-52		---	2.6-11.7
	N	1	3	1	1	1	---	1	4	4	4	4	---	4	1	---	4
A12	Ave	5.75	1.95	.7	.1	7.0	---	41.2	11.4	4.7	.135	.39	---	16.6	81.5	---	2.45
	S D	.35					---		4.9	2.0	.05	.13	---	2.8		---	.07
	Rng	5.5-6					---		8-15	3.2-6.2	.1-.2	.3-.5	---	14-19		---	2.4-2.5
	N	2	1	1	1	1	---	1	2	2	2	2	---	2	1	---	2
IIC	Ave	6.0	---	.1	T	---	---	5.0	4.6	1.9	0.1	0.3	---	8.0	86.5	---	2.4
	S D		---			---	---						---			---	
	Rng		---			---	---						---			---	
	N	1	---	1	1	---	---	1	1	1	1	1	---	1	1	---	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
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	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Carney

TAXONOMIC NAME: Typic Chromoxerert

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	----%	----------	----------	---% H_2O---	----------	(g/cc)
A1	Ave	10.8	11.3	25.5	63.2	---	45.9	29.3	1.8
	S D	5.4	1.0	3.3	2.9	---		1.1	
	Rng	5-18	10-13	22-30	59-65	---		28-31	
	N	4	4	4	4	---	1	4	1
A12	Ave	20.3	11.4	28.1	60.6	43.7	46.5	29.5	1.74
	S D	4.6	1.2	4.7	5.8		5.2	1.8	.36
	Rng	15-25	9-12	26-33	55-68		40-51	26-31	1.3-2.0
	N	4	4	4	4	1	3	4	3
A13	Ave	28.5	11.4	27.9	61.5	---	49.6	29.3	1.9
	S D	2.6	1.3	5.5	5.3	---	1.4	2.5	.14
	Rng	25-31	10-13	31-33	57-67	---	48-51	26-33	1.8-2.0
	N	4	4	4	4	---	2	4	2
A14	Ave	31.5	11.4	24.5	64.2	43.8	40.5	28.8	1.39
	S D	2.1	1.8	2.2	4.1			4.0	
	Rng	30-33	10-13	23-26	61-67			26-32	
	N	2	2	2	2	1	1	2	1
AC	Ave	26.0	15.1	27.5	57.2	---	49.4	28.5	20
	S D	6.3	2.5	6.0	6.8	---		2.6	
	Rng	18-33	13-19	21-34	50-65	---		25-31	
	N	4	4	4	4	---	1	2	1
C	Ave	27.0	18.3	31.3	50.4	---	---	28.9	---
	S D	7.9	4.9	5.3	9.5	---	---	5.0	---
	Rng	18-33	13-23	26-36	44-61	---	---	23-33	---
	N	3	3	3	3	---	---	3	---
IIC	Ave	28+	37.0	26.3	36.8	---	---	23.4	---
	S D	---	32.0	.71	31.3	---	---	9.5	---
	Rng	28+	14-60	26-27	14-60	---	---	17-30	---
	N	2	2	2	2	---	---	2	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Carney

TAXONOMIC NAME: Typic Chromoxerert

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---	----------		%	(ppm)	----------	----------	---Meq/100g---	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
A1	Ave	6.8	3.3	2.4	.139	17.7	---	22.3	32.4	19.0	.31	1.1	5.2	55.3	92.2	91.7	1.7
	S D	.37	1.1	.42	.018	5.3	---	11.0	10.0	2.2	.18	.25	.50	3.6	14.3	.35	.56
	Rng	6.3-7.2	2.2-4.7	2.1-2.7	.12-.15	14-22	---	14-30	18-41	17-22	.2-.6	.7-1.4	4.8-5.5	52-61	71-100	91-92	1.0-2.4
	N	4	4	2	2	2	---	2	4	4	4	4	2	4	4	2	4
A12	Ave	6.83	1.3	1.2	.057	21.0	---	12.1	37.8	20.4	.41	.67	4.35	57.6	98.3	93.2	1.9
	S D	.13	.90	---	.001	.57	---	9.8	3.9	2.1	.23	.27	.07	2.2	3	.64	.24
	Rng	6.7-7.0	.1-2	1.2	.05-.06	20-22	---	5-19	33-43	17-23	.1-.7	.4-1	4.3-4.4	54-59	95-100	92-94	1.7-2.1
	N	4	4	2	2	2	---	2	4	4	4	4	2	4	3	2	4
A13	Ave	7.15	1.19	1.05	.053	19.8	---	9.1	36.8	20.3	.580	.64	3.9	58.2	92.4	93.9	1.8
	S D	.24	.83	.07	---	1.3	---	9.8	4.8	1.8	.31	.29	1.1	7.1	7.5	2.0	.17
	Rng	7-7.5	.1-1.9	1-1.1	.053	18-21	---	2-16	31-42	17-22	.3-.9	.4-1.0	3.1-4.7	49-67	85-100	93-95	1.6-2.0
	N	4	4	2	2	2	---	2	4	4	4	4	2	4	3	2	4
A14	Ave	7.6	1.6	.95	.055	17.9	---	4.8	34.5	21.6	1.0	.56	---	60.8	94.6	---	1.6
	S D	.14	.14	.07	.01	3.6	---		2.8	4.2	.76	.16	---	4.3	5.9	---	.18
	Rng	7.5-7.7	1.5-1.7	.9-1	.04-.07	15-20	---		32-37	18-25	.5-1.6	.4-.7	---	58-64	90-99	---	1.5-1.8
	N	2	2	2	2	2	---	1	2	2	2	2	---	2	2	---	2
AC	Ave	7.7	.74	.55	.028	17.6	---	11.3	37.8	22.8	1.4	.64	3.0	56.8	100	95.6	1.70
	S D	.36	.22	.07	.005	4.5	---	11.0	4.2	3.4	1.5	.31	.36	4.7	---	.71	.21
	Rng	7.2-8.0	.5-1	.5-.6	.02-.03	14-21	---	3-19	32-43	18-27	.4-3.6	.4-1.1	2.7-3.2	52-61	100	95-96	1.4-1.9
	N	2	2	2	2	2	---	2	4	4	4	4	2	4	2	2	4
C	Ave	8.1	.74	.35	.235	14.9	---	2.8	43.3	25.4	1.95	.42	3.0	61.8	100	96.8	1.7
	S D	.06	.16	.07	.04	.78	---		15.2	6.2	1.8	.17		11.8	---		.38
	Rng	8.1-8.2	.6-1	.3-.4	.02-.03	14-16	---		34-61	18-31	.3-4.0	.25-.58		50-73	100		1.3-2.0
	N	3	3	2	2	2	---	1	3	3	3	3	1	3	2	1	3
IIC	Ave	8.15	.40	.2	.095	13.9	---	2.2	34.5	21.9	3.02	.34	---	47.0	100	---	1.7
	S D	.07	.28	.14	.121	4.0	---		.71	7.2	2.9	.14	---	11.7	---	---	.55
	Rng	8.1-8.2	.2-.6	.1-.3	.01-.02	11-17	---		34-35	17-27	.95-5.0	.2-.5	---	28-55	100	---	1.3-2.1
	N	2	2	2	2	2	---	1	2	2	2	2	---	2	2	---	2
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Cazadero

TAXONOMIC NAME: Typic Rhodudult

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)		%			% H_2O		(g/cc)
Ap	Ave	15	16.2	49.6	34.2	---	25.2	14.0	1.47
	S D	---	.95	.81	1.8	---	1.3	.32	.08
	Rng	15	15-17	49-51	32-36	---	24-27	13-14	1.3-1.5
	N	3	3	3	3	---	3	3	3
B1t	Ave	21.5	16.8	49.0	34.2	---	24.5	14.2	1.5
	S D	2.1	1.3	.57	.70	---		.99	
	Rng	20-23	16-18	48-50	33-35	---		13-15	
	N	2	2	2	2	---	1	2	1
B21t	Ave	12.0	12.8	45.2	42	---	24.4	15.3	1.57
	S D	1.4	.14	.21	.07	---	1.3	.35	.11
	Rng	11-13	12-13	45-46	42-43	---	23-25	15-16	1.4-1.7
	N	2	2	2	2	---	2	2	2
B22t	Ave	25.5	11.2	39.2	49.7	---	25.2	17.1	1.61
	S D	3.5	1.7	.21	1.5	---		.50	
	Rng	23-28	10-13	39-40	48-51	---		16-18	
	N	2	2	2	2	---	1	2	1
B23t	Ave	19	10.0	40.9	49.2	---	28.1	18.2	1.5
	S D	5.7	2.9	3.2	6.1	---	.70	2.4	.06
	Rng	15-23	8-12	38-43	45-54	---	27-29	16-20	1.4-1.6
	N	2	2	2	2	---	2	2	2
B3t	Ave	26	6.0	35.4	58.6	---	29.4	22.0	1.56
	S D	7.9	1.1	1.1	1.3	---	.07	.5	.014
	Rng	20-35	5.2-7.2	34-37	57-60	---	29-30	21-23	1.5-1.6
	N	3	3	3	3	---	3	3	2
C1	Ave	43	5.8	31.2	63.0	---	31.9	25.2	1.46
	S D					---			
	Rng					---			
	N	1	1	1	1	---	1	1	1
C2	Ave	25	36.3	21.8	41.9	---	47.2	34.3	.99
	S D					---			
	Rng					---			
	N	1	1	1	1	---	1	1	1
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Cazadero

TAXONOMIC NAME: Typic Rhodudult

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---	----------		%	(ppm)	----------	----------	Meq/100g	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
Ap	Ave	5.33	---	2.2	.145	14.7	---	---	3.3	.77	.1	.7	17.9	18.2	26.3	21.7	4.3
	S D	,51	---	.45	.02	.58	---	---	1.8	.42	---	.1	3.6	.82	13.2	11.2	.15
	Rng	4.8-6.0	---	1.6-2.6	.11-.17	14-15	---	---	1-5	.3-1.1	.1	.6-.8	14-22	17-19	12-38	9-32	4.1-4.4
	N	3	---	3	3	3	---	---	3	3	3	3	3	3	3	3	3
B1t	Ave	5.7	---	.79	.064	12.0	---	---	3.4	.8	.1	.60	12.6	15.8	30.5	27.8	4.2
	S D	.28	---	.34	.02	1.4	---	---	.78	---	---	.14	1.6	3.3	2.1	.14	1.0
	Rng	5.5-5.9	---	.5-1.0	.05-.08	11-13	---	---	2.8-3.9	.8	.1	.5-.7	11-14	13-18	29-32	27-28	3.5-4.9
	N	2	---	2	2	2	---	---	2	2	2	2	2	2	2	2	2
B21t	Ave	5.6	---	.315	.047	9	---	---	4.0	1.3	.1	.45	10.1	15.5	37.5	36.8	3.2
	S D	.28	---	.15			---	---	.57	.14	---	.35	1.4	1.4	3.5	2.9	.78
	Rng	5.4-5.8	---	.2-.5			---	---	3-5	1-2	.1	.2-.7	9-11	14-17	35-40	34-39	2.6-3.7
	N	2	---	2	1	1	---	---	2	2	2	2	2	2	2	2	2
B22t	Ave	5.4	---	.17	---	---	---	---	3.0	1.5	.1	.25	11.7	16.7	28.5	29.3	2.0
	S D	.07	---	.03	---	---	---	---	.14	---	---	.21	.42	.42	.70	2.3	.14
	Rng	5.3-5.4	---	.15-.19	---	---	---	---	2.9-3.1	1.5	.1	.10.4	11-12	16-17	28-29	27-31	1.9-2.1
	N	2	---	2	---	---	---	---	2	2	2	2	2	2	2	2	2
B23t	Ave	5.25	---	.17	---	---	---	---	2.5	1.5	.1	.2	13.7	16.2	25.5	23.7	1.7
	S D	.07	---	.028	---	---	---	---	.35	.42	---	.14	2.5	2.8	.71	.64	.21
	Rng	5.2-5.3	---	.15-.19	---	---	---	---	2.2-2.7	1.2-1.8	.1	.1-.3	12-16	14-18	25-26	23-24	1.5-1.8
	N	2	---	2	---	---	---	---	2	2	2	2	2	2	2	2	2
B3t	Ave	5.27	---	.093	---	---	---	---	2.0	1.5	.1	.17	14.6	17.7	20.6	20.5	1.33
	S D	.06	---	.029	---	---	---	---	.10	---	---	.06	.72	1.2	2.08	.93	.06
	Rng	5.2-5.3	---	.06-.11	---	---	---	---	1.9-2.1	1.5	.1	.1-.2	14-16	16-19	19-23	19-21	1.3-1.4
	N	3	---	3	---	---	---	---	3	3	3	3	3	3	3	3	3
C1	Ave	5.3	---	.07	---	---	---	---	1.8	1.4	.1	.1	15	16.1	21	18.5	1.3
	S D		---		---	---	---	---									
	Rng		---		---	---	---	---									
	N	1	---	1	---	---	---	---	1	1	1	1	1	1	1	1	1
C2	Ave	5.2	---	.07	---	---	---	---	1.7	1.3	.3	.1	11.8	13.9	24	22.4	1.3
	S D		---		---	---	---	---									
	Rng		---		---	---	---	---									
	N	1	---	1	---	---	---	---	1	1	1	1	1	1	1	1	1
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Central Point

TAXONOMIC NAME: Pachic Haploxeroll

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
Ap	Ave	7.0	57.3	28.4	14.3	17.9	15.8	8.4	---
	S D	1.4	10.3	9.8	.35			1.1	---
	Rng	6-8	50-65	21-35	14-15			7.6-9.2	---
	N	2	2	2	2	1	1	2	---
A12	Ave	9	55.4	28.3	16.2	16.5	14.5	7.4	---
	S D	2.8	6.2	5.2	1.1				---
	Rng	7-11	51-60	25-32	15-17				---
	N	2	2	2	2	1	1	1	---
A13	Ave	14.5	52.7	30.8	16.5	15.7	13.8	7.9	---
	S D	2.1	8.4	7.7	.85			1.3	---
	Rng	13-16	46-59	25-36	16-17			7-9	---
	N	2	2	2	2	1	1	2	---
AC	Ave	14	44.9	35.1	20.0	14.8	12.6	8.85	---
	S D	---	10.7	9.3	1.6			2.1	---
	Rng	14	37-53	28-42	19-21			7-10	---
	N	2	2	2	2	1	1	2	---
C1	Ave	6	49.5	31.1	19.3	---	---	8.7	---
	S D	1.4	18.2	15.7	2.5	---	---	2.9	---
	Rng	5-7	37-62	20-42	17-21	---	---	6-11	---
	N	2	2	2	2	---	---	2	---
C2	Ave	10	53.5	30.2	16.5	---	---	7.95	---
	S D	---	21.8	19.9	1.9	---	---	2.3	---
	Rng	10	38-69	16-44	15-18	---	---	6.3-9.6	---
	N	2	2	2	2	---	---	2	---
C3	Ave	8	82.1	9.8	8.1	---	---	3.9	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Central Point — TAXONOMIC NAME: Pachic Haploxeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)		---%			%	(ppm)			Meq/100g				(NH_4OAc)	(Σ Cat)	
Ap	Ave	6.3	6.2	3.6	.15	24.3	---	15.2	11.2	2.8	.18	.35	---	15.7	93.0	---	4.0
	S D	.21	1.3	.78	.03	.71	---		.42	.28	.04	.10	---	.21	5.3	---	.28
	Rng	6.1-6.4	5.2-7.1	3.0-4.1	.12-.17	24-25	---		11-12	2-3	.1-.2	.2-.4	---	15-16	89-97	---	3.8-4.2
	N	2	2	2	2	2	---	1	2	2	2	2	---	2	2	---	2
A12	Ave	6.05	4.8	2.75	.109	25.4	---	14.5	11.5	3.2	.18	.30	---	16.4	92.6	---	3.6
	S D	.07	.64	.35	.01	.78	---		.42	---	.11	.17	---	---	.85	---	.14
	Rng	6.0-6.1	4.3-5.2	2.5-3	.1-.2	25-26	---		11-12	3.2	.1-.26	.1-.5	---	16.4	92-93	---	3.5-3.7
	N	2	2	2	2	2	---	1	2	2	2	2	---	2	2	---	2
A13	Ave	6.45	2.65	1.55	.062	25.8	---	17.0	10.1	4.15	.19	.28	---	14.8	96.4	---	2.4
	S D	.07	.07	.07	.02	5.1	---		2.3	.07	.1	.14	---	1.3	5.1	---	.6
	Rng	6.4-6.5	2.6-2.7	1.5-1.6	.05-.08	22-30	---		8-12	4.1-4.2	.1-.3	.1-.4	---	14-16	93-100	---	2-2.8
	N	2	2	2	2	2	---	1	2	2	2	2	---	2	2	---	2
AC	Ave	6.7	1.4	.85	.037	23.7	---	11.2	9.8	5.0	.21	.27	---	14.5	100	---	1.9
	S D	.14	.14	.07	.005	5.2	---		2.5	.57	.13	.13	---	3.1	---	---	.28
	Rng	6.6-6.8	1.3-1.5	.8-.9	.03-.04	20-27	---		8-12	4-6	.1-.3	.1-.4	---	12-17	100	---	1.7-2.1
	N	2	2	2	2	2	---	1	2	2	2	2	---	2	2	---	2
C1	Ave	6.8	.75	.45	.023	19.9	---	9.0	9.6	4.8	.23	.24	---	14.0	94.7	---	2.0
	S D	.28	.35	.21	.001	10.5	---		4.3	2.0	.11	.13	---	3.6	7.5	---	.07
	Rng	6.6-7	.5-1	.3-.6	.02-.03	12-27	---		6-13	3-6	.1-.3	.1-.33	---	11-17	89-100	---	1.9-2
	N	2	2	2	2	2	---	1	2	2	2	2	---	2	2	---	2
C2	Ave	7.0	.6	.35	.018	19.4	---	7.8	10.1	5.1	.30	.22	---	12.5	100	---	2.15
	S D	.57	.28	.21	---	11.7	---		4.0	1.6	.26	.08	---	3.3	---	---	.50
	Rng	6.6-7.4	.4-.8	.2-.5	.018	11-28	---		7-13	4-6	.1-.5	.1-.3	---	10-15	100	---	1.8-2.5
	N	2	2	2	2	2	---	1	2	2	2	2	---	2	2	---	2
C3	Ave	6.7	.3	.2	.010	20	---	---	4.1	2.5	.19	.12	---	6.9	100	---	1.6
	S D						---	---					---			---	
	Rng						---	---					---			---	
	N	1	1	1	1	1	---	---	1	1	1	1	---	1	1	---	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Chehalis

TAXONOMIC NAME: Cumulic Ultic Haploxeroll

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------	---% H_2O---	----------	(g/cc)
Ap	Ave	7.75	9.6	60.3	30.2	---	---	17.0	---
	S D	.96	7.0	7.4	.69	---	---	/	---
	Rng	7-9	4-18	50-66	29-31	---	---	/	---
	N	4	4	4	4	---	---	1	---
A11-A13	Ave	10.0	8.9	56.3	34.8	---	---	19.35	---
	S D	3.4	4.1	5.3	3.4	---	---	.07	---
	Rng	6-14	3-12	51-62	30-38	---	---	19-20	---
	N	4	4	4	4	---	---	2	---
AC	Ave	15	10.3	50.2	39.5	---	---	20.2	---
	S D	/	/	/	/	---	---	/	---
	Rng	/	/	/	/	---	---	/	---
	N	1	1	1	1	---	---	1	---
A3	Ave	7	5.5	62.1	32.3	---	---	---	---
	S D	/	/	/	/	---	---	---	---
	Rng	/	/	/	/	---	---	---	---
	N	1	1	1	1	---	---	---	---
B21-B22	Ave	8.25	4.1	65.1	30.7	---	---	---	---
	S D	2.0	1.5	1.9	2.2	---	---	---	---
	Rng	6-11	2.2-5.9	62-66	28-33	---	---	---	---
	N	4	4	4	4	---	---	---	---
B23-B3	Ave	16.3	9.7	62.9	27.4	---	---	---	---
	S D	8.5	8.0	3.9	4.2	---	---	---	---
	Rng	8-25	2-18	57-66	23-32	---	---	---	---
	N	3	3	3	3	---	---	---	---
C1	Ave	9	17.4	57.0	25.6	---	---	---	---
	S D	1.4	5.9	---	5.9	---	---	---	---
	Rng	8-10	13-22	57.0	21-30	---	---	---	---
	N	2	2	2	2	---	---	---	---
C	Ave	16	8.6	57.5	33.9	---	---	22.1	---
	S D	1.4	4.0	7.7	9.0	---	---	/	---
	Rng	15-17+	5-13	48-64	27-44	---	---	/	---
	N	3	3	3	3	---	---	1	---
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Chehalis TAXONOMIC NAME: Cumulic Ultic Haploxeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	---%---				%	(ppm)	---	---	--Meq/100g--	---	---	---	(NH_4OAc)	(Σ Cat)	
Ap	Ave	6.23	3.3	3.6	.2	18.0	---	---	17.5	8.5	.324	.73	---	31.1	86.7	---	2.1
	S D	1.9	.5				---	---	1.9	1.4	.09	.30	---	1.4	5.8	---	.38
	Rng	6.1-6.5	3-3.9				---	---	15-19	7-10	.2-.4	.4-1.1	---	29-32	79-92	---	1.9-2.7
	N	4	3	1	1	1	---	---	4	4	4	4	---	4	4	---	4
A11-A13	Ave	6.22	5.23	2.93	.197	16.6	5.0	9.7	17.9	8.3	.31	.40	---	23.8	79.6	---	2.3
	S D	.30	2.0	.91	.09	6.5		.50	4.7	1.5	.10	.25	---	4.7	7.6	---	1.0
	Rng	5.8-6.4	3.8-6.7	2.4-4	.1-.3	12-24		9.3-10	15-25	6-10	.2-.4	.2-.7	---	29-39	68-84	---	1.5-3.8
	N	4	2	3	3	3	1	2	4	4	4	4	---	4	4	---	4
AC	Ave	6.1	---	2.4	.1	24	---	19.4	15.0	11.0	.4	.2	---	31.4	84.7	---	1.4
	S D		---				---						---			---	
	Rng		---				---						---			---	
	N	1	---	1	1	1	---	1	1	1	1	1	---	1	1	---	1
A3	Ave	6.0	2.03	1.25	.11	11.3	3.1	---	19.6	6.7	.28	.18	---	31.2	86	---	2.9
	S D							---					---			---	
	Rng							---					---			---	
	N	1	1	1	1	1	1	---	1	1	1	1	---	1	1	---	1
B21-B22	Ave	6.63	1.73	---	---	---	---	---	16.1	11.5	.50	.34	---	30.7	92.6	---	1.4
	S D	.05	.63	---	---	---	---	---	1.4	.41	.12	.04	---	2.3	4.4	---	.18
	Rng	6.6-6.7	.9-2.4	---	---	---	---	---	14-18	11-12	.4-.6	.3-.4	---	28-33	89-97	---	1.2-1.6
	N	4	4	---	---	---	---	---	4	4	4	4	---	4	4	---	4
B23-B3	Ave	6.7	1.6	---	---	---	---	---	14.8	11.7	.60	.23	---	28.8	94.9	---	1.3
	S D	.1	.45	---	---	---	---	---	1.4	1.2	.10	.06	---	2.6	3.2	---	.15
	Rng	6.6-6.8	1.1-2.0	---	---	---	---	---	13-16	10-13	.5-.7	.2-.3	---	28-32	91-98	---	1.1-1.4
	N	3	3	---	---	---	---	---	3	3	3	3	---	3	3	---	3
C1	Ave	6.35	1.5	1.07	.1	10.7	3.2	---	15.3	8.7	.4	.24	---	27.0	91.4	---	1.9
	S D	.35	.28					---	4.4	2.0	.14	.08	---	2.9	2.0	---	1.0
	Rng	6.1-6.6	1.3-1.7					---	12-19	7.2-10	.3-.5	.1-.3	---	25-29	90-93	---	1.2-2.6
	N	2	2	1	1	1	1	---	2	2	2	2	---	2	2	---	2
C	Ave	5.83	1.36	.88	.045	13.5	3.0	22.8	15.0	10.7	.44	.22	---	30.4	86.9	---	1.5
	S D	.76	.25		.05	3.5			2.3	2.3	.09	.07	---	2.7	8.1	---	.6
	Rng	5-6.5	1.1-1.6		.01-.08	11-16			13-18	8-12	.3-.5	.15-.3	---	28-33	77-93	---	1.1-2.2
	N	3	3	1	2	2	1	1	3	3	3	3	---	3	3	---	3
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Chenoweth

TAXONOMIC NAME: Typic Haploxeroll

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density	pH 1:10	Elect. Cond.	Moisture at Sat.
		(cm)	----------%----------			----------% H_2O----------			(g/cc)			
Ap	Ave	15	51.6	37.2	11.3	29.6	16.2	6.45	---	6.25	.65	33.1
	S D	---	3.7	1.3	2.4	.28	.85	.50	---	.35	.21	2.9
	Rng	15	49-54	36-38	9-13	29-30	15-17	6-7	---	6-6.5	.5-.8	31-35
	N	2	2	2	2	2	2	2	---	2	2	2
Alm	Ave	10	52.9	36.5	10.6	25.1	15.2	6.2	---	6.6	.2	26.1
	S D								---			
	Rng								---			
	N	1	1	1	1	1	1	1	---	1	1	1
AB	Ave	16.5	54.6	33.3	12.1	27.3	16.4	6.8	---	6.4	.25	28.2
	S D	2.1	10.5	8.1	2.4	1.8	1.8	.78	---	.14	.07	.28
	Rng	15-18	47-62	27-39	10-14	26-29	15-18	6-7	---	6.3-6.5	.2-.3	28-29
	N	2	2	2	2	2	2	2	---	2	2	2
B21	Ave	27.5	51.9	35.8	12.4	27.1	16.0	7.0	---	6.45	.23	29.0
	S D	9.2	4.1	2.9	1.2	3.5	2.1	1.1	---	.07	.07	.35
	Rng	21-34	49-55	33-38	11-13	24-30	14-18	6-8	---	6.4-6.5	.2-.3	28-30
	N	2	2	2	2	2	2	2	---	2	2	2
B22	Ave	40.5	52.9	36.2	11.0	28.5	15.8	6.7	---	6.5	.2	28.9
	S D	3.5	7.9	7.0	.92	3.8	2.8	.92	---	---	---	.64
	Rng	38-43	47-59	31-41	10-12	25-31	13-18	6-7	---	6.5	.2	28-30
	N	2	2	2	2	2	2	2	---	2	2	2
B3	Ave	21.0	55.4	35.6	9.1	28.5	15.3	6.3	---	6.5	.1	28.2
	S D	1.4	9.0	9.2	.21	3.6	2.3	.64	---	---	---	2.3
	Rng	20-22	49-62	29-42	8-10	26-31	13-17	5-7	---	6.5	.1	26-30
	N	2	2	2	2	2	2	2	---	2	2	2
C11	Ave	45	59.5	32.8	7.8	28.5	13.9	6.0	---	6.5	.1	29.7
	S D	8.5	6.9	7.8	.92	5.5	2.0	.35	---	---	---	1.2
	Rng	39-51	54-64	27-38	7-9	24-32	12-15	5-6	---	6.5	.1	28-31
	N	2	2	2	2	2	2	2	---	2	2	2
C12	Ave	45.5	64.3	30.2	5.6	27.1	12.6	5.7	---	6.45	.15	28.9
	S D	21.9	7.4	9.1	1.8	5.8	.57	.21	---	.07	.07	3.5
	Rng	30-61	59-70	23-37	4-7	23-31	12-13	5-6	---	6.4-6.5	.1-.2	26-31
	N	2	2	2	2	2	2	2	---	2	2	2
C2	Ave	65.5+	71.7	35.4	3.0	23.6	9.9	4.4	---	6.45	.25	31.5
	S D	43.1	11.7	13.0	1.3	10.6	2.5	.50	---	.07	.07	1.2
	Rng	35-96	63-80	16-35	2-4	16-31	8-12	4-5	---	6.4-6.5	.2-.3	30-33
	N	2	2	2	2	2	2	2	---	2	2	2

SOIL SERIES: Chenoweth TAXONOMIC NAME: Typic Haploxeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%	----------		%	(ppm)	----------	----------	--Meq/100g--	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
Ap	Ave	6.3	---	1.2	.09	12.6	---	---	9.1	2.85	.25	1.65	4.15	17.9	77.7	76.9	3.2
	S D	.42	---	.70	.03	3.5	---	---	.14	.07	.07	.07	.21	.64	2.3	.99	.14
	Rng	6-6.6	---	.7-1.7	.06-.12	10-15	---	---	9-9.2	2.8-2.9	.2-.3	1.6-1.7	4-4.3	17-19	76-80	76-78	3.1-3.3
	N	2	---	2	2	2	---	---	2	2	2	2	2	2	2	2	2
Alm	Ave	6.6	---	.75	.06	12.5	---	---	9.5	2.5	.1	1.4	3.1	16.8	80.3	81.3	3.8
	S D		---				---	---									
	Rng		---				---	---									
	N	1	---	1	1	1	---	---	1	1	1	1	1	1	1	1	1
AB	Ave	6.6	---	.47	.046	9.9	---	---	10.7	2.3	.25	1.1	3.2	18.4	77.9	81.7	5.0
	S D	.14	---	.21	.01	1.4	---	---	.85	.64	.07	.14	.14	1.4	5.2	.42	1.8
	Rng	6.5-6.7	---	.3-.6	.03-.06	9-11	---	---	10-11	1-3	.2-.3	1-1.2	3.1-3.3	17-20	74-82	81-82	3.7-6.3
	N	2	---	2	2	2	---	---	2	2	2	2	2	2	2	2	2
B21	Ave	6.8	---	---	.044	7.7	---	---	10.4	2.45	.3	.8	2.65	17.6	79.6	84.1	4.7
	S D	---	---	---			---	---	2.1	.78	.14	.14	.21	2.2	.64	.50	2.3
	Rng	6.8	---	.17-.34			---	---	8-12	2-3	.2-.4	.7-.9	2.5-2.8	16-19	79-80	83-85	3-6.3
	N	2	---	2	1	1	---	---	2	2	2	2	2	2	2	2	2
B22	Ave	6.8	---	.165	---	---	---	---	10.3	2.45	.25	.70	2.9	16.9	81.0	82.8	4.5
	S D	.07	---	.05	---	---	---	---	2.8	.50	.07	.14	1.0	3.0	.85	2.3	2.1
	Rng	6.7-6.8	---	.1-.2	---	---	---	---	8-12	2-3	.2-.3	.6-.8	2.2-2.6	14-19	80-82	81-85	3-6
	N	2	---	2	---	---	---	---	2	2	2	2	2	2	2	2	2
B3	Ave	6.8	---	.11	---	---	---	---	11.3	1.7	.2	.45	2.2	16.6	82.2	85.9	7.1
	S D	.14	---	.01	---	---	---	---	2.8	.42	---	.07	.28	2.8	.92	3.7	3.4
	Rng	6.7-6.9	---	.1-.2	---	---	---	---	9-13	1.4-2	.2	.4-.5	2-2.4	14-19	81-83	83-89	4-10
	N	2	---	2	---	---	---	---	2	2	2	2	2	2	2	2	2
C11	Ave	6.7	---	.09	---	---	---	---	10.6	2.4	.3	.45	1.9	15.9	86.2	87.7	6.2
	S D	.14	---	.01	---	---	---	---	3.3	1.5	.14	.07	.14	2.1	.85	2.1	5.3
	Rng	6.6-6.8	---	.08-.1	---	---	---	---	8-13	1-4	.2-.4	.4-.5	1.8-2	14-18	85-87	86-89	2-10
	N	2	---	2	---	---	---	---	2	2	2	2	2	2	2	2	2
C12	Ave	7.05	---	.085	---	---	---	---	7.5	4.5	.2	.3	1.4	15.7	80.0	89.9	1.65
	S D	.07	---	.063	---	---	---	---	.85	.28	---	---	.14	1.8	1.8	1.8	.07
	Rng	7-7.1	---	.04-.13	---	---	---	---	7-8	4-5	.2	.3	1.3-1.5	14-17	78-81	88-91	1.6-1.7
	N	2	---	2	---	---	---	---	2	2	2	2	2	2	2	2	2
C2	Ave	7.05	---	.035	---	---	---	---	5.6	4.8	.70	.15	.70	13.2	85.4	94.7	1.15
	S D	.07	---	.02	---	---	---	---	.99	1.1	.57	.07	.71	2.1	1.3	4.9	.07
	Rng	7-7.1	---	.02-.05	---	---	---	---	4.9-6.3	4-5.6	.3-1.1	.1-.2	.2-1.2	11-15	84-86	91-98	1.1-1.2
	N	2	---	2	---	---	---	---	2	2	2	2	2	2	2	2	2

SOIL SERIES: Cherryhill

TAXONOMIC NAME: Ultic Haploxeralf

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
Alp	Ave	14.0	38.9	51.4	9.8	24.6	17.7	4.9	---
	S D	2.2	1.6	.78	.85	.35	.14	.28	---
	Rng	11-15	37-40	50-52	9-11	24.3-24.8	17.6-17.8	4.7-5.1	---
	N	3	2	2	2	2	2	2	---
A12	Ave	14.0	35.9	52.7	11.4	26.3	18.3	5.1	---
	S D	.71							---
	Rng	13-15							---
	N	2	1	1	1	1	1	1	---
B11	Ave	12.1	38.1	50.8	11.2	25.5	17.7	5.45	---
	S D	1.8	1.1	.78	1.9	.91	.57	.78	---
	Rng	9-15	37-40	50-52	9-13	24-26	17-18	4.9-6	---
	N	2	2	2	2	2	2	2	---
B12	Ave	17.5	40	47.4	12.4	25.2	17.7	5.95	---
	S D	10.6	3.0	6.4	3.4	2.3	1.6	1.5	---
	Rng	10-25	38-42	43-52	10-15	23-27	16-19	5-7	---
	N	2	2	2	2	2	2	2	---
B21	Ave	14	43	39.5	17.5	25.8	18.9	8.1	---
	S D	5.6	2.8	10.0	7.3	3.8	4.0	3.0	---
	Rng	10-18	41-45	32-47	12-27	23-29	16-22	6-10	---
	N	2	2	2	2	2	2	2	---
B22	Ave	13	41.3	41.4	17.3	24.9	17.8	7.9	---
	S D								---
	Rng								---
	N	1	1	1	1	1	1	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Cherryhill

TAXONOMIC NAME: Ultic Haploxeralf

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---	----------		%	(ppm)	----------	----------	---Meq/100g---	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
Alp	Ave	6.57	1.1	.71	.051	13.9	---	38.6	8.6	1.15	.2	.9	3.25	12.4	81.4	72.5	5.5
	S D	.15		.099	.003	1.13	---		4.2	.35	.14	.14	.35	1.6	17.6	.71	.96
	Rng	6.4-6.7		.6-.8	.04-.05	13-15	---		5-14	.9-1.4	.1-.3	.8-1.0	3-3.5	11-14	68-94	72-73	4.8-6.2
	N	3	1	2	2	2	---	1	3	2	2	2	2	2	2	2	2
A12	Ave	6.68	.8	.31	.034	9.1	---	7.5	9.6	1.3	.2	.7	2.6	11.7	70.1	76	4.6
	S D	.07					---		5.1								
	Rng	6.6-6.7					---		6-13								
	N	2	1	1	1	1	---	1	2	1	1	1	1	1	1	1	1
B11	Ave	6.55	---	.30	.038	11.3	---	---	5.5	1.15	.25	.65	2.75	11.5	65.7	73.5	5.3
	S D	.07	---	.18			---	---	.14	.50	.21	.07	.35	.28	5.9	3.5	2.4
	Rng	6.5-6.6	---	.17-.43			---	---	5.4-5.6	.8-1.5	.1-.4	.6-.7	2.5-3.0	11-12	61-70	71-76	3.6-7.0
	N	2	---	2	1	1	---	---	2	2	2	2	2	2	2	2	2
B12	Ave	6.5	---	.18	---	---	---	---	4.9	1.6	.2	.6	2.7	11.4	63.8	73	4.5
	S D	.14	---	.014	---	---	---	---	---	1.3	---	---	.42	1.1	4.8	---	3.5
	Rng	6.4-6.6	---	.17-.19	---	---	---	---	4.9	.7-2.5	.2	.6	2.4-3	10-12	60-67	73	2-7
	N	2	---	2	---	---	---	---	2	2	2	2	2	2	2	2	2
B21	Ave	6.2	---	.12	---	---	---	---	4.9	2.7	.25	.6	3.1	13.2	63.6	72	1.45
	S D	.28	---	---	---	---	---	---	.85	2.5	.07	---	.92	4.7	4.2	2.8	.35
	Rng	6-6.4	---	.12	---	---	---	---	4.3-5.5	.9-4.5	.3-.3	.6	2.4-3.7	10-17	60-67	11-75	1.2-1.7
	N	2	---	2	---	---	---	---	2	2	2	2	2	2	2	2	2
B22	Ave	6.3	---	.08	---	---	---	---	4.7	1.6	.1	.6	3.1	12.7	55.1	69	2.9
	S D		---		---	---	---	---									
	Rng		---		---	---	---	---									
	N	1	---	1	---	---	---	---	1	1	1	1	1	1	1	1	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Chesnimnus

TAXONOMIC NAME: Calcic Argixeroll

Horizon	Stat.	Horizon Thickness (cm)	Sand %	Silt %	Clay %	Water at Saturation % H_2O	.33 Atm. % H_2O	15 Atm. % H_2O	Bulk Density (g/cc)	Bulk Density (1/3 bar)	Carbonate as $CaCO_3$	Electrical Conductivity	Coarse Frag. 2-19 % of <76 mm
Ap	Ave	16.5	31.0	49.5	19.6	53.5	30.9	12.9	1.34	1.24	---	.37	5.0
	S D	2.1	7.8	5.8	2.1	8.6		2.5			---	.07	1.4
	Rng	15-18	25-36	45-54	18-21	47-60		11-15			---	.32-.42	4-6
	N	2	2	2	2	2	1	2	1	1	---	2	2
B2t	Ave	15	28.3	42.7	29.1	56.3	26.0	15.1	1.45	1.30	---	.145	4.5
	S D	---	3.6	8.3	4.7	1.7		.57			---	.04	2.1
	Rng	15	26-31	37-49	26-32	55-58		14-16			---	.12-.17	3-6
	N	2	2	2	2	2	1	2	1	1	---	2	2
B3	Ave	22	32.2	44.3	23.6	50.2	25.2	12.0	1.43	1.28	1.5	.23	4.7
	S D	15.6	5.4	4.5	.92	4.9		2.1			.71	.01	3.5
	Rng	11-33	28-36	41-48	22-24	46-54		10-14			1-2	.22-2.4	2-7
	N	2	2	2	2	2	1	2	1	1	2	2	2
C1ca	Ave	34	31.4	36.8	32.0	54.0	29.2	15.6	1.34	1.24	13.5	.275	5.0
	S D	19.8	7.3	16.5	9.1	6.6		1.7			4.9	.007	1.4
	Rng	20-48	26-36	25-49	25-38	49-59		14-17			10-17	.27-.28	4-6
	N	2	2	2	2	2	1	2	1	1	2	2	2
C2ca	Ave	27.0	49.3	33.0	17.8	48.4	---	14.5	---	---	30.5	.46	20.5
	S D	12.7	4.2	1.7	2.5	1.6	---	3.3	---	---	.71	.08	17.6
	Rng	18-36	46-52	31-34	16-20	47-50	---	12-16	---	---	30-31	.4-.52	8-33
	N	2	2	2	2	2	---	2	---	---	2	2	2
IIC3	Ave	15+	82.5	12.9	4.6	24.1	---	4.0	---	---	3	.38	52
	S D	---					---		---	---			
	Rng	15+					---		---	---			
	N	2	1	1	1	1	---	1	---	---	1	1	1
	Ave												
	S D												
	Rng												
	N												
	Ave												
	S D												
	Rng												
	N												
	Ave												
	S D												
	Rng												
	N												

SOIL SERIES: Chesnimnus

TAXONOMIC NAME: Calcic Argixeroll

Horizon	Stat.	pH	pH	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	(1:10)	---%---			%	(ppm)	---Meq/100g---						(NH_4OAc)	(Σ Cat)	
Ap	Ave	6.85	---	2.0	.174	11.5	1.1	---	19.3	3.7	.28	.8	3.3	28.9	83.0	88.0	5.3
	S D	.07	---	.52	.04	.71		---	3.3	.21	.07	.28	.99	3.5	2.8	1.4	.57
	Rng	6.8-6.9	---	1.6-2.4	.1-.2	11-12		---	17-22	3.5-3.8	.2-.3	.6-1	2.6-4.0	26-31	81-85	87-89	4.9-5.7
	N	2	---	2	2	2	1	---	2	2	2	2	2	2	2	2	2
B2t	Ave	7.1	7.6	.615	.07	9	1.2	---	23.0	8.1	.35	.55	2.4	34.8	91.5	93.0	3.0
	S D	.50		.12	.01	---		---	.64	2.0	.07	.07	.99	.57	6.4	2.8	.64
	Rng	6.7-7.4		.5-.7	.06-.08	9		---	22-24	6.7-9.5	.3-.4	.5-.6	1.7-3.1	34-35	89-96	91-95	2.5-3.4
	N	2	1	2	2	2	1	---	2	2	2	2	2	2	2	2	2
B3	Ave	8.0	8.6	.42	.05	8	1.1	---	29.8	8.0	.3	.4	---	31.3	---	100	3.8
	S D	.28	.21	.21	.02	---		---	3.0	.64	---	---	---	5.0	---	---	.71
	Rng	7.8-8.2	8.4-8.7	.2-.6	.03-.07	8		---	27-32	7.5-8.4	.3	.4	---	28-34	---	100	3.3-4.3
	N	2	2	2	2	2	1	---	2	2	2	2	---	2	---	2	2
C1ca	Ave	8.2	8.8	.285	---	---	.6	---	34.2	8.9	.4	.30	---	32.9	---	100	3.9
	S D	---	---	.08	---	---		---	4.2	1.8	---	.28	---	4.4	---	---	.28
	Rng	8.2	8.8	.2-.4	---	---		---	31-37	7-10	.4	.1-.5	---	30-36	---	100	3.7-4.1
	N	2	2	2	---	---	1	---	2	2	2	2	---	2	---	2	2
C2ca	Ave	8.25	8.8	.345	---	---	.3	---	27.3	5.9	.4	.15	---	23.0	---	100	5.5
	S D	.21	.14	.12	---	---		---	5.4	2.8	---	.07	---	3.7	---	---	3.5
	Rng	8.1-8.4	8.7-8.9	.2-.4	---	---		---	23-31	4-8	.4	.1-.2	---	20-26	---	100	3-8
	N	2	2	2	---	---	1	---	2	2	2	2	---	2	---	2	2
IIC3	Ave	8.5	8.9	.11	---	---	.7	---	18.2	4.5	0.4	0.2	---	16.6	---	160	4.0
	S D				---	---		---					---		---		
	Rng				---	---		---					---		---		
	N	1	1	1	---	---	1	---	1	1	1	1	---	1	---	1	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Chilcott

TAXONOMIC NAME: Abruptic Xerollic Durargid

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
Ap	Ave	13	12.3	65.4	22.3	---	---	10.6	---
	S D	---	1.7	3.5	5.2	---	---	1.2	---
	Rng	13	11-14	63-68	18-26	---	---	9-12	---
	N	2	2	2	2	---	---	2	---
A2	Ave	5	10.9	64.9	24.2	---	---	9.8	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
B2t	Ave	21.5	7.75	52.0	40.3	---	---	19.6	---
	S D	2.1	1.1	5.5	6.6	---	---	2.1	---
	Rng	20-23	7-9	48-56	36-45	---	---	18-21	---
	N	2	2	2	2	---	---	2	---
B3ca	Ave	13	8.1	58.4	33.4	---	---	17.3	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
C	Ave	8	38.1	50.3	11.6	---	---	15.6	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Chilcott TAXONOMIC NAME: Abruptic Xerollic Durargid

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	--------------%--------------				%	(ppm)	------------------------Meq/100g------------------------						(NH$_4$OAc)	(Σ Cat)	
Ap	Ave	6.45	.865	---	---	---	---	15.5	9.6	5.4	.25	2.14	3.3	7.7	100	83.9	1.75
	S D	.21	.19	---	---	---	---	6.4	.92	1.1	.13	.16	.14	1.2	---	2.1	.21
	Rng	6.3-6.6	.7-1.0	---	---	---	---	11-20	9-10	4-6	.1-.4	2.0-2.3	3.2-3.4	6.8-8.6	100	82-86	1.6-1.9
	N	2	2	---	---	---	---	2	2	2	2	2	2	2	2	2	2
A2	Ave	6.9	.47	---	---	---	---	7	8.2	5.2	.71	1.38	2.7	6.28	100	85.2	1.6
	S D			---	---	---	---										
	Rng			---	---	---	---										
	N	1	1	---	---	---	---	1	1	1	1	1	1	1	1	1	1
B2t	Ave	7.65	---	---	---	---	---	3	16.2	11.6	2.2	1.9	2.1	8.8	100	93.9	1.4
	S D	.21	---	---	---	---	---	1.4	--	.5	.26	.23	.99	1.3	---	2.7	---
	Rng	7.5-7.8	---	---	---	---	---	2-4	16.2	11-12	2.0-2.4	1.7-2.0	1.4-2.8	7.9-9.7	100	92-96	1.4
	N	2	---	---	---	---	---	2	2	2	2	2	2	2	2	2	2
B3ca	Ave	8.5	---	---	---	---	---	6	40.2	13.9	3.3	1.52	---	13.7	100	---	2.9
	S D		---	---	---	---	---						---			---	
	Rng		---	---	---	---	---						---			---	
	N	1	---	---	---	---	---	1	1	1	1	1	---	1	1	---	1
C	Ave	8.6	---	---	---	---	---	21	30.2	10.6	2.5	1.23	---	14.8	100	---	2.8
	S D		---	---	---	---	---						---			---	
	Rng		---	---	---	---	---						---			---	
	N	1	---	---	---	---	---	1	1	1	1	1	---	1	1	---	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
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	Ave																
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	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Clatsop

TAXONOMIC NAME: Histic Humaquept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	%	----------	----------	% H_2O	----------	(g/cc)
A1	Ave	14	1.4	57.7	40.9	---	---	25.4	---
	S D	1.8				---	---		---
	Rng	13-15				---	---		---
	N	2	1	1	1	---	---	1	---
C1	Ave	13	.6	50.4	49	---	---	27.2	---
	S D	1.4				---	---		---
	Rng	10-15				---	---		---
	N	2	1	1	1	---	---	1	---
C2	Ave	19	8.5	48	43.5	---	---	---	---
	S D	15.6				---	---	---	---
	Rng	8-30				---	---	---	---
	N	2	1	1	1	---	---	---	---
C3	Ave	18+	5.9	54.7	39.5	---	---	27.0	---
	S D		7.8	1.3	6.4	---	---		---
	Rng		.5-11.4	53-56	34-44	---	---		---
	N	1	2	2	2	---	---	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Clatsop TAXONOMIC NAME: Histic Humaquept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	-------	---%---	-------		%	(ppm)	-------	-------	--Meq/100g--	-------	-------	-------	(NH_4OAc)	(Σ Cat)	
A1	Ave	5.06	24.6	19.01	1.07	17.8	4.0	3.55	6.5	11.5	34.2	1.3	---	42.4	26.2	---	.85
	S D	.22	11.5					1.2	5.8	12.9	46.8	1.8	---	4.8	5.9	---	.63
	Rng	4.8-6.5	16-33					2-4.5	2-18	3-37	1-67	.2-4.8	---	39-49	21-36	---	.2-2
	N	5	5	1	1	1	1	4	6	6	2	6	---	6	5	---	6
C1	Ave	5.7	8.7	6.69	.67	10	2.0	---	11.0	17.3	24.3	2.68	---	42.0	24.8	---	.67
	S D		1.0					---	12.0	19.6	32.0	2.23	---	3.5		---	.1
	Rng		6-12					---	2-19	3-31	1.6-47	1-4	---	39-41		---	.6-.74
	N	1	2	1	1	1	1	---	2	2	2	2	---	2	1	---	2
C2	Ave	6.3	7.03	4.08	.33	12.25	2.0	---	5.9	13.4	20.1	2.7	---	48.4	17.0	---	.55
	S D							---	4.5	13.6	25.3	2.4	---	12.2		---	.21
	Rng							---	2-9	3.8-23	2-38	1-4.4	---	40-47		---	.4-.7
	N	1	1	1	1	1	1	---	2	2	2	2	---	2	1	---	2
C3	Ave	6.5	7.7	3.55	.22	15.2	2.6	---	6.45	18.5	16.5	2.9	---	36.9	72	---	.35
	S D		2.2					---	.21	3.6	18.0	2.7	---	.63		---	.07
	Rng		6-9					---	6.3-6.6	16-21	4-29	1-5	---	36-38		---	.3-.4
	N	1	2	1	1	1	1	---	2	2	2	2	---	2	1	---	2
	Ave																
	S D																
	Rng																
	N																
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	Rng																
	N																

SOIL SERIES: Climax

TAXONOMIC NAME: Chromic Pelloxerert

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
A11	Ave	0-4	12.84	43.22	43.94	---	---	22.60	1.38
	S D					---	---		
	Rng					---	---		
	N	1	1	1	1	---	---	1	1
A12	Ave	4-20	13.88	36.60	49.52	---	---	22.51	1.38
	S D					---	---		
	Rng					---	---		
	N	1	1	1	1	---	---	1	1
C1	Ave	20-32	15.21	34.43	50.36	---	---	22.34	1.54
	S D					---	---		
	Rng					---	---		
	N	1	1	1	1	---	---	1	1
C2	Ave	32+	23.08	34.76	42.36	---	---	21.30	1.41
	S D					---	---		
	Rng					---	---		
	N	1	1	1	1	---	---	1	1
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Climax

TAXONOMIC NAME: Chromic Pelloxerert

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------%	----------	----------		%	(ppm)	----------	----------	--Meq/100g--	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
A11	Ave	6.3	7.71	---	0.27	---	---	2.5	23.00	21.08	---	.24	---	53.38	83	---	1.1
	S D			---		---	---				---		---			---	
	Rng			---		---	---				---		---			---	
	N	1	1	---	1	---	---	1	1	1	---	1	---	1	1	---	1
A12	Ave	6.2	4.94	---	0.17	---	---	2.4	24.50	21.50	---	.18	---	51.10	90	---	1.1
	S D			---		---	---				---		---			---	
	Rng			---		---	---				---		---			---	
	N	1	1	---	1	---	---	1	1	1	---	1	---	1	1	---	1
C1	Ave	6.2	2.34	---	0.09	---	---	3.8	24.00	21.50	---	.21	---	47.94	87	---	1.1
	S D			---		---	---				---		---			---	
	Rng			---		---	---				---		---			---	
	N	1	1	---	1	---	---	1	1	1	---	1	---	1	1	---	1
C2	Ave	6.4	0.92	---	0.06	---	---	3.6	20.50	15.00	---	.10	---	44.91	81	---	1.4
	S D			---		---	---				---		---			---	
	Rng			---		---	---				---		---			---	
	N	1	1	---	1	---	---	1	1	1	---	1	---	1	1	---	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
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	Ave																
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	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Cloquato

TAXONOMIC NAME: Cumulic Ultic Haploxeroll

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	%			% H_2O			(g/cc)
Ap	Ave	11.5	17.3	61.6	21.1	---	25.4	12.9	---
	S D	.70	12.6	10.2	2.4	---		3.0	---
	Rng	11-12	8-26	54-69	19-23	---		10-15	---
	N	2	2	2	2	---	1	2	---
B2	Ave	9	18	63.3	19.7	---	31.8	14.9	---
	S D	1.0	2.6	3.8	2.9	---	.07	.70	---
	Rng	8-10	15-20	61-68	17-23	---	31-32	14-16	---
	N	3	3	3	3	---	2	3	---
B31	Ave	10.0	27.2	54.9	17.9	---	27.3	12.8	---
	S D	2.8	7.9	12.0	4.1	---		.42	---
	Rng	8-12	21-33	46-64	15-21	---		12-13	---
	N	2	2	2	2	---	1	2	---
B32	Ave	10	9.05	72.8	18.2	---	---	14.6	---
	S D	2.8	5.4	4.1	1.3	---	---	.71	---
	Rng	8-12	5-13	70-76	17-19	---	---	14-15	---
	N	2	2	2	2	---	---	2	---
C	Ave	12	32.7	53.4	13.9	---	22.4	12	---
	S D	2.8	31.7	27.6	4.1	---		2.8	---
	Rng	10-14	10-55	34-73	11-17	---		10-14	---
	N	2	2	2	2	---	1	2	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Cloquato

TAXONOMIC NAME: Cumulic Ultic Haploxeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	---------	---%---	---------		%	(ppm)	---------	---------	--Meq/100g--	---------	---------	---------	(NH_4OAc)	(Σ Cat)	
Ap	Ave	5.9	---	1.59	.135	11.5	1.8	---	19.1	6.25	.4	.65	8.4	---	---	75.5	3.1
	S D	---	---	.02	.007	.71		---	2.5	.50	.14	.21	.14	---	---	2.1	.21
	Rng	5.9	---	1.5-1.6	1.3-1.4	11-12		---	17-21	6-7	.3-.5	.5-.8	8.3-8.5	---	---	74-77	2.9-3.2
	N	2	---	2	2	2	1	---	2	2	2	2	2	---	---	2	2
B2	Ave	6.2	---	.91	.091	10	1.9	---	19.5	6.7	.5	.23	7.1	---	---	79	3.0
	S D	.17	---	.22	.02	---	---	---	.95	.41	---	.06	1.1	---	---	2.6	.3
	Rng	6-6.3	---	.6-1.1	.07-.11	10	1.9	---	18-21	6.2-7	.5	.2-.3	6-8	---	---	77-82	2.7-3.3
	N	3	---	3	3	3	2	---	3	3	3	3	3	---	---	3	3
B31	Ave	6.4	---	.55	.057	9.5	1.8	---	18.3	6.4	.45	.2	5.7	---	---	81.5	3.0
	S D	---	---	.11	.007	.71		---	1.8	.5	.07	---	1.1	---	---	2.1	.5
	Rng	6.4	---	.4-.6	.05-.06	9-10		---	17-20	6-6.7	.4-.5	.2	5-6.4	---	---	80-83	2.6-3.3
	N	2	---	2	2	2	1	---	2	2	2	2	2	---	---	2	2
B32	Ave	6.35	---	.73	.076	10	---	---	19.5	7.3	.45	.2	5.35	---	---	83.5	2.9
	S D	.07	---	.06	.008	---	---	---	.14	.85	.07	---	.35	---	---	.70	.57
	Rng	6.3-6.4	---	.6-.8	.07-.08	10	---	---	19-20	6.7-7.9	.4-.5	.2	5.1-5.6	---	---	83-84	2.5-3.3
	N	2	---	2	2	2	---	---	2	2	2	2	2	---	---	2	2
C	Ave	6.45	---	.47	.062	10	1.7	---	16.7	7.25	.5	.2	4.9	---	---	83.5	2.3
	S D	.07	---	.18				---	2.8	1.6	---	---	1.3	---	---	.71	.14
	Rng	6.4-6.5	---	.3-.6				---	14-19	6-8	.5	.2	4-6	---	---	83-84	2.2-2.4
	N	2	---	2	1	1	1	---	2	2	2	2	2	---	---	2	2
	Ave																
	S D																
	Rng																
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	Ave																
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	Rng																
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	Ave																
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	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Cobleigh

TAXONOMIC NAME: Typic Rhodoxeralf

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density				
		(cm)	----------	%-	----------	----------	-% H_2O-	----------	(g/cc)				
A1	Ave	0-2	31.1	42.5	26.4	---	---	21.9	---				
	S D					---	---		---				
	Rng					---	---		---				
	N	1	1	1	1	---	---	1	---				
A3	Ave	2-6	31.2	43.6	25.2	---	33.5	20.9	1.5				
	S D					---							
	Rng					---							
	N	1	1	1	1	---	1	1	1				
B1	Ave	6-11	31.9	42.6	25.5	---	31.4	20.2	NSC				
	S D					---							
	Rng					---							
	N	1	1	1	1	---	1	1	1				
B21t	Ave	11-20	29.0	44.5	26.5	---	34.8	22.3	1.5				
	S D					---							
	Rng					---							
	N	1	1	1	1	---	1	1	1				
B22t	Ave	20-33	23.3	41.3	35.5	---	---	28.9	---				
	S D					---	---		---				
	Rng					---	---		---				
	N	1	1	1	1	---	---	1	---				
B3t	Ave	33-42	23.2	37.4	39.4	---	---	29.4	---				
	S D					---	---		---				
	Rng					---	---		---				
	N	1	1	1	1	---	---	1	---				
C1	Ave	42-54	14.7	50.6	34.7	---	---	31.4	---				
	S D					---	---		---				
	Rng					---	---		---				
	N	1	1	1	1	---	---	1	---				
	Ave												
	S D												
	Rng												
	N												
	Ave												
	S D												
	Rng												
	N												

SOIL SERIES: Cobleigh

TAXONOMIC NAME: Typic Rhodoxeralf

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	----%----	----------		%	(ppm)	----------	----------	Meq/100g	----------	----------	----------	(Σ Cat)	(NH_4OAc)	
A1	Ave	6.3	8.50	---	---	---	---	6	19.9	2.9	.10	1.43	17.3	---	58.4	---	6.9
	S D	/	/	---	---	---	---	/	/	/	/	/	/	---	/	---	/
	Rng	/	/	---	---	---	---	/	/	/	/	/	/	---	/	---	/
	N	1	1	---	---	---	---	1	1	1	1	1	1	---	1	---	1
A3	Ave	6.4	4.50	---	---	---	---	5	16.9	2.8	.10	1.81	15.8	---	57.8	---	6.0
	S D	/	/	---	---	---	---	/	/	/	/	/	/	---	/	---	/
	Rng	/	/	---	---	---	---	/	/	/	/	/	/	---	/	---	/
	N	1	1	---	---	---	---	1	1	1	1	1	1	---	1	---	1
B1	Ave	6.3	2.23	---	---	---	---	2	9.8	2.6	.10	1.16	12.3	---	52.6	---	3.8
	S D	/	/	---	---	---	---	/	/	/	/	/	/	---	/	---	/
	Rng	/	/	---	---	---	---	/	/	/	/	/	/	---	/	---	/
	N	1	1	---	---	---	---	1	1	1	1	1	1	---	1	---	1
B21t	Ave	6.3	---	---	---	---	---	2	7.8	3.1	.10	1.37	10.6	---	53.9	---	2.5
	S D	/	---	---	---	---	---	/	/	/	/	/	/	---	/	---	/
	Rng	/	---	---	---	---	---	/	/	/	/	/	/	---	/	---	/
	N	1	---	---	---	---	---	1	1	1	1	1	1	---	1	---	1
B22t	Ave	5.9	---	---	---	---	---	---	8.5	6.0	.19	1.26	12.2	---	56.7	---	1.4
	S D	/	---	---	---	---	---	---	/	/	/	/	/	---	/	---	/
	Rng	/	---	---	---	---	---	---	/	/	/	/	/	---	/	---	/
	N	1	---	---	---	---	---	---	1	1	1	1	1	---	1	---	1
B3t	Ave	5.3	---	---	---	---	---	2	4.1	5.8	.29	.74	16.6	---	39.7	---	.71
	S D	/	---	---	---	---	---	/	/	/	/	/	/	---	/	---	/
	Rng	/	---	---	---	---	---	/	/	/	/	/	/	---	/	---	/
	N	1	---	---	---	---	---	1	1	1	1	1	1	---	1	---	1
C1	Ave	5.3	---	---	---	---	---	2	3.4	7.0	.43	.58	10.6	---	51.8	---	.50
	S D	/	---	---	---	---	---	/	/	/	/	/	/	---	/	---	/
	Rng	/	---	---	---	---	---	/	/	/	/	/	/	---	/	---	/
	N	1	---	---	---	---	---	1	1	1	1	1	1	---	1	---	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Coburg

TAXONOMIC NAME: Pachic Ultic Argixeroll

Horizon	Stat.	Horizon Thickness (cm)	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density (g/cc)
			----------	%----------		----------	% H_2O----------		
Ap	Ave	0-7	15.7	54.6	29.8	---	---	14.9	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
B1	Ave	7-18	13.6	47.9	38.7	---	---	18.9	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
B21t	Ave	18-28	11.9	44.4	43.8	---	---	22.0	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
IIB22t	Ave	28-41	21.6	41.0	37.6	---	---	20.5	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
IIB3t	Ave	41-53	11.6	42.9	45.6	---	---	22.8	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
IIIC	Ave	53-65	39.3	43.8	17.1	---	---	12.9	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Coburg

TAXONOMIC NAME: Pachic Ultic Argixeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---	----------		%	(ppm)	----------	----------	Meq/100g	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
Ap	Ave	5.9	---	2.4	0.1	24.0	---	16.4	12.2	5.6	0.2	0.7	---	24.7	75.7	---	2.2
	S D		---				---						---			---	
	Rng		---				---						---			---	
	N	1	---	1	1	1	---	1	1	1	1	1	---	1	1	---	1
B1	Ave	5.8	---	1.7	T	---	---	11.4	15.1	7.2	0.2	0.5	---	24.6	93.4	---	2.1
	S D		---			---	---						---			---	
	Rng		---			---	---						---			---	
	N	1	---	1	1	---	---	1	1	1	1	1	---	1	1	---	1
B21t	Ave	5.9	---	0.8	T	---	---	10.7	17.1	9.6	0.3	0.4	---	37.7	72.1	---	1.8
	S D		---			---	---						---			---	
	Rng		---			---	---						---			---	
	N	1	---	1	1	---	---	1	1	1	1	1	---	1	1	---	1
IIB22t	Ave	6.1	---	0.2	0.1	2.0	---	6.0	18.5	10.6	0.7	0.5	---	30.9	98.1	---	1.7
	S D		---				---						---			---	
	Rng		---				---						---			---	
	N	1	---	1	1	1	---	1	1	1	1	1	---	1	1	---	1
IIB3t	Ave	6.1	---	0.3	T	---	---	6.4	19.3	12.2	0.8	0.6	---	37.1	88.8	---	1.6
	S D		---			---	---						---			---	
	Rng		---			---	---						---			---	
	N	1	---	1	1	---	---	1	1	1	1	1	---	1	1	---	1
IIIC	Ave	6.5	---	0.1	T	---	---	4.3	16.1	9.7	0.7	0.4	---	27.0	99.6	---	1.6
	S D		---			---	---						---			---	
	Rng		---			---	---						---			---	
	N	1	---	1	1	---	---	1	1	1	1	1	---	1	1	---	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Colestine

TAXONOMIC NAME: Typic Xerochrept

Horizon	Stat.	Horizon Thickness (cm)	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density (g/cc)
				%			% H_2O		
1	Ave S D Rng N	0-10 / 1	NO DATA AVAILABLE						
2	Ave S D Rng N	20-30 / 1	NO DATA AVAILABLE						
	Ave S D Rng N								
	Ave S D Rng N								
	Ave S D Rng N								
	Ave S D Rng N								
	Ave S D Rng N								
	Ave S D Rng N								
	Ave S D Rng N								

SOIL SERIES: Colestine TAXONOMIC NAME: Typic Xerochrept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	%	----------		%	(ppm)	----------	----------	Meq/100g	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
1	Ave	6.6	---	1.66	---	---	---	---	11.6	4.5	0.10	0.36	7.0	13.2	100.0	70.3	2.6
	S D		---		---	---	---	---									
	Rng		---		---	---	---	---									
	N	1	---	1	---	---	---	---	1	1	1	1	1	1	1	1	1
2	Ave	6.8	---	---	---	---	---	---	13.5	5.6	0.15	0.22	6.4	12.2	100.0	75.3	2.4
	S D		---	---	---	---	---	---									
	Rng		---	---	---	---	---	---									
	N	1	---	---	---	---	---	---	1	1	1	1	1	1	1	1	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
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	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Concord

TAXONOMIC NAME: Typic Ochraqualf

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	%	----------	----------	% H_2O	----------	(g/cc)
Ap-1	Ave	6.2	3.7	76.8	19.5	---	---	---	---
	S D	1.3				---	---	---	---
	Rng	5-8				---	---	---	---
	N	5	1	1	1	---	---	---	---
A2	Ave	7.4	4.5	75.5	20.0	---	---	---	---
	S D	1.1				---	---	---	---
	Rng	6-9				---	---	---	---
	N	5	1	1	1	---	---	---	---
B1	Ave	6.25	3.5	71.6	24.9	---	---	---	---
	S D	2.2				---	---	---	---
	Rng	3-8				---	---	---	---
	N	4	1	1	1	---	---	---	---
B2t	Ave	8.0	3.2	52.1	44.7	---	---	---	---
	S D	1.4				---	---	---	---
	Rng	6-9				---	---	---	---
	N	4	1	1	1	---	---	---	---
B3	Ave	8	2.6	57.6	39.8	---	---	---	---
	S D	4.5				---	---	---	---
	Rng	4-14				---	---	---	---
	N	4	1	1	1	---	---	---	---
C	Ave	15.25+	1.2	69.3	29.5	---	---	---	---
	S D	6.1				---	---	---	---
	Rng	10-24+				---	---	---	---
	N	4	1	1	1	---	---	---	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Concord

TAXONOMIC NAME: Typic Ochraqualf

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	---	%	---		%	(ppm)	---	---	Meq/100g	---	---	---	(NH_4OAc)	(Σ Cat)	
Ap-1	Ave	5.24	---	---	---	---	---	---	5.3	2.2	.082	.324	---	15.7	63	---	2.4
	S D	.30	---	---	---	---	---	---	1.8	.60	.03	.21	---	2.2		---	.5
	Rng	4.8-5.6	---	---	---	---	---	---	2.8-7.8	1.2-2.8	.04-.13	.2-.7	---	13-29		---	2.0-3.3
	N	5	---	---	---	---	---	---	5	5	5	5	---	5	1	---	5
A2	Ave	5.54	---	---	---	---	---	---	6.3	3.5	.16	.204	---	15.7	76	---	1.8
	S D	.18	---	---	---	---	---	---	1.6	.73	.07	.006	---	2.0		---	.67
	Rng	5.3-5.7	---	---	---	---	---	---	5-8.5	2.6-4.2	.1-.25	.2-.21	---	14-19		---	1.3-3.0
	N	5	---	---	---	---	---	---	5	5	5	5	---	5	1	---	5
B1	Ave	5.7	---	---	---	---	---	---	10.4	7.0	.325	.32	---	22.6	68	---	1.6
	S D	.18	---	---	---	---	---	---	1.7	1.7	.119	.29	---	5.4		---	.51
	Rng	5.6-5.9	---	---	---	---	---	---	8-12	5-8.8	.25-.3	.29-.35	---	18-30		---	1.1-2.3
	N	4	---	---	---	---	---	---	4	4	4	4	---	4	1	---	4
B2t	Ave	5.9	---	---	---	---	---	---	14.0	9.3	.25	.37	---	34.3	95	---	1.6
	S D	.6	---	---	---	---	---	---	6.9	4.7	.29	.12	---	7.6		---	.31
	Rng	5.4-6.7	---	---	---	---	---	---	4-20	2-13	.14-.84	.2-.5	---	28-45		---	1.3-1.9
	N	4	---	---	---	---	---	---	4	4	4	4	---	4	1	---	4
B3	Ave	6.5	---	---	---	---	---	---	14.7	9.3	.55	.32	---	31.9	91	---	1.5
	S D	.73	---	---	---	---	---	---	7.6	3.8	.29	.14	---	5.4		---	.36
	Rng	5.6-7.1	---	---	---	---	---	---	4-23	3-12	.2-.9	.1-.5	---	25-38		---	1.3-2.1
	N	4	---	---	---	---	---	---	4	4	4	4	---	4	1	---	4
C	Ave	6.9	---	---	---	---	---	---	16.2	11.9	.64	.36	---	26.2	100	---	1.4
	S D	.53	---	---	---	---	---	---	2.9	3.6	.30	.09	---	2.9		---	.42
	Rng	6-7.3	---	---	---	---	---	---	13-21	8-18	.3-1.2	.2-.5	---	22-31		---	.97-2.1
	N	6	---	---	---	---	---	---	6	6	6	6	---	6	1	---	6
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Condon

TAXONOMIC NAME: Typic Haploxeroll

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
Ap	Ave	5.2	22.9	60.3	16.8	35.0	26.6	9.1	---
	S D	2.0	5.9	5.8	1.2	3.2	1.8	.56	---
	Rng	3-7	13-29	54-70	15-18	30-37	24-30	8.3-9.6	---
	N	6	6	6	6	6	6	6	---
A11 & 12	Ave	5.0	19.1	64.4	16.6	42.3	27.6	9.4	---
	S D	1.3	.83	3.1	2.6	7.0	3.2	.49	---
	Rng	4.5-6.5	18-20	61-68	13-19	38-50	24-30	9-10	---
	N	3	3	3	3	3	3	3	---
A3-B1	Ave	4.0	20.3	61.1	18.7	37.6	26.2	9.8	---
	S D	2.0	5.9	6.7	1.1	2.2	2.0	.66	---
	Rng	3-7	12-22	52-69	17-20	35-40	23-28	9-11	---
	N	4	4	4	4	4	4	4	---
B2-21-22	Ave	6.6	18.0	61.2	20.7	37.9	27.6	11.5	---
	S D	1.7	3.7	4.9	2.8	1.4	1.3	2.3	---
	Rng	4-9	12-25	59-70	16-24	35-40	25-30	11-17	---
	N	8	8	8	8	8	8	8	---
B3	Ave	7.8	21.6	63.6	14.9	35.3	26.8	9.5	---
	S D	3.4	7.8	7.7	1.5	2.5	1.0	1.0	---
	Rng	3-11	13-33	51-72	12-16	32-39	26-29	8-11	---
	N	5	5	5	5	5	5	5	---
C	Ave	2	41.9	38.1	20.0	34.8	26.1	12.0	---
	S D								---
	Rng								---
	N	1	1	1	1	1	1	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Condon

TAXONOMIC NAME: Typic Haploxeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)		%			%	(ppm)			Meq/100g				(NH_4OAc)	(Σ Cat)	
Ap	Ave	6.4	---	.98	.089	11.0	---	---	10.7	5.1	.167	1.15	4.5	22.8	75.6	79.5	2.1
	S D	.04	---	.20	.014	.71	---	---	1.6	.65	.082	.30	.69	2.1	9.8	2.1	.20
	Rng	6.4-6.5	---	.6-1.2	.07-.10	10-12	---	---	8-12	4-6	.1-.3	.8-1.5	3.6-5.1	21-27	65-90	76-81	1.9-2.4
	N	6	---	6	6	6	---	---	6	6	6	6	6	6	6	6	6
A11 & 12	Ave	6.6	---	1.51	.129	11.3	---	---	12.2	5.7	.3	1.5	4.1	24.2	82.3	82.3	2.2
	S D	.26	---	.81	.049	1.6	---	---	.30	.76	.1	.62	.91	3.4	12.7	3.2	.30
	Rng	6.4-6.9	---	1.0-2.5	.1-.19	10-13	---	---	12-13	4.8-6.2	.2-.4	.8-2.0	3-5	22-28	68-92	80-86	1.9-2.5
	N	3	---	3	3	3	---	---	3	3	3	3	3	3	3	3	3
A3-B1	Ave	6.6	---	.73	.077	9.5	---	---	11.4	6.3	.15	.98	3.6	23.1	81.8	84	1.8
	S D	.20	---	.13	.008	.91	---	---	1.5	1.1	.1	.13	.42	.98	9.5	2.4	.19
	Rng	6.3-6.7	---	.6-.9	.06-.09	9-10	---	---	9-13	5-8	.1-.3	.8-1.1	3-4	21-24	69-92	81-86	1.6-2.0
	N	4	---	4	4	4	---	---	4	4	4	4	4	4	4	4	4
B2-21-22	Ave	6.86	---	.59	.068	8.6	---	---	14.9	6.7	.26	.86	2.9	26.1	87.4	88.5	2.4
	S D	.15	---	.17	.012	1.0	---	---	2.8	1.5	.14	.23	.53	2.7	8.6	1.9	1.1
	Rng	6.6-7.0	---	.4-.9	.04-.09	6-10	---	---	12-18	4-9	.1-.5	.5-1.2	2-4	22-30	75-98	86-91	1.6-3.0
	N	8	---	8	8	8	---	---	8	8	8	8	8	8	8	8	8
B3	Ave	7.02	---	.514	.063	8.2	---	---	14.1	7.5	.38	.68	1.68	25.3	90.4	93	1.9
	S D	.29	---	.096	.01	.62	---	---	2.5	.66	.13	.18	.54	3.0	11.6	1.4	.44
	Rng	6.6-7.3	---	.3-.7	.04-.07	7-9	---	---	12-18	7-9	.2-.5	.5-.9	1.2-2.6	21-29	77-102	91-95	1.7-2.6
	N	5	---	5	4	4	---	---	5	5	5	5	5	5	5	5	5
C	Ave	7.0	---	.38	---	---	---	---	16.7	9.5	0.4	0.5	2.5	27.0	100	92	1.8
	S D		---		---	---	---	---									
	Rng		---		---	---	---	---									
	N	1	---	1	---	---	---	---	1	1	1	1	1	1	1	1	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Coosbay

TAXONOMIC NAME: Andic Dystrochrept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
A1	Ave	13	19.5	59.5	21.1	---	---	28.7	---
	S D	---	12.8	14.3	1.6	---	---	3.7	---
	Rng	13	10-29	49-70	20-22	---	---	26-31	---
	N	2	2	2	2	---	---	2	---
A3	Ave	15	14.7	76.4	8.9	---	---	18.3	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
B1	Ave	22.5	25.6	56.6	17.9	---	---	25.0	---
	S D	3.5	4.7	4.3	9.1	---	---	1.8	---
	Rng	20-25	22-29	53-60	11-24	---	---	23-26	---
	N	2	2	2	2	---	---	1	---
B21	Ave	29.5	32.3	43.2	24.6	---	---	24.4	---
	S D	1.5	18.5	.92	19.4	---	---	.99	---
	Rng	28-31	19-45	42-44	11-38	---	---	23-25	---
	N	2	2	2	2	---	---	2	---
B22	Ave	26.5	31.1	56.8	22.1	---	---	22.0	---
	S D	9.2	2.1	12.4	10.3	---	---	2.2	---
	Rng	20-33	29-33	38-56	14-30	---	---	20-24	---
	N	2	2	2	2	---	---	2	---
C1	Ave	25	40.0	45.4	17.7	---	---	14.1	---
	S D	7.1	17.5	24.0	6.6	---	---	2.5	---
	Rng	20-30	25-50	28-63	13-22	---	---	12-16	---
	N	2	2	2	2	---	---	2	---
C2	Ave	20.5	44.1	43.4	12.5	---	---	16.0	---
	S D	3.5	34.2	33.7	.57	---	---	.42	---
	Rng	18-23	20-68	20-67	12-13	---	---	15-16	---
	N	2	2	2	2	---	---	2	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Coosbay

TAXONOMIC NAME: Andic Dystrochrept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---	----------		%	(ppm)	----------	----------	---Meq/100g---	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
A1	Ave	5.4	---	---	---	---	---	---	4.9	2.0	.55	.9	---	52.8	15.5	---	2.4
	S D		---	---	---	---	---	---	1.6	.57	.21	---	---	4.4	3.5	---	.14
	Rng		---	---	---	---	---	---	3.7-6.0	1.6-2.4	.4-.7	.9	---	49-56	13-18	---	2.3-2.5
	N	1	---	---	---	---	---	---	2	2	2	2	---	2	2	---	2
A3	Ave	4.6	---	---	---	---	---	---	1.6	.4	.4	.4	---	32.6	9	---	4.0
	S D		---	---	---	---	---	---					---			---	
	Rng		---	---	---	---	---	---					---			---	
	N	1	---	---	---	---	---	---	1	1	1	1	---	1	1	---	1
B1	Ave	5.2	---	---	---	---	---	---	2.1	1.1	.65	.5	---	33.5	13.5	---	3.2
	S D	.28	---	---	---	---	---	---	.84	.78	.07	.28	---	9.6	5.0	---	3.2
	Rng	5-5.4	---	---	---	---	---	---	1.5-2.7	.5-1.6	.6-.7	.3-.7	---	27-40	10-17	---	.9-5.4
	N	2	---	---	---	---	---	---	2	2	2	2	---	2	2	---	2
B21	Ave	4.95	---	---	---	---	---	---	1.9	2.3	.5	.25	---	25.9	19.5	---	2.5
	S D	.21	---	---	---	---	---	---	.85	2.8	.14	.07	---	2.1	16.3	---	2.6
	Rng	4.8-5.1	---	---	---	---	---	---	1.3-2.5	.3-4.2	.4-.6	.2-.3	---	24-28	8-31	---	.6-4.3
	N	2	---	---	---	---	---	---	2	2	2	2	---	2	2	---	2
B22	Ave	4.85	---	---	---	---	---	---	2.2	1.9	.55	.25	---	20.7	22.5	---	3.4
	S D	.07	---	---	---	---	---	---	.60	2.3	.07	.07	---	7.3	6.4	---	3.7
	Rng	4.8-4.9	---	---	---	---	---	---	1.8-2.6	.3-3.5	.5-.6	.2-.3	---	15-26	18-27	---	.74-6.0
	N	2	---	---	---	---	---	---	2	2	2	2	---	2	2	---	2
C1	Ave	4.7	---	---	---	---	---	---	2.5	.95	.5	.25	---	23.3	18.5	---	3.0
	S D	.28	---	---	---	---	---	---	.99	.64	.14	.07	---	12.0	2.1	---	.91
	Rng	4.5-4.9	---	---	---	---	---	---	1.8-3.2	.5-1.4	.4-.6	.2-.3	---	15-32	17-20	---	2.3-3.6
	N	2	---	---	---	---	---	---	2	2	2	2	---	2	2	---	2
C2	Ave	4.75	---	---	---	---	---	---	2.1	.85	.4	.25	---	23.9	15	---	3.1
	S D	.35	---	---	---	---	---	---	.57	.64	---	.07	---	7.3	1.4	---	1.7
	Rng	4.5-5.0	---	---	---	---	---	---	1.7-2.5	.4-1.3	.4	.2-.3	---	19-29	14-16	---	1.9-4.3
	N	2	---	---	---	---	---	---	2	2	2	2	---	2	2	---	2
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Courtrock

TAXONOMIC NAME: Calciorthidic Haploxeroll

Horizon	Stat.	Horizon Thickness (cm)	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density (g/cc)
			----------	-%-	----------	----------	-% H_2O-	----------	
Ap	Ave	7	---	---	---	---	---	---	---
	S D		---	---	---	---	---	---	---
	Rng		---	---	---	---	---	---	---
	N	1	---	---	---	---	---	---	---
A11 & 12	Ave	6	---	---	---	---	---	---	---
	S D	4.2	---	---	---	---	---	---	---
	Rng	3-9	---	---	---	---	---	---	---
	N	2	---	---	---	---	---	---	---
B21	Ave	10	---	---	---	---	---	---	---
	S D	2.8	---	---	---	---	---	---	---
	Rng	8-12	---	---	---	---	---	---	---
	N	2	---	---	---	---	---	---	---
B22	Ave	7.5	---	---	---	---	---	---	---
	S D	2.1	---	---	---	---	---	---	---
	Rng	6-9	---	---	---	---	---	---	---
	N	2	---	---	---	---	---	---	---
B23	Ave	6	---	---	---	---	---	---	---
	S D		---	---	---	---	---	---	---
	Rng		---	---	---	---	---	---	---
	N	1	---	---	---	---	---	---	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Courtrock

TAXONOMIC NAME: Calciorthidic Haploxeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	--%--	----------		%	(ppm)	----------	----------	--Meq/100g--	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
Ap	Ave	---	---	1.19	.081	14.7	---	---	---	---	---	---	---	---	---	---	---
	S D	---	---				---	---	---	---	---	---	---	---	---	---	---
	Rng	---	---				---	---	---	---	---	---	---	---	---	---	---
	N	---	---	1	1	1	---	---	---	---	---	---	---	---	---	---	---
A11 &12	Ave	---	---	.69	.047	14.9	---	---	---	---	---	---	---	---	---	---	---
	S D	---	---	.06	.0007	1.5	---	---	---	---	---	---	---	---	---	---	---
	Rng	---	---	.6-.8	.04-.05	14-16	---	---	---	---	---	---	---	---	---	---	---
	N	---	---	2	2	2	---	---	---	---	---	---	---	---	---	---	---
B21	Ave	---	---	.72	.048	14.7	---	---	---	---	---	---	---	---	---	---	---
	S D	---	---	.34	.017	1.9	---	---	---	---	---	---	---	---	---	---	---
	Rng	---	---	.4-1	.3-.6	13-16	---	---	---	---	---	---	---	---	---	---	---
	N	---	---	2	2	2	---	---	---	---	---	---	---	---	---	---	---
B22	Ave	---	---	.48	.029	17.3	---	---	---	---	---	---	---	---	---	---	---
	S D	---	---	.39	.024	1.3	---	---	---	---	---	---	---	---	---	---	---
	Rng	---	---	.2-.8	.01-.05	16-18	---	---	---	---	---	---	---	---	---	---	---
	N	---	---	2	2	2	---	---	---	---	---	---	---	---	---	---	---
B23	Ave	---	---	.61	.040	15.3	---	---	---	---	---	---	---	---	---	---	---
	S D	---	---				---	---	---	---	---	---	---	---	---	---	---
	Rng	---	---				---	---	---	---	---	---	---	---	---	---	---
	N	---	---	1	1	1	---	---	---	---	---	---	---	---	---	---	---
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Couse

TAXONOMIC NAME: Typic Haploxeroll

Horizon	Stat.	Horizon Thickness (cm)	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density (g/cc)
				%			% H_2O		
1	Ave S D Rng N	0-15 1	NO DATA AVAILABLE						
2	Ave S D Rng N	15-30 1	NO DATA AVAILABLE						
3	Ave S D Rng N	30-60 1	NO DATA AVAILABLE						
4	Ave S D Rng N	60-90 1	NO DATA AVAILABLE						
5	Ave S D Rng N	90-120 1	NO DATA AVAILABLE						
	Ave S D Rng N								
	Ave S D Rng N								
	Ave S D Rng N								
	Ave S D Rng N								

SOIL SERIES: Couse TAXONOMIC NAME: Typic Haploxeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	--------	---%---	-------		%	(ppm)	-------	--------	--Meq/100g---		-------	--------	(NH_4OAc)	(Σ Cat)	
1	Ave	5.5	6.52	---	0.21	18/1	---	12.6	21.1	7.8	0.2	0.7	---	---	---	---	2.7/1
	S D			---			---						---	---	---	---	
	Rng			---			---						---	---	---	---	
	N	1	1	---	1	1	---	1	1	1	1	1	---	---	---	---	1
2	Ave	5.5	6.61	---	0.22	17/1	---	8.2	18.9	6.0	0.3	0.4	---	---	---	---	3.2/1
	S D			---			---						---	---	---	---	
	Rng			---			---						---	---	---	---	
	N	1	1	---	1	1	---	1	1	1	1	1	---	---	---	---	1
3	Ave	5.3	1.82	---	0.08	13/1	---	4.8	17.0	7.8	0.4	0.5	---	---	---	---	2.2/1
	S D			---			---						---	---	---	---	
	Rng			---			---						---	---	---	---	
	N	1	1	---	1	1	---	1	1	1	1	1	---	---	---	---	1
4	Ave	5.4	0.94	---	0.04	14/1	---	2.6	25.5	12.5	0.7	0.5	---	---	---	---	2.0/1
	S D			---			---						---	---	---	---	
	Rng			---			---						---	---	---	---	
	N	1	1	---	1	1	---	1	1	1	1	1	---	---	---	---	1
5	Ave	6.6	0.40	---	0.02	12/1	---	2.4	29.5	14.5	0.9	0.4	---	---	---	---	2.0/1
	S D			---			---						---	---	---	---	
	Rng			---			---						---	---	---	---	
	N	1	1	---	1	1	---	1	1	1	1	1	---	---	---	---	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
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	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Crooked

TAXONOMIC NAME: Xerollic Durorthid

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
Ap	Ave	7.5	61.2	33.2	5.6	37.7	22.1	12.5	---
	S D	2.1	10.9	11.9	1.1	4.9	2.8	5.7	---
	Rng	6-9	53-69	25-42	5-6	34-41	20-24	8-17	---
	N	2	2	2	2	2	2	2	---
A3	Ave	11.0	63.2	32.0	4.9	38.1	23.5	14.2	---
	S D	5.7	11.4	14.0	2.6	8.8	4.5	5.4	---
	Rng	7-15	55-71	22-42	3-6.7	32-44	20-27	10-18	---
	N	2	2	2	2	2	2	2	---
B21	Ave	8.5	39.7	47.8	12.5	52.1	37.5	22.0	---
	S D	2.1	25.2	18.8	6.4	9.5	10.2	1.6	---
	Rng	7-10	22-58	35-61	8-17	45-59	30-45	20-23	---
	N	2	2	2	2	2	2	2	---
B22	Ave	13.5	52.9	33.0	14.1	49.4	34.5	17.3	---
	S D	.71	26.4	13.2	13.2	19.4	20.1	5.4	---
	Rng	13-14	34-72	23-42	5-24	36-63	20-49	13-21	---
	N	2	2	2	2	2	2	2	---
C1	Ave	13.5	55.6	33.7	10.8	45.4	32.7	15.6	---
	S D	2.12	11.9	2.1	9.9	8.4	11.0	2.2	---
	Rng	12-15	47-64	32-35	4-18	39-51	25-41	14-17	---
	N	2	2	2	2	2	2	2	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Crooked

TAXONOMIC NAME: Xerollic Durorthid

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	--%--	----------		%	(ppm)	----------	----------	--Meq/100g--	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
Ap	Ave	---	---	.685	.07	9.8	---	---	14.2	2.1	9.25	4.9	---	20.0	43.5	---	6.7
	S D	---	---	.163	.02	.57	---	---	4.8	.28	.35	.42	---	2.4	5.2	---	1.4
	Rng	---	---	.5-.8	.05-.08	9-10	---	---	11-18	1.9-2.3	9-9.5	4.6-5.2	---	18-22	40-47	---	5.7-7.7
	N	---	---	2	2	2	---	---	2	2	2	2	---	2	2	---	2
A3	Ave	---	---	.30	.038	8.0	---	---	9.5	2.35	13.7	3.2	---	20.7	44.5	---	4.1
	S D	---	---	.04	.0007	1.3	---	---	9.5	1.62	3.5	2.1	---	1.8	2.4	---	2.4
	Rng	---	---	.27-.33	.03-.04	7-9	---	---	2-16	1.2-3.5	11-16	1.7-4.6	---	19-22	42-46	---	2.3-5.8
	N	---	---	2	2	2	---	---	2	2	2	2	---	2	2	---	2
B21	Ave	---	---	.26	.026	9.8	---	---	11.8	8.2	24.9	4.9	---	42.4	54.1	---	1.4
	S D	---	---	.05	.004	.28	---	---	8.6	4.7	9.9	2.9	---	2.8	3.9	---	.28
	Rng	---	---	.22-.29	.02-.03	9.6-10	---	---	5-18	5-12	18-32	2.8-6.9	---	40-44	51-57	---	1.2-1.6
	N	---	---	2	2	2	---	---	2	2	2	2	---	2	2	---	2
B22	Ave	---	---	.165	.017	8.7	---	---	14.5	9.5	23.6	4.7	---	43.7	56.4	---	1.6
	S D	---	---	.035	.0014	2.7	---	---	4.9	2.8	8.1	3.2	---	4.6	7.2	---	.07
	Rng	---	---	.14-.19	.01-.02	6-11	---	---	11-18	7-12	18-29	2.4-6.9	---	40-47	51-62	---	1.5-1.6
	N	---	---	2	2	2	---	---	2	2	2	2	---	2	2	---	2
C1	Ave	---	---	.125	---	---	---	---	20.1	9.6	17.5	3.6	---	39.1	46.0	---	2.1
	S D	---	---	.007	---	---	---	---	5.7	1.9	9.1	2.4	---	5.8	3.7	---	.14
	Rng	---	---	.12-.13	---	---	---	---	16-24	8-11	11-24	1.9-5.3	---	35-43	43-49	---	2-2.2
	N	---	---	2	---	---	---	---	2	2	2	2	---	2	2	---	2
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Crutch

TAXONOMIC NAME: Duric Haplorthod

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	%	----------	----------	% H_2O	----------	(g/cc)
A2	Ave	1.75	75.4	21.3	3.4	34.8	16.7	9.6	---
	S D	.35	5.6	7.1	1.5				---
	Rng	1.5-2	71-80	16-26	2.3-4.4				---
	N	2	2	2	2	1	1	1	---
B21r	Ave	6.1	80.8	15.6	3.52	27.9	17.9	7.1	---
	S D	3.9	4.8	6.4	1.9				---
	Rng	1.5-11	75-87	8-24	.7-4.8				---
	N	4	4	4	4	1	1	1	---
B31r	Ave	6.0	83.6	15.1	1.3	17.1	9.5	6.1	---
	S D	5.7	6.5	8.1	1.6				---
	Rng	2-10	79-88	9-21	.2-2.5				---
	N	2	2	2	2	1	1	1	---
B32ir	Ave	13	80.8	17.5	1.6	16.7	8.8	5.3	---
	S D								---
	Rng								---
	N	1	1	1	1	1	1	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Crutch TAXONOMIC NAME: Duric Haplorthod

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	%				%	(ppm)	Meq/100g						(NH_4OAc)	(Σ Cat)	
A2	Ave	5.0	4.8	2.8	.14	26.5	1.9	14.8	3.1	.8	.45	.30	---	14.5	31.2	---	3.3
	S D	.28	1.3	.71	.11	16.3	2.1	4.9	2.9	.42	.07	.14	---	9.5	2.1	---	1.8
	Rng	4.8-5.2	3.9-5.7	2.3-3.3	.06-.22	15-38	.4-3.4	11-18	1-5	.5-1.1	.4-.5	.2-.4	---	8-21	29-33	---	2-4.6
	N	2	2	2	2	2	2	2	2	2	2	2	---	2	2	---	2
B2ir	Ave	5.55	3.1	1.8	.041	53.3	1.63	12.3	.53	.28	.35	.18	---	5.9	22.8	---	1.9
	S D	.29	.91	.53	.03	21.4	1.4	8.7	.46	.22	.17	.05	---	3.8	3.5	---	.25
	Rng	5.2-5.9	1.9-4.0	1.1-2.3	.02-.09	27-74	.8-3.7	5-24	.2-1.2	.1-.6	.2-.6	.1-.2	---	3-11	19-28	---	1.5-2.0
	N	4	4	4	4	4	4	4	4	4	4	4	---	4	4	---	4
B31r	Ave	5.9	1.7	1.0	.033	28.5	1.95	3.9	.45	.2	.2	.15	---	5.9	24.7	---	2.5
	S D	.35	1.4	.85	.026	3.5	1.5	1.3	.21	.14	.14	.07	---	5.3	20.9	---	.71
	Rng	5.6-6.1	.7-2.7	.4-1.6	.01-.06	26-31	.9-3.0	3-4.8	.3-.6	.1-.3	.1-.3	.1-.2	---	2-10	9-40	---	2-3
	N	2	2	2	2	2	2	2	2	2	2	2	---	2	2	---	2
B32ir	Ave	5.5	2.7	1.6	.046	33.7	1.1	7.0	.3	.3	.1	9.7	---	7.7	9.7	---	1.0
	S D												---			---	
	Rng												---			---	
	N	1	1	1	1	1	1	1	1	1	1	1	---	1	1	---	1
	Ave																
	S D																
	Rng																
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	N																

SOIL SERIES: Curant

TAXONOMIC NAME: Calcic Pachic Haploxeroll

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)		%			% H_2O		(g/cc)
A11	Ave	0-4	18.09	57.57	24.34	---	---	14.57	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
A12	Ave	4-16	17.47	54.23	28.30	---	---	14.75	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
B2	Ave	16-25	16.59	52.52	30.89	---	---	15.94	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
B3	Ave	25-33	21.31	64.73	13.96	---	---	12.44	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
C1	Ave	33-39	22.99	66.88	10.13	---	---	12.46	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
C2	Ave	39-55	24.96	66.60	8.44	---	---	12.31	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Curant

TAXONOMIC NAME: Calcic Pachic Haploxeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---	----------		%	(ppm)	----------	----------	---Meq/100g---	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
A11	Ave	6.8	---	4.4	0.20	22.0	---	---	13.9	7.6	0.11	2.09	5.4	28.1	84.3	82.8	1.83
	S D	/	---	/	/	/	---	---	/	/	/	/	/	/	/	/	/
	Rng	/	---	/	/	/	---	---	/	/	/	/	/	/	/	/	/
	N	1	---	1	1	1	---	---	1	1	1	1	1	1	1	1	1
A12	Ave	6.9	---	3.2	0.12	26.7	---	---	15.4	9.2	0.14	1.92	4.4	37.9	70.3	85.8	1.67
	S D	/	---	/	/	/	---	---	/	/	/	/	/	/	/	/	/
	Rng	/	---	/	/	/	---	---	/	/	/	/	/	/	/	/	/
	N	1	---	1	1	1	---	---	1	1	1	1	1	1	1	1	1
B2	Ave	7.2	---	1.0	0.07	14.3	---	---	17.3	11.5	0.28	1.80	5.9	36.5	84.6	84.0	1.50
	S D	/	---	/	/	/	---	---	/	/	/	/	/	/	/	/	/
	Rng	/	---	/	/	/	---	---	/	/	/	/	/	/	/	/	/
	N	1	---	1	1	1	---	---	1	1	1	1	1	1	1	1	1
B3	Ave	8.1	---	0.7	0.04	17.5	---	---	15.4	11.3	0.50	1.65	2.0	24.6	100.0	93.5	1.46
	S D	/	---	/	/	/	---	---	/	/	/	/	/	/	/	/	/
	Rng	/	---	/	/	/	---	---	/	/	/	/	/	/	/	/	/
	N	1	---	1	1	1	---	---	1	1	1	1	1	1	1	1	1
C1	Ave	8.5	---	0.5	0.04	12.5	---	---	16.1	10.9	0.65	1.47	1.1	25.2	100.0	96.4	1.48
	S D	/	---	/	/	/	---	---	/	/	/	/	/	/	/	/	/
	Rng	/	---	/	/	/	---	---	/	/	/	/	/	/	/	/	/
	N	1	---	1	1	1	---	---	1	1	1	1	1	1	1	1	1
C2	Ave	8.7	---	0.5	0.04	12.5	---	---	35.2	10.6	1.26	1.21	0.7	23.6	100.0	98.6	3.32
	S D	/	---	/	/	/	---	---	/	/	/	/	/	/	/	/	/
	Rng	/	---	/	/	/	---	---	/	/	/	/	/	/	/	/	/
	N	1	---	1	1	1	---	---	1	1	1	1	1	1	1	1	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Day

TAXONOMIC NAME: Typic Chromoxerert

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	---%---	----------	----------	---% H_2O---	----------	(g/cc)
A1	Ave	0-3	7.78	22.99	69.23	---	---	28.82	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
AC1	Ave	3-17	8.19	23.06	68.75	---	---	29.71	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
AC2	Ave	17-25	---	---	---	---	---	---	---
	S D		---	---	---	---	---	---	---
	Rng		---	---	---	---	---	---	---
	N	1	---	---	---	---	---	---	---
AC3	Ave	25-32	12.04	25.47	62.49	---	---	26.39	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
AC4	Ave	32-40+	---	---	---	---	---	---	---
	S D		---	---	---	---	---	---	---
	Rng		---	---	---	---	---	---	---
	N	1	---	---	---	---	---	---	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Day

TAXONOMIC NAME: Typic Chromoxerert

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	---	%	---		%	(ppm)	---	---	Meq/100g	---	---	---	(NH_4OAc)	(Σ Cat)	
A1	Ave	7.5	---	0.58	0.04	14.5	---	---	42.6	3.9	3.62	1.34	---	46.9	100	---	10.92
	S D	/	---	/	/	/	---	---	/	/	/	/	---	/	/	---	/
	Rng	/	---	/	/	/	---	---	/	/	/	/	---	/	/	---	/
	N	1	---	1	1	1	---	---	1	1	1	1	---	1	1	---	1
AC1	Ave	7.0	---	0.53	0.04	13.3	---	---	45.4	3.4	5.70	1.28	---	42.9	100	---	13.35
	S D	/	---	/	/	/	---	---	/	/	/	/	---	/	/	---	/
	Rng	/	---	/	/	/	---	---	/	/	/	/	---	/	/	---	/
	N	1	---	1	1	1	---	---	1	1	1	1	---	1	1	---	1
AC2	Ave	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	S D	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Rng	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
AC3	Ave	8.2	---	0.23	0.02	11.5	---	---	58.5	2.7	6.40	1.11	---	47.6	100	---	21.67
	S D	/	---	/	/	/	---	---	/	/	/	/	---	/	/	---	/
	Rng	/	---	/	/	/	---	---	/	/	/	/	---	/	/	---	/
	N	1	---	1	1	1	---	---	1	1	1	1	---	1	1	---	1
AC4	Ave	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	S D	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Rng	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
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	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Dayton TAXONOMIC NAME: Typic Albaqualf

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	%-	----------	----------	% H_2O	----------	(g/cc)
Ap	Ave	18.8	9.0	72.8	18.2	28.1	26.0	9.8	1.4
	S D	1.8	7.8	8.1	4.0		1.4	2.1	.05
	Rng	17-20	4-23	62-82	14-24		24-27	8-13	1.3-1.5
	N	9	5	5	5	1	3	6	4
A12	Ave	10.75	10.5	71.3	18.2	---	24.7	10.15	1.5
	S D	2.9	12.5	9.7	3.0	---		1.9	.04
	Rng	7-13	3-25	60-78	15-21	---		9-12	1.4-1.6
	N	4	3	3	3	---	1	2	2
A2	Ave	16.7	8.1	71.7	20.2	28.0	21.7	9.8	1.5
	S D	6.5	7.7	6.4	4.9	1.7	10.9	2.7	.05
	Rng	8-26	3-28	60-81	12-26	27-29	2-28	6-16	1.4-1.6
	N	18	9	9	9	2	5	10	7
B21t	Ave	31.6	3.2	51.4	45.4	35.95	36.4	22.6	1.7
	S D	20.1	1.5	4.1	5.5		1.2	2.8	.3
	Rng	16-30	1.1-4.6	47-55	40-52		35-37	20-25	1.5-1.9
	N	7	4	4	4	1	2	3	2
B22t	Ave	23.1	2.7	55.4	42.0	---	37.4	24.35	1.9
	S D	4.7	.2	1.4	1.5	---		.6	
	Rng	17-31	2.4-2.8	54-57	40-43	---		23-25	
	N	8	4	4	4	---	1	2	1
B3t	Ave	26.5	3.2	68.8	28.0	---	35.95	19.7	1.6
	S D	8.3	.8	4.8	4.6	---	3.0	2.6	.06
	Rng	21-32	2.5-4.3	65-76	22-32	---	34-38	17-22	1.5-1.7
	N	8	4	4	4	---	2	3	2
IIB2t	Ave	27.0	14.9	43.3	41.8	---	29.2	19.2	1.5
	S D	12.2	8.3	2.8	11.1	---		5.6	.2
	Rng	12-41	8-24	41-47	29-50	---		14-26	1.4-1.7
	N	5	3	3	3	---	1	5	3
IIB3t	Ave	46.25	19.25	46.8	34.0	---	28.6	17.5	1.5
	S D	12.7	9.1	9.8	18.9	---		5.4	.1
	Rng	33-63	13-26	40-54	21-47	---		13-23	1.4-1.6
	N	4	2	2	2	---	1	3	2
C	Ave	35.25	7.3	66.6	25.7	---	28.0	16.7	1.5
	S D	10.2	3.5	15.6	16.0	---	.8	8.7	.007
	Rng	25-55	2-11	32-76	13-59	---	27-29	10-31	1.4-1.6
	N	8	7	7	7	---	2	5	2

SOIL SERIES: Dayton

TAXONOMIC NAME: Typic Albaqualf

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	---%				%	(ppm)			Meq/100g				(NH_4OAc)	(Σ Cat)	
Ap	Ave	5.2	3.4	2.1	.16	14.3	.85	22.3	6.5	3.4	.2	.3	12.9	17.8	52.3	34.7	2.5
	S D	.5		.7	.06	4.6	.2	13.5	3.6	3.6	.2	.15	2.8	4.6	27.3	2.1	.9
	Rng	4.2-5.7		1.5-3.3	.10-.28	10-21	.7-1.0	10-37	3-13	1.3-13	.05-.8	.1-.6	10-17	13-27	19-100	32-37	1.0-4.2
	N	8	1	6	6	6	2	3	10	10	9	10	4	10	10	4	10
A12	Ave	5.0	4.4	2.1	.18	11.3	1.3	---	4.4	1.75	.1	.3	12.6	15.1	43.4	33.3	2.7
	S D	.2	3.1	.9	.06	1.5	.7	---	.6	.6	.01	.1	1.7	2.1	4.9	2.7	1.1
	Rng	4.8-5.3	2.2-6.6	1.1-3.4	.11-.25	8-13	.7-2.0	---	3.6-5.0	1.2-2.4	.1-.13	.1-.4	11-14	13-17	37-48	32-35	1.8-4.1
	N	4	2	4	4	4	3	---	4	4	4	4	2	4	4	2	4
A2	Ave	5.6	1.45	.8	.07	9.75	1.45	4.7	5.7	3.4	.2	.2	7.6	14.1	58.3	48.9	1.9
	S D	.3	1.1	.5	.03	1.7	.3	1.9	3.5	3.0	.2	.2	1.6	4.2	19.3	9.2	.6
	Rng	5.2-6.3	.7-2.2	.4-1.7	.04-.07	8-13	1.2-1.9	2.5-7.1	1.5-15	.8-14	.06-.9	.1-.9	5.8-11	7-21	36-100	34-59	1.1-3.3
	N	15	2	11	10	10	4	4	19	19	17	19	7	19	19	7	19
B21t	Ave	5.7	.7	.3	.04	6.5	1.6	4.5	14.5	12.5	.7	.4	8.95	38.8	75.5	78.0	1.2
	S D	.3		.06					2.2	2.0	.3	.05	.4	5.3	8.7	2.2	.2
	Rng	5.2-5.9		.26-.38					12-18	10-16	.25-1.0	.37-.49	8.7-9.2	27-44	60-80	76-80	.9-1.5
	N	5	1	3	1	1	1	1	7	7	6	7	2	5	5	2	5
B22t	Ave	6.2	.4	.2	.03	6.0	2.0	3.5	15.85	13.4	.8	.4	6.05	34.4	87.7	88.2	1.2
	S D	.5		.02			1.0		4.0	3.2	.4	.06	1.06	6.6	11.6		.2
	Rng	5.4-6.8		.18-.21			1.3-2.7		8-21	7-18	.3-1.4	.3-.5	5.3-6.8	29-44	61-97		.9-1.5
	N	6	1	3	1	1	2	1	8	8	7	8	2	8	8	1	8
B3t	Ave	6.8	---	.1	---	---	1.45	2.0	14.3	10.4	.6	.4	3.6	30.3	78.0	90.6	2.0
	S D	.3	---	.04	---	---	.07		5.0	5.5	.4	.08	1.4	5.7	30.2	2.8	1.3
	Rng	6.4-7.2	---	.07-.14	---	---	1.4-1.5		7-21	1-15	.05-.95	.3-.5	2.5-5.2	25-41	31-100	87-93	1.0-4.2
	N	5	---	3	---	---	2	1	8	8	7	7	3	7	7	3	8
IIB2t	Ave	5.9	.75	.3	.1	4.0	1.6	2.0	15.3	12.1	.9	.4	6.6	34.5	83.5	75.5	1.3
	S D	.6	.4	.3				.5	4.6	3.5	.8	.07	.7	9.2	9.2	1.0	.2
	Rng	5.2-6.7	.5-1.0	.1-.9				1.4-2.8	10-19	9-18	.3-2.5	.3-.5	6.1-7.4	24-47	74-97	74-76	1.0-1.6
	N	7	2	5	1	1	1	5	7	7	7	7	3	7	7	3	7
IIB3t	Ave	5.8	---	.15	---	4.0	1.5	6.0	13.0	11.1	.9	.3	5.25	31.3	81.6	83.0	1.2
	S D	.8	---	.13	---				3.6	4.5	.9	.06	1.6	13.8	9.6		.2
	Rng	5.0-6.5	---	.05-.3	---				11-17	8-16	.4-2.0	.3-.4	4.1-6.4	22-47	76-93		1.0-1.4
	N	3	---	3	---	1	1	1	3	3	3	3	2	3	3	1	3
C	Ave	6.9	.2	.09	.11	3.0	1.7	16.5	14.3	10.7	.8	.4	2.6	28.7	90.1	90.5	1.5
	S D	.5	.2	.10	.13	2.1	.8	24.2	4.1	4.3	.5	.1	.6	9.6	14.3	.7	.5
	Rng	6.3-7.7	.1-.3	.03-.30	.02-.20	1.5-4.5	1.2-2.7	2-45	7-22	3-21	.1-2.1	.2-.7	2.1-3.4	20-55	51-100	89-91	.9-2.7
	N	7	2	6	2	2	3	3	11	11	10	11	4	11	11	4	11

SOIL SERIES: Debenger

TAXONOMIC NAME: Typic Xerochrept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	%----------		----------	% H_2O----------		(g/cc)
1	Ave S D Rng N	1-7 / 1	---------- NO DATA AVAILABLE ----------						
2	Ave S D Rng N	20-25 / 1	---------- NO DATA AVAILABLE ----------						
	Ave S D Rng N								
	Ave S D Rng N								
	Ave S D Rng N								
	Ave S D Rng N								
	Ave S D Rng N								
	Ave S D Rng N								

SOIL SERIES: Debenger TAXONOMIC NAME: Typic Xerochrept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---	----------		%	(ppm)	----------	----------	---Meq/100g---	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
1	Ave	6.6	---	2.35	---	---	---	---	7.7	2.7	0.07	0.40	4.9	12.5	87.0	68.9	2.9
	S D		---		---	---	---	---									
	Rng		---		---	---	---	---									
	N	1	---	1	---	---	---	---	1	1	1	1	1	1	1	1	1
2	Ave	6.5	---	---	---	---	---	---	11.3	4.7	0.14	0.31	4.5	12.8	100	78.95	2.4
	S D		---	---	---	---	---	---									
	Rng		---	---	---	---	---	---									
	N	1	---	---	---	---	---	---	1	1	1	1	1	1	1	1	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
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	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Delena

TAXONOMIC NAME: Humic Fragiaquept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	-%-	----------	----------	-% H_2O-	----------	(g/cc)
A11	Ave S D Rng N	0-5 / 1	----------		NO DATA AVAILABLE			----------	
A12	Ave S D Rng N	5-9 / 1	----------		NO DATA AVAILABLE			----------	
B2	Ave S D Rng N	9-15 / 1	----------		NO DATA AVAILABLE			----------	
	Ave S D Rng N								
	Ave S D Rng N								
	Ave S D Rng N								
	Ave S D Rng N								
	Ave S D Rng N								
	Ave S D Rng N								

SOIL SERIES: Delena TAXONOMIC NAME: Humic Fragiaquept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	---------	%	---------		%	(ppm)	---------	---------	---------	Meq/100g	---------	---------	(NH_4OAc)	(Σ Cat)	
A11	Ave	6.0	---	---	---	---	---	---	13.9	3.7	0.3	0.4	20.8	27.5	66.6	46.8	3.8
	S D		---	---	---	---	---	---									
	Rng		---	---	---	---	---	---									
	N	1	---	---	---	---	---	---	1	1	1	1	1	1	1	1	1
A12	Ave	5.9	---	---	---	---	---	---	9.6	3.2	0.3	0.4	16.9	22.4	60.3	44.4	3.0
	S D		---	---	---	---	---	---									
	Rng		---	---	---	---	---	---									
	N	1	---	---	---	---	---	---	1	1	1	1	1	1	1	1	1
B2	Ave	6.0	---	---	---	---	---	---	7.1	2.3	0.3	0.3	12.3	14.3	70	44.8	3.1
	S D		---	---	---	---	---	---									
	Rng		---	---	---	---	---	---									
	N	1	---	---	---	---	---	---	1	1	1	1	1	1	1	1	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
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	Rng																
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	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Dement

TAXONOMIC NAME: Umbric Dystrochrept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
A1	Ave	9.3	29.8	43.1	27.1	---	---	27.6	---
	S D	1.2	4.0	13.3	.78	---	---	12.5	---
	Rng	8-10	14-39	35-59	26-28	---	---	20-42	---
	N	3	3	3	3	---	---	3	---
A3-B1	Ave	20.5	36.2	47.0	26.8	---	---	35.2	---
	S D	.71	14.8	26.5	11.7	---	---	16.6	---
	Rng	20-21	15-37	28-66	18-35	---	---	23-47	---
	N	2	2	2	2	---	---	2	---
B21	Ave	26.5	25.7	45.8	28.6	---	---	28.4	---
	S D	4.9	17.4	21.3	3.9	---	---	6.8	---
	Rng	23-30	18-38	30-61	26-31	---	---	23-33	---
	N	2	2	2	2	---	---	2	---
B22	Ave	27	26.7	39.7	33.6	---	---	26.7	---
	S D	1.4	27.6	15.4	12.2	---	---	5.5	---
	Rng	26-28	7-46	29-51	25-42	---	---	23-31	---
	N	2	2	2	2	---	---	2	---
B23t	Ave	25	8.2	52.2	39.6	---	---	29.2	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
B24t-25t	Ave	24	24.5	42.0	33.6	---	---	30.6	---
	S D	5.7	---	.21	.14	---	---	1.3	---
	Rng	20-28	24.5	41-42	33-34	---	---	29-32	---
	N	2	2	2	2	---	---	2	---
C1	Ave	35	49.8	32.0	18.2	---	---	22.4	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
C2	Ave	21	58.2	26.2	13.6	---	---	21.8	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Dement

TAXONOMIC NAME: Umbric Dystrochrept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)		%			%	(ppm)			Meq/100g				(NH_4OAc)	(Σ Cat)	
A1	Ave	5.3	---	---	---	---	---	---	6.6	3.9	.47	1.3	---	32.4	36.0	---	1.9
	S D	.173	---	---	---	---	---	---	3.2	2.7	.06	.45	---	7.9	10.5	---	.50
	Rng	5.2-5.5	---	---	---	---	---	---	3-10	1.5-7.0	.4-.5	.8-1.7	---	25-41	25-46	---	1.4-2.4
	N	3	---	---	---	---	---	---	3	3	3	3	---	3	3	---	3
A3-B1	Ave	4.55	---	---	---	---	---	---	3.2	1.5	.45	.70	---	30.2	20.0	---	2.3
	S D	.78	---	---	---	---	---	---	.21	.35	.07	.28	---	9.0	5.6	---	.71
	Rng	4-5.1	---	---	---	---	---	---	3-3.3	1.2-1.7	.4-.5	.5-.9	---	24-37	16-24	---	1.8-2.8
	N	2	---	---	---	---	---	---	2	2	2	2	---	2	2	---	2
B21	Ave	4.4	---	---	---	---	---	---	2.4	1.25	.4	.4	---	23.6	18.5	---	1.95
	S D	.71	---	---	---	---	---	---	.07	.35	---	.14	---	.21	.71	---	.50
	Rng	3.9-4.9	---	---	---	---	---	---	2.3-2.4	1-1.5	.4	.3-.5	---	23-24	18-19	---	1.6-2.3
	N	2	---	---	---	---	---	---	2	2	2	2	---	2	2	---	2
B22	Ave	4.75	---	---	---	---	---	---	2.0	1.45	.4	.3	---	23.6	17	---	1.3
	S D	.07	---	---	---	---	---	---	.50	.07	---	.14	---	.57	1.4	---	.28
	Rng	4.7-4.8	---	---	---	---	---	---	1.6-2.3	1.4-1.5	.4	.2-.4	---	23-24	16-18	---	1.1-1.5
	N	2	---	---	---	---	---	---	2	2	2	2	---	2	2	---	2
B23t	Ave	4.8	---	---	---	---	---	---	.9	1.2	.5	.3	---	21.9	13	---	.75
	S D		---	---	---	---	---	---					---			---	
	Rng		---	---	---	---	---	---					---			---	
	N	1	---	---	---	---	---	---	1	1	1	1	---	1	1	---	1
B24t-25t	Ave	5.6	---	---	---	---	---	---	.9	1.8	.45	.25	---	23.6	13	---	.50
	S D	1.3	---	---	---	---	---	---		---	.07	.07	---	2.4	---	---	
	Rng	4.7-6.5	---	---	---	---	---	---		1.8	.4-.5	.2-.3	---	22-25	13	---	
	N	2	---	---	---	---	---	---	1	2	2	2	---	2	2	---	1
C1	Ave	4.5	---	---	---	---	---	---	2.5	1.8	.5	.3	---	24.6	21	---	1.4
	S D		---	---	---	---	---	---					---			---	
	Rng		---	---	---	---	---	---					---			---	
	N	1	---	---	---	---	---	---	1	1	1	1	---	1	1	---	1
C2	Ave	4.4	---	---	---	---	---	---	1.6	1.5	.4	.2	---	24.6	15	---	1.1
	S D		---	---	---	---	---	---					---			---	
	Rng		---	---	---	---	---	---					---			---	
	N	1	---	---	---	---	---	---	1	1	1	1	---	1	1	---	1
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Deschutes

TAXONOMIC NAME: Xerollic Camborthid

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
A1	Ave	4	73.4	20.9	5.7	---	14.8	6.0	1.35
	S D	---	5.3	3.3	2.1	---		.91	
	Rng	4	70-77	18-23	4-7	---		5.3-6.6	
	N	2	2	2	2	---	1	2	1
AC1	Ave	5.5	71.5	22.5	6.1	---	---	---	---
	S D	.71	2.9	1.1	1.9	---	---	---	---
	Rng	5-6	69-74	21-23	4-8	---	---	---	---
	N	2	2	2	2	---	---	---	---
AC2	Ave	8.5	73.0	21.7	5.4	---	---	---	1.34
	S D	.70	3.9	2.1	1.8	---	---	---	
	Rng	8-9	70-76	20-23	4-7	---	---	---	
	N	2	2	2	2	---	---	---	1
IIC	Ave	7.5	62.5	28.3	9.3	---	---	---	1.68
	S D	.71	3.7	2.1	1.7	---	---	---	
	Rng	7-8	60-65	26-30	8-11	---	---	---	
	N	2	2	2	2	---	---	---	1
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Deschutes

TAXONOMIC NAME: Xerollic Camborthid

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	---------	---%---	---------		%	(ppm)	---------	---------	--Meq/100g--	---------	---------	---------	(NH_4OAc)	(Σ Cat)	
A1	Ave	7.0	---	.515	.042	12	---	---	5.7	2.1	.1	1.0	2.4	11.9	74.2	78.5	2.7
	S D	.14	---	.02	.004	---	---	---	1.2	.35	---	.14	.42	2.2	.57	.71	.11
	Rng	6.9-7.1	---	.5-.6	.4-.5	12	---	---	4.8-6.5	1.8-2.3	.1	.9-1.1	2.1-2.7	10-13	73-75	78-79	2.6-2.8
	N	2	---	2	2	2	---	---	2	2	2	2	2	2	2	2	2
AC1	Ave	7.2	---	.43	.041	10.5	---	---	6.5	2.9	.2	.8	1.85	13.0	85.2	84.5	2.3
	S D	.28	---	.04	.003	.71	---	---	2.0	.50	---	.14	.07	2.0	5.4	2.1	.30
	Rng	7.0-7.4	---	.4-.5	.04-.05	10-11	---	---	5.1-7.9	2.5-3.2	.2	.7-.9	1.8-1.9	11-15	81-89	83-86	2.0-2.5
	N	2	---	2	2	2	---	---	2	2	2	2	2	2	2	2	2
AC2	Ave	7.4	---	.40	.047	9	---	---	6.7	3.5	.2	.8	1.15	12.9	86.1	87.5	1.91
	S D	.28	---	.04			---	---	2.5	.78	---	.28	.44	2.2	9.0	3.5	.30
	Rng	7.2-7.6	---	.37-.43			---	---	5-9	3-4	.2	.6-1	1.4-1.6	11-14	79-92	85-90	1.7-2.1
	N	2	---	2	1	1	---	---	2	2	2	2	2	2	2	2	2
IIC	Ave	8.75	---	.31	---	---	---	---	9.3	6.3	1.0	1.3	.6	16.8	106.9	96.5	1.52
	S D	.35	---	.08	---	---	---	---	1.1	1.1	.71	.71	---	1.2	.78	.71	.45
	Rng	8.5-9.0	---	.2-.4	---	---	---	---	8.5-10	5.5-7.1	.5-1.5	.8-1.8	.6	16-18	106-107	96-97	1.2-1.8
	N	2	---	2	---	---	---	---	2	2	2	2	2	2	2	2	2
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
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SOIL SERIES: Digger

TAXONOMIC NAME: Dystric Eutrochrept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	%	----------	----------	% H_2O	----------	(g/cc)
A1	Ave	9.0	37.8	37.0	25.3	37.6	---	32.45	1.1
	S D	7.1	5.6	.63	5.1		---		
	Rng	4-14	34-42	36-38	21-29		---		
	N	2	2	2	2	1	---	1	1
B1	Ave	13.5	38.1	36.1	25.9	---	---	---	---
	S D	.71	5.6	.14	5.5	---	---	---	---
	Rng	13-14	34-42	36-37	22-30	---	---	---	---
	N	2	2	2	2	---	---	---	---
B2-B3	Ave	15.0	42.6	30.0	27.4	---	---	---	---
	S D	4.2	4.1	---	4.2	---	---	---	---
	Rng	12-18	39-46	30.0	24-31	---	---	---	---
	N	2	2	2	2	---	---	---	---
Dr	Ave	10	44.4	36.6	19.0	---	---	---	---
	S D		2.8	3.5	.78	---	---	---	---
	Rng		42-47	34-39	18-20	---	---	---	---
	N	1	2	2	2	---	---	---	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
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	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Digger

TAXONOMIC NAME: Dystric Eutrochrept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---	----------		%	(ppm)	----------	----------	--Meq/100g--	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
A1	Ave	6.43	---	2.85	.57	23.4	---	---	13.9	7.0	.31	1.3	---	26.4	84.6	---	2.0
	S D	.60	---	.92	.61	1.7	---	---	2.2	.71	.15	.19	---	2.51	1.5	---	.57
	Rng	5.8-6.0	---	2-4	.1-1	22-25	---	---	12-16	6.5-7.5	.2-.4	1.1-1.4	---	24-28	83-86	---	1.6-2.4
	N	2	---	2	2	2	---	---	2	2	2	2	---	2	2	---	2
B1	Ave	5.8	---	1.45	.075	25.0	---	---	10.3	7.0	.28	.77	---	24.1	75.5	---	1.6
	S D	.28	---	.92	.035	5.4	---	---	3.2	.78	.11	.1	---	.50	7.0	---	.64
	Rng	5.6-6	---	.8-2.1	.05-.1	21-29	---	---	8-13	6.4-7.5	.2-.4	.7-.9	---	23-25	70-80	---	1-2
	N	2	---	2	2	2	---	---	2	2	2	2	---	2	2	---	2
B2-B3	Ave	5.85	---	.50	.035	19.1	---	---	10.9	8.9	.31	.80	---	25.4	81.5	---	1.35
	S D	.07	---	.14	.007	6.0	---	---	3.8	.28	.15	.28	---	3.18	21.0	---	.64
	Rng	5.8-5.9	---	.4-.6	.03-.04	15-23	---	---	8-14	8-9	.2-.4	.6-1	---	23-28	66-96	---	.9-1.8
	N	2	---	2	2	2	---	---	2	2	2	2	---	2	2	---	2
Dr	Ave	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	S D	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Rng	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Ave																
	S D																
	Rng																
	N																
	Ave																
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	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Dinzer

TAXONOMIC NAME: Typic Cryorthod

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
O2	Ave	3.8	---	---	---	---	---	---	---
	S D		---	---	---	---	---	---	---
	Rng		---	---	---	---	---	---	---
	N	1	---	---	---	---	---	---	---
A2	Ave	.63	---	---	---	---	---	---	---
	S D	---	---	---	---	---	---	---	---
	Rng	.63	---	---	---	---	---	---	---
	N	2	---	---	---	---	---	---	---
B21r	Ave	13.9	38.6	54.5	6.9	---	---	---	---
	S D	6.1	2.0	3.1	2.5	---	---	---	---
	Rng	7-19	36-40	51-57	4.2-9.2	---	---	---	---
	N	3	3	3	3	---	---	---	---
B3	Ave	38.5	37.8	56.2	6.1	---	---	---	---
	S D	24.7	6.6	9.3	2.6	---	---	---	---
	Rng	21-56	33-43	50-63	4-8	---	---	---	---
	N	2	2	2	2	---	---	---	---
C	Ave	35	46.5	45.9	7.6	---	---	---	---
	S D					---	---	---	---
	Rng					---	---	---	---
	N	1	1	1	1	---	---	---	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Dinzer

TAXONOMIC NAME: Typic Cryorthod

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---	----------		%	(ppm)	----------	----------	--Meq/100g--	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
02	Ave	4.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	S D		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Rng		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	N	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
A2	Ave	4.6	---	---	---	---	1.6	---	---	---	---	---	---	---	---	---	---
	S D	.71	---	---	---	---	.42	---	---	---	---	---	---	---	---	---	---
	Rng	4.1-5.1	---	---	---	---	1.3-1.9	---	---	---	---	---	---	---	---	---	---
	N	2	---	---	---	---	2	---	---	---	---	---	---	---	---	---	---
B21r	Ave	5.6	5.6	3.2	.08	40.6	3.0	2.3	.18	.17	.17	.23	---	20.9	3.56	---	1.1
	S D	.26	1.04	.58	.006	6.2	.36	.93	.19	.12	.06	.15	---	.95	1.94	---	.17
	Rng	5.3-5.8	5.0-6.8	2.9-3.9	.07-.98	35-47	2.7-3.4	1.5-3.3	.05-.4	.1-.3	.1-.2	.1-.4	---	20-21	2.3-5.8	---	1.0-1.3
	N	3	3	3	3	3	3	3	3	3	3	3	---	3	3	---	3
B3	Ave	6.0	3.2	1.85	.08	24.8	3.65	2.5	.1	.2	.2	.25	---	24.9	3.0	---	.65
	S D	.21	.85	.50	.03	4.2	.78	---	---	.14	---	.21	---	5.1	1.9	---	.50
	Rng	5.8-6.1	2-4	1.5-2.2	.06-.1	21-28	3-4	2.5	.1	.1-.3	.2	.1-.4	---	21-29	1.6-4.3	---	.3-1.0
	N	2	2	2	2	2	2	2	2	2	2	2	---	2	2	---	2
C	Ave	5.6	1.4	.8	.02	34.2	3.3	3.8	.3	.1	.1	.1	---	18.2	3.5	---	3.0
	S D												---			---	
	Rng												---			---	
	N	1	1	1	1	1	1	1	1	1	1	1	---	1	1	---	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Dixonville

TAXONOMIC NAME: Pachic Ultic Argixeroll

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	%----------		----------	% H_2O----------		(g/cc)
A1	Ave	10.4	13.6	37.1	49.5	---	---	23.5	1.33
	S D	4.2	3.4	4.7	4.6	---	---	7.0	.03
	Rng	4-15	11-18	34-43	48-55	---	---	16-30	1.3-1.4
	N	8	3	3	3	---	---	3	3
A3	Ave	13.3	13.5	35.2	50.3	---	---	19.8	1.37
	S D	4.4	3.0	5.5	1.1	---	---	4.5	.13
	Rng	8-18	11-16	31-39	49-51	---	---	16-23	1.2-1.5
	N	6	2	2	2	---	---	2	2
B1	Ave	9	4.5	41.5	54.0	---	---	31.2	1.68
	S D	---				---	---		
	Rng	9				---	---		
	N	2	1	1	1	---	---	1	1
B2	Ave	11.7	13.8	31.1	55.2	---	---	26.0	1.43
	S D	4.2	9.1	.71	9.9	---	---	9.1	.19
	Rng	7-15	7-20	30-32	48-62	---	---	19-33	1.2-1.6
	N	3	2	2	2	---	---	2	2
B2tg	Ave	17.2	11.4	34.0	54.6	---	---	25.8	1.6
	S D	7.5	.63	.57	.07	---	---	.50	.007
	Rng	8-28	11-12	33-35	54-55	---	---	25-26	1.5-1.6
	N	6	2	2	2	---	---	2	2
B3	Ave	16.8+	18.2	33.7	48.2	---	---	23.4	1.44
	S D	5.7	4.7	5.4	.57	---	---	2.4	.01
	Rng	13-23	15-22	30-38	47-49	---	---	21-25	1.4-1.5
	N	6	2	2	2	---	---	2	2
C	Ave	55.3+	17.5	32.5	48.6	---	---	27.8	1.44
	S D	10.9	10.8	.21	8.9	---	---	5.4	.05
	Rng	41-66+	10-25	32-33	42-55	---	---	24-32	1.4-1.5
	N	4	2	2	2	---	---	2	2
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Dixonville

TAXONOMIC NAME: Pachic Ultic Argixeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	---%---				%	(ppm)	---	---	Meq/100g	---	---	---	(NH_4OAc)	(Σ Cat)	
A1	Ave	5.84	6.2	3.61	.19	18.9	7.0	3.5	20.4	15.0	.20	.87	---	44.4	82.6	---	1.5
	S D	.22	1.4	.85	.03	2.3	1.1	1.3	6.5	5.3	.06	.48	---	8.6	2.7	---	.60
	Rng	5.4-6.1	4.2-8.1	4.7-2.4	.15-.24	15-22	5.4-7.7	2.3-4.8	12-30	9-19	.15-.28	.2-1.6	---	40-56	79-86	---	.7-2.3
	N	7	7	7	7	7	4	3	8	8	5	8	---	8	5	---	8
A3	Ave	5.8	4.05	2.34	.138	17.3	6.8	1.75	19.8	14.2	.215	.465	---	41.5	84.0	---	1.5
	S D	.25	.99	.56	.039	3.0	1.1	.78	7.3	3.0	.104	.293	---	7.8	8.3	---	.51
	Rng	5.5-6.1	3.0-5.4	1.7-3.1	.11-.21	13-22	5.3-7.7	1.2-2.3	13-29	10-19	.1-.4	.2-1	---	31-53	77-96	---	.88-2.2
	N	6	6	6	6	6	4	2	6	6	4	6	---	6	4	---	6
B1	Ave	5.1	2.85	1.65	.09	18.3	---	2.0	17.2	22.3	.21	.60	---	47.5	81.4	---	.87
	S D						---		2.3	9.4		.42	---	5.5		---	.47
	Rng						---		15-19	15-29		.3-.9	---	43-52		---	.5-1.2
	N	1	1	1	1	1	---	1	2	2	1	2	---	2	1	---	2
B2	Ave	5.6	1.39	.80	.06	13.6	---	2.3	16.2	21.4	.26	.38	---	42.3	83.7	---	.88
	S D	.56	.94	.54	.04	.50	---	.14	5.4	10.1		.40	---	9.0		---	.37
	Rng	5.2-6	.7-2.1	.4-1.2	.03-.09	13-14	---	2.2-2.4	13-22	14-33		.1-.8	---	32-49		---	.4-1.3
	N	2	2	2	2	2	---	2	3	3	1	3	---	3	1	---	3
B2tg	Ave	5.85	1.9	1.1	.077	13.7	---	1.45	24.8	20.4	.27	.22	---	46.5	102.4	---	1.3
	S D	.47	1.0	.60	.022	4.1	---	.07	7.0	7.5	.05	.10	---	6.3	8.3	---	.62
	Rng	5.3-6.6	.7-3.3	.4-1.9	.05-.11	7-19	---	1.4-1.5	15-32	13-32	.21-.33	.1-.4	---	39-55	93-113	---	.66-2.1
	N	6	6	6	6	6	---	2	6	6	4	6	---	6	4	---	6
B3	Ave	6.12	1.25	.73	.048	14.5	4.3	2.2	26.6	21	.30	.177	---	46.3	108.2	---	1.2
	S D	.41	.60	.36	.015	4.4	1.2	.14	9.4	7.2	.059	.066	---	9.3	5.6	---	.74
	Rng	5.5-6.8	.4-2.2	.23-1.3	.03-.07	7-19	3.2-5.7	2.1-2.3	14-35	15-34	.26-.39	.1-.3	---	32-53	102-116	---	.3-2.3
	N	6	6	6	6	6	4	2	6	6	4	6	---	6	4	---	6
C	Ave	6.02	.828	.48	.03	15.3	3.35	1.9	29.4	25.4	.37	.148	---	55.7	100.5	---	1.1
	S D	.53	.47	.27	.01	4.0	.94	.57	11.6	9.1	.09	.041	---	6.6	10.1	---	.78
	Rng	6.1-6.7	.3-1.5	.19-.9	.02-.05	9-21	2.2-4.3	1.5-2.3	15-43	15-36	.23-.43	.1-.2	---	45-62	88-113	---	.4-2.1
	N	6	6	6	6	6	4	2	6	6	3	6	---	6	4	---	6
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Dupee

TAXONOMIC NAME: Aquultic Haploxeralf

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)		%			% H_2O		(g/cc)
A1p	Ave	19.0	30.1	53.8	16.1	---	24.9	6.4	1.52
	S D	5.4	9.2	1.9	2.3	---		2.7	
	Rng	15-23	34-37	49-59	14-18	---		4-8	
	N	2	2	2	2	---	2	2	1
B1	Ave	15.1	27.3	48.2	24.5	---	28.5	10.5	1.58
	S D	.35	9.9	6.3	3.6	---		.14	
	Rng	15-16	20-34	44-53	22-27	---		10-11	
	N	2	2	2	2	---	1	2	1
B21	Ave	17.8	28.9	44.7	29.4	---	25.4	13.7	1.58
	S D	3.5	9.0	15.3	6.3	---		1.9	
	Rng	15-20	20-32	34-56	25-34	---		12-15	
	N	2	2	2	2	---	1	2	1
B22	Ave	21.6	27.0	41.5	31.5	---	32.3	15.9	1.58
	S D	9.0	10.7	15.0	4.3	---		2.6	
	Rng	15-28	19-35	31-52	28-35	---		14-18	
	N	2	2	2	2	---	1	2	1
B23	Ave	15.2	34.4	29.1	36.5	---	28.5	17.9	1.58
	S D	---	1.7	8.5	6.8	---		1.4	
	Rng	15.2	33-36	23-35	32-41	---		17-19	
	N	2	2	2	2	---	2	2	2
C1	Ave	35.4	55.2	25.1	19.6	---	31.9	12.5	1.52
	S D	14.8	2.9	4.7	1.6	---		4.9	
	Rng	24-46	53-58	22-29	18-21	---		9-16	
	N	2	2	2	2	---	2	2	2
C2	Ave	30.5	57.3	30.0	16.8	---	38.9	13.2	1.34
	S D	3.7	11.2	7.1	4.0	---		5.9	
	Rng	28-33	49-65	21-31	14-20	---		9-17	
	N	2	2	2	2	---	1	2	2
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Dupee

TAXONOMIC NAME: Aquultic Haploxeralf

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	---%				%	(ppm)			Meq/100g				(NH_4OAc)	(Σ Cat)	
A1p	Ave	5.45	---	1.18	.092	12.5	1.25	---	4.5	1.2	.15	.3	8.1	---	---	43	3.8
	S D	.21	---	.05	.008	.71	.35	---	.71	.14	.07	---	1.4	---	---	1.4	.14
	Rng	5.3-5.6	---	1.1-1.2	.08-.1	12-13	1-1.5	---	4-5	1.1-1.3	.1-.2	.3	7-9	---	---	42-44	3.6-3.9
	N	2	---	2	2	2	2	---	2	2	2	2	2	---	---	2	2
B1	Ave	5.4	---	.46	.051	9.0	1.4	---	5	1.8	.2	.2	8.2	---	---	50	2.8
	S D	.28	---	.07	.003	1.4	.42	---	.78	.42	---	---	2.2	---	---	.14	.22
	Rng	5.2-5.6	---	.4-.5	.04-.05	8-10	1.1-1.7	---	4-6	1-2	.2	.2	6-10	---	---	49-51	2.6-2.9
	N	2	---	2	2	2	2	---	2	2	2	2	2	---	---	2	2
B21	Ave	5.2	---	.33	---	---	1.6	---	7.1	3.4	.2	.25	8.5	---	---	57	2.1
	S D	.42	---	.007	---	---	.14	---	.14	.42	---	.07	2.0	---	---	4.2	.22
	Rng	4.9-5.5	---	.32-.33	---	---	1.5-1.7	---	7-7.2	3.1-3.7	.2	.2-.3	7-10	---	---	54-60	1.9-2.3
	N	2	---	2	---	---	2	---	2	2	2	2	2	---	---	2	2
B22	Ave	5.0	---	.27	---	---	1.7	---	9.5	4.9	.2	.25	9.8	---	---	60.5	2.0
	S D	.42	---	.02	---	---	.21	---	.21	.85	---	.07	2.7	---	---	5.0	.30
	Rng	4.7-5.3	---	.25-.28	---	---	1.5-1.8	---	9.3-9.6	4.3-5.5	.2	.2-.3	8-12	---	---	57-64	1.7-2.2
	N	2	---	2	---	---	2	---	2	2	2	2	2	---	---	2	2
B23	Ave	4.85	---	.195	---	---	1.75	---	11.9	6.3	.3	.3	10.1	---	---	64.0	1.9
	S D	.35	---	.007	---	---	1.1	---	.64	.50	.07	.07	2.5	---	---	5.7	.25
	Rng	4.6-5.1	---	.19-.2	---	---	1-2.5	---	11-12	6-7	.2-.3	.2-.3	8-12	---	---	61-69	1.7-2.1
	N	2	---	2	---	---	2	---	2	2	2	2	2	---	---	2	2
C1	Ave	4.9	---	.093	---	---	1.63	---	9.4	5.1	.4	.3	8.1	---	---	64.8	1.9
	S D	.14	---	.004	---	---	1.6	---	3.9	2.1	---	.07	2.0	---	---	3.9	.04
	Rng	4.8-5	---	.09-.1	---	---	.5-2.8	---	6-12	3-7	.4	.2-.3	6-10	---	---	62-68	1.8-1.9
	N	2	---	2	---	---	2	---	2	2	2	2	2	---	---	2	2
C2	Ave	4.9	---	.06	---	---	1.3	---	9.0	5.2	.45	.2	8.0	---	---	63.5	1.7
	S D	.28	---	.014	---	---	1.4	---	6.1	3.3	.07	---	3.5	---	---	5.0	.11
	Rng	4.7-5.1	---	.05-.07	---	---	.3-2.3	---	4-13	2.9-7.5	.4-.5	.2	6-11	---	---	60-67	1.6-1.8
	N	2	---	2	---	---	2	---	2	2	2	2	2	---	---	2	2
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Dufur

TAXONOMIC NAME: Calcic Haploxeroll

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
Ap	Ave	7.0	33.1	52.8	14.1	36.0	22.3	8.5	---
	S D	1.4	.87	1.4	1.8	1.72	1.11	7.0	---
	Rng	6-8	32-34	51-54	12-16	34-38	21-23	7-9	---
	N	2	3	3	3	3	3	3	---
B1	Ave	4	33.0	50.9	16.1	38.0	22.8	8.9	---
	S D								---
	Rng								---
	N	1	1	1	1	1	1	1	---
B21	Ave	9.5	33.25	52.8	14.0	37.4	22.2	8.2	---
	S D	4.9	.35	.99	.64	.42	.21	.28	---
	Rng	6-13	33-34	52-54	13-15	37-38	22-23	8-8.4	---
	N	2	2	2	2	2	2	2	---
B22	Ave	12.0	33.8	53.1	13.1	35.0	22.1	8.7	---
	S D	2.8	---	---	---	1.5	.35	.91	---
	Rng	10-14	33.8	53.1	13.1	34-36	21-23	8-9.3	---
	N	2	2	2	2	2	2	2	---
B23	Ave	8.5	38.4	53.1	8.5	34.1	22.2	8.4	---
	S D	2.1	5.4	3.2	2.2	1.9	.28	.64	---
	Rng	7-10	34-42	51-55	7-10	33-35	22-23	8-9	---
	N	2	2	2	2	2	2	2	---
Cca	Ave	13.5	36.4	57.6	6.1	37.3	24.1	10.1	---
	S D	.7	.99	3.3	2.3	1.7	1.6	2.3	---
	Rng	13-14	35-37	55-60	4-8	36-39	23-25	8-12	---
	N	2	2	2	2	2	2	2	---
Cca-Dr	Ave	19	56.2	37.8	6.0	35.8	25.0	12.4	---
	S D								---
	Rng								---
	N	1	1	1	1	1	1	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Dufur

TAXONOMIC NAME: Calcic Haploxeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---	----------		%	(ppm)	----------	----------	--Meq/100g--	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
Ap	Ave	6.47	---	1.00	.085	11.8	---	---	10.0	3.0	.17	1.4	3.9	19.0	76.7	80.0	3.4
	S D	.06	---	.14	.001	1.6	---	---	.4	.36	.06	.23	.35	.66	2.5	77-83	.34
	Rng	6.4-6.5	---	.8-1.1	.08-.09	10-13	---	---	9-11	2.7-3.4	.1-.2	1.1-1.5	3.6-4.3	18-20	74-79	3.0	3.1-3.7
	N	3	---	3	3	3	---	---	3	3	3	3	3	3	3	3	3
B1	Ave	6.7	---	.76	.075	10.1	---	---	10.1	3.4	0.3	1.3	3.3	19.4	78	82	3.0
	S D		---				---	---									
	Rng		---				---	---									
	N	1	---	1	1	1	---	---	1	1	1	1	1	1	1	1	1
B21	Ave	7.0	---	.615	.063	9.8	---	---	9.5	4.1	.15	1.2	2.7	18.9	78.5	85	2.4
	S D	---	---	.007	.003	.6	---	---	.5	.35	.07	---	.14	.14	3.5	1.4	.07
	Rng	7.0	---	.61-.62	.06-.07	9-10	---	---	9-10	3.8-4.3	.1-.2	1.2	2.6-2.8	18.8-19	76-81	84-86	2.3-2.4
	N	2	---	2	2	2	---	---	2	2	2	2	2	2	2	2	2
B22	Ave	7.35	---	.36	.061	8.7	---	---	9.4	5.15	.35	2.55	1.35	18.0	97.0	93	1.8
	S D	.07	---	.24			---	---	.57	.21	.07	.21	.21	.92	8.5	1.4	---
	Rng	7.3-7.4	---	.1-.6			---	---	9-10	5-5.3	.3-.4	2.4-2.7	1.2-1.5	17-19	91-100	92-94	1.8
	N	2	---	2	1	1	---	---	2	2	2	2	2	2	2	2	2
B23	Ave	7.55	---	.22	---	---	---	---	8.05	5.0	.35	2.7	1.0	18.2	88.5	94	1.6
	S D	.21	---	.17	---	---	---	---	.07	.35	.07	.57	.56	.28	3.5	2.8	.14
	Rng	7.4-7.7	---	.1-.4	---	---	---	---	8-8.1	4.7-5.2	.3-.4	2.3-3.1	.6-1.4	18-18.4	86-91	92-96	1.5-1.7
	N	2	---	2	---	---	---	---	2	2	2	2	2	2	2	2	2
Cca	Ave	8.45	---	.145	---	---	---	---	17.5	8.0	7.8	4.5	---	22.1	100	100	2.25
	S D	.50	---	.02	---	---	---	---	1.3	1.1	8.6	.92	---	4.9	--	---	.50
	Rng	8.1-8.8	---	.13-.16	---	---	---	---	16-19	7.2-8.8	1-14	3-5	---	18-26	100	100	1.9-2.6
	N	2	---	2	---	---	---	---	2	2	2	2	---	2	2	2	2
Cca-Dr	Ave	8.0	---	.09	---	---	---	---	18.9	7.9	1.5	3.1	.7	25.8	100	98	2.4
	S D		---		---	---	---	---									
	Rng		---		---	---	---	---									
	N	1	---	1	---	---	---	---	1	1	1	1	1	1	1	1	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Dumont

TAXONOMIC NAME: Typic Haploxerult

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
A1	Ave	6.3	38.9	41.2	19.9	---	---	17.0	.81
	S D	3.2	4.6	6.1	1.6	---	---	1.4	
	Rng	4-10	34-43	35-48	18-21	---	---	15-18	
	N	3	3	3	3	---	---	3	1
A12	Ave	5.5	33.3	42.7	24.1	---	---	14.6	---
	S D	.71	2.3	4.4	2.1	---	---	3.8	---
	Rng	5-6	31-35	39-56	22-26	---	---	12-17	---
	N	2	2	2	2	---	---	2	---
A3-B1	Ave	7.0	34.3	38.1	27.6	---	---	16.1	.88
	S D	2.6	5.5	4.3	2.3	---	---	3.8	
	Rng	5-10	29-40	34-43	25-30	---	---	11-19	
	N	3	3	3	3	---	---	3	1
B21t	Ave	9	26	37.5	36.6	---	---	17.1	---
	S D	1.4	2.6	6.5	9.1	---	---	5.9	---
	Rng	8-10	24-28	33-42	30-43	---	---	13-21	---
	N	2	2	2	2	---	---	2	---
B22t	Ave	12.3	23.1	32.1	44.8	---	---	21.4	1.21
	S D	6.0	1.7	4.4	2.7	---	---	4.1	
	Rng	6-18	21-25	27-35	43-48	---	---	17-25	
	N	3	3	3	3	---	---	3	1
B23t	Ave	8.5	19.8	36.1	44.2	---	---	20.7	---
	S D	2.1	.57	2.5	1.9	---	---	3.7	---
	Rng	7-10	19-20	34-38	43-46	---	---	18-23	---
	N	2	2	2	2	---	---	2	---
B24t	Ave	7	15.7	32.4	51.9	---	---	21.8	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
B31t	Ave	11.5	12.2	35.9	47.5	---	---	25.9	1.45
	S D	2.1	15.3	3.3	12.2	---	---	5.9	
	Rng	10-13	10-23	33-38	39-56	---	---	22-30	
	N	2	2	2	2	---	---	2	1
B32t	Ave	15.0	21.4	40.3	38.4	---	---	26.0	1.47
	S D	8.5	4.0	3.4	.64	---	---	1.3	
	Rng	9-21	18-24	38-43	38-39	---	---	25-27	
	N	2	2	2	2	---	---	2	1

SOIL SERIES: Dumont TAXONOMIC NAME: Typic Haploxerult

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)		%			% H_2O		(g/cc)
C1	Ave	24.7	31.6	44.9	23.5	---	---	21.2	1.20
	S D	11.5	4.4	8.9	5.0	---	---	2.3	.23
	Rng	13-36	27-36	38-55	18-27	---	---	18-23	1.0-1.4
	N	3	3	3	3	---	---	3	2
C2	Ave	27	33.0	47.4	19.6	---	---	21.3	---
	S D	9.9	8.0	11.7	3.7	---	---	.28	---
	Rng	20-34	27-39	39-56	17-22	---	---	21-22	---
	N	2	2	2	2	---	---	2	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
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	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Dumont

TAXONOMIC NAME: Typic Haploxerult

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---	----------		%	(ppm)	----------	----------	--Meq/100g--	----------	----------	----------	(Σ Cat)	(NH_4OAc)	
A1	Ave	6.0	---	4.1	.183	22.5	3.1	4.6	13.8	2.4	.1	.90	18.6	34.3	49.5	49.5	6.3
	S D	.40	---	.57	.009	2.1	.28		1.2	.71	---	.1	.14	4.4	.71	3.5	1.8
	Rng	5.6-6.4	---	3.6-4.5	.17-.19	21-24	2.9-3.3		12-15	1.9-2.9	.1	.8-1.0	18.5-19	30-39	49-50	47-52	4-7.6
	N	3	---	2	2	2	2	1	3	2	2	3	2	3	2	2	2
A12	Ave	5.8	---	1.58	.101	16.0	3.6	---	7.9	2.1	.1	.6	14.7	26.6	41.0	39	3.6
	S D	---	---	.11	.03	2.8	.28	---	4.6	.71	---	.071	1.7	7.6	9.9	8.5	.99
	Rng	5.8	---	1.5-1.7	.08-.12	14-18	3.4-3.8	---	4-11	1.6-2.6	.1	.6-.7	13.5-16	21-32	34-48	33-45	2.9-4.3
	N	2	---	2	2	2	2	---	2	2	2	2	2	2	2	2	2
A3-B1	Ave	5.37	---	.85	.080	10.5	3.9	5.7	7.7	2.0	.1	.61	13.3	25.5	40.0	38.5	3.4
	S D	.25	---	.23	.028	.71	.28		3.1	1.1	---	.10	3.0	6.5	4.2	3.5	.5
	Rng	5.1-5.6	---	.7-1.0	.06-.1	10-11	10-11		4-10	1.2-2.8	.1	.5-.7	11-15	18-30	37-43	36-41	3-3.7
	N	3	---	2	2	2	2	2	3	2	2	3	2	3	3	2	2
B21t	Ave	5.25	---	.50	.047	10.5	4.6	---	5.5	2.6	.30	.45	14.7	10.7	39.5	36	2.2
	S D	.21	---	.12	.009	.71	.64	---	.71	.71	.14	.07	7.5	11.5	9.2	8.5	.35
	Rng	5.1-5.4	---	.4-.6	.04-.06	10-11	4-5	---	5-6	2.1-3.1	.2-.4	.4-.5	9.4-20	18-33	33-46	30-42	1.9-2.4
	N	2	---	2	2	2	2	---	2	2	---	2	2	2	2	2	2
B22t	Ave	5.1	---	.74	.032	9	4.75	1.0	5.5	2.8	.1	.40	16.2	26.3	36.5	31	1.75
	S D	.3	---	.76	.003		.64		1.5	.85	---	.18	3.7	5.7	6.4	--	.07
	Rng	4.8-5.4	---	.2-1.3	.03-.04		4.3-5.2		3.8-6.5	2.2-3.4	.1	.3-.6	14-19	20-33	32-41	31	1.7-1.8
	N	3	---	2	2	1	2	1	3	2	2	3	2	3	2	2	2
B23t	Ave	5.2	---	.15	---	---	4.9	---	5.6	3.4	.15	.3	15.6	27.9	37.0	33	1.65
	S D	.14	---	.06	---	---	.78	---	2.4	1.4	.07	---	3.1	7.1	5.7	5.7	.07
	Rng	5.1-5.3	---	.11-.19	---	---	4.3-5.4	---	3.9-7.3	2.4-4.4	.1-.2	.3	13.4-18	23-33	33-41	29-37	1.6-1.7
	N	2	---	2	---	---	2	---	2	2	2	2	2	2	2	2	2
B24t	Ave	5.3	---	.08	---	---	4.6	---	3.9	2.8	0.1	0.3	19	34.1	27	21	1.4
	S D		---		---	---		---									
	Rng		---		---	---		---									
	N	1	---	1	---	---	1	---	1	1	1	1	1	1	1	1	1
B31t	Ave	5.2	---	.15	---	---	5.7	---	6.6	4.8	.15	.35	26.5	41.4	34	31.5	1.4
	S D	.21	---	.04	---	---	---	---	2.5	.28	.07	.07	15	13.9	17	16	.57
	Rng	5-5.3	---	.12-.18	---	---	5.7	---	4.8-8.4	4.6-5	.1-.2	.3-.4	16-37	31-51	22-46	20-43	1-1.8
	N	2	---	2	---	---	2	---	2	2	2	2	2	2	2	2	2
B32t	Ave	4.9	---	.16	---	---	7.2	---	7.15	5.9	.15	.3	26.8	41.5	36	34	1.2
	S D	.14	---	3.0	---	---	2.8	---	6.2	.21	.07	---	15.3	5.0	24.0	20	.99
	Rng	4.8-5.0	---	.14-.18	---	---	5-9	---	3-12	5.7-6	.1-.2	.3	16-37.6	38-45	19-53	20-48	.5-1.9
	N	2	---	2	---	---	2	---	2	2	2	2	2	2	2	2	2

SOIL SERIES: Dumont TAXONOMIC NAME: Typic Haploxerult

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---	----------		%	(ppm)	----------	----------	---Meq/100g---	----------	----------	----------	(Σ Cat)	(NH_4OAc)	
C1	Ave	4.83	---	.01	---	---	5.4	2.2	3.8	5.3	.15	.25	26.2	36.6	32.0	30.5	1.1
	S D	.15	---	---	---	---	.91		3.9	.64	.07	.05	12.7	6.8	17	15	.84
	Rng	4.7-5	---	.01	---	---	4.4-6.2		.6-8	4.8-5.7	.1-.2	.2-.3	17-35.2	32-46	20-44	20-41	.4-1.7
	N	3	---	2	---	---	2	1	3	2	2	3	2	3	2	2	2
C2	Ave	4.8	---	.01	---	---	5.35	---	5.1	6.1	.15	.2	27.4	40.8	30.0	28.5	1.0
	S D	.14	---	---	---	---	.91	---	1.3	2.6	.07	.14	7.4	4.0	2.8	.7	.61
	Rng	4.7-4.9	---	.01	---	---	4.7-6.0	---	4.2-6	4.2-7.9	.1-.2	.1-.3	22-32.6	38-44	28-32	28-29	
	N	2	---	2	---	---	2	---	2	2	2	2	2	2	2	2	2
	Ave																
	S D																
	Rng																
	N																
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SOIL SERIES: Elmore (Stony loam) TAXONOMIC NAME: Pachic Ultic Argixeroll

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	---------- % ----------			---------- % H_2O ----------			(g/cc)
A1	Ave	10.8	39.9	44.6	16.0	43.7	27.8	11.2	---
	S D	2.5	4.2	4.1	2.0	7-6	2.5	1.3	---
	Rng	7-13	35-44	38-48	13-18	36-50	26-31	9-12	---
	N	4	4	4	4	4	4	4	---
A3	Ave	13.4	37.3	34.8	27.9	44.6	26.1	13.1	---
	S D	4.9	4.4	14.2	12.5	6.2	2.0	1.3	---
	Rng	10-21	30-41	14-45	16-46	38-50	24-28	11-14	---
	N	4	4	4	4	4	4	4	---
B1	Ave	17.8	34.2	29.9	35.9	47.4	30.0	16.8	---
	S D	6.7	10.4	15.2	15.7	1.5	8.0	6.3	---
	Rng	12-25	22-43	14-45	17-47	46-49	24-39	12-24	---
	N	3	3	3	3	3	3	3	---
B2	Ave	19.7	35.1	33.5	31.4	44.9	30.8	21.4	---
	S D	5.2	9.1	13.0	14.1	6.0	7.8	9.7	---
	Rng	15-25	23-45	17-49	14-38	39-53	26-42	11-32	---
	N	4	4	4	4	4	4	4	---
B3	Ave	26.0	39.0	32.6	28.4	44.6	30.4	18.0	---
	S D	5.6	11.7	11.8	15.4	5.0	8.1	6.4	---
	Rng	17-31	24-52	15-41	8-39	42-52	22-42	11-27	---
	N	4	4	4	4	4	4	4	---
Cca	Ave	50.7	43.7	29.4	26.9	44.1	31.6	20.4	---
	S D	14.6	9.2	9.9	7.7	6.2	5.4	3.8	---
	Rng	38-64	33-53	15-37	17-34	36-50	26-38	16-25	---
	N	4	4	4	4	4	4	4	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Elmore (Stony loam)

TAXONOMIC NAME: Pachic Ultic Argixeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)		%			%	(ppm)			Meq/100g				(NH_4OAc)	(Σ Cat)	
A1	Ave	6.5	---	1.51	.124	12.0	---	---	11.4	5.7	.40	1.68	4.7	24.2	79	80.5	2.1
	S D	.30	---	.71	.05	1.2	---	---	.9	.99	.14	.19	1.7	3.3	6.2	5.5	.34
	Rng	6.2-6.8	---	.9-2.4	.08-.18	11-13	---	---	10-13	4.2-6.4	.2-.5	1.4-1.8	3.1-6.7	19-27	73-86	74-86	1.6-2.5
	N	4	---	4	4	4	---	---	4	4	4	4	4	4	4	4	4
A3	Ave	6.6	---	1.2	.11	11.13	---	---	13.5	7.2	.38	1.8	4.6	28.0	81.5	84.5	1.9
	S D	.22	---	.35	.02	.93	---	---	2.0	.35	.17	.28	1.1	1.9	4.8	3.9	.27
	Rng	6.3-6.8	---	.9-1.7	.08-.14	10-12	---	---	11-15	6.8-7.6	.2-.6	1.5-2.1	3.2-5.7	25-30	75-86	80-89	1.5-2.2
	N	4	---	4	4	4	---	---	4	4	4	4	4	4	4	4	4
B1	Ave	6.6	---	1.25	.119	10.5	---	---	16.5	6.1	.35	1.7	5.0	36.1	79.0	85	1.60
	S D	.21	---	.21	.009	1.0	---	---	6.1	4.1	.21	.4	1.2	10.0	4.4	4.4	.18
	Rng	6.4-6.8	---	1.0-1.5	.11-.13	9-12	---	---	12-24	8-14	.2-.6	1.3-2.1	3.6-5.7	30-48	76-84	80-88	1.3-1.7
	N	3	---	3	3	3	---	---	3	3	3	3	3	3	3	3	3
B2	Ave	6.95	---	9.45	.096	9.9	---	---	18.2	12.1	.63	1.9	4.0	38.4	85.5	89.3	1.5
	S D	.17	---	.14	.009	.82	---	---	4.9	3.0	.17	.14	1.2	10.1	4.2	1.7	.17
	Rng	6.7-7.1	---	.7-1.1	.08-.11	8-11	---	---	13-25	10-16	.4-.8	1.7-2	2.9-5.4	29-52	81-91	87-91	1.3-1.8
	N	4	---	4	4	4	---	---	4	4	4	4	4	4	4	4	4
B3	Ave	7.1	---	.88	.09	9.6	---	---	20.7	13.0	1.4	5.3	4.5	39.9	91.8	91.3	1.6
	S D	.57	---	.37	.03	.67	---	---	3.8	3.0	.75	7.1	1.3	10.6	16.8	6.6	.17
	Rng	6.5-7.8	---	.6-1.4	.06-.14	9-11	---	---	17-26	10-17	.3-1	1.6-2.0	3.1-5.7	31-55	81-116	84-100	1.4-1.9
	N	4	---	4	4	4	---	---	4	4	4	4	4	4	4	4	4
Cca	Ave	7.3	---	.57	.056	9.8	---	---	24.5	22.1	.85	1.8	3.3	47.0	100	95	1.2
	S D	.43	---	.20	.03	1.4	---	---	7.8	6.1	.44	.30	.81	8.3	23.4	3.5	.50
	Rng	7.0-7.9	---	.36-.77	.03-.09	8-11	---	---	15-33	17-23	.5-1.5	1.4-2.1	2.6-4.2	35-55	86->100	92-100	.5-1.6
	N	4	---	4	3	3	---	---	4	4	4	4	4	3	4	4	4
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Enola

TAXONOMIC NAME: Andic Dystrochrept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	%			% H_2O			(g/cc)
O1	Ave	1.3-0							
	S D		NO DATA AVAILABLE						
	Rng								
	N	1							
A2	Ave	0-1.3							
	S D		NO DATA AVAILABLE						
	Rng								
	N	1							
B21ir	Ave	1.3-10	53.6	39.8	6.6	---	---	---	---
	S D					---	---	---	---
	Rng					---	---	---	---
	N	1	1	1	1	---	---	---	---
B311r	Ave	10-25	52.9	41.6	5.5	40.1	36.1	11.0	0.7
	S D								
	Rng								
	N	1	1	1	1	1	1	1	1
B321r	Ave	25-51	56.7	40.4	2.9	---	---	---	---
	S D					---	---	---	---
	Rng					---	---	---	---
	N	1	1	1	1	---	---	---	---
C	Ave	51-97	55.4	43.8	0.8	44.2	40.7	17.7	0.9
	S D								
	Rng								
	N	1	1	1	1	1	1	1	1
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Enola

TAXONOMIC NAME: Andic Dystrochrept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	---%				%	(ppm)			Meq/100g				(NH_4OAc)	(Σ Cat)	
O1	Ave	4.9															
	S D	/	NO DATA AVAILABLE														
	Rng																
	N	1															
A2	Ave	5.6															
	S D	/	NO DATA AVAILABLE														
	Rng																
	N	1															
B21ir	Ave	5.9	3.9	2.3	.085	26	1.5	6.3	1.7	0.4	0.3	0.3	---	16.0	16.6	---	4.25
	S D	/	/	/	/	/	/	/	/	/	/	/	---	/	/	---	/
	Rng												---			---	
	N	1	1	1	1	1	1	1	1	1	1	1	---	1	1	---	1
B31ir	Ave	5.8	2.5	1.5	.058	25	1.3	1.7	0.8	0.3	0.3	0.2	---	12.7	12.2	---	2.66
	S D	/	/	/	/	/	/	/	/	/	/	/	---	/	/	---	/
	Rng												---			---	
	N	1	1	1	1	1	1	1	1	1	1	1	---	1	1	---	1
B32ir	Ave	5.5	2.1	1.2	.066	19	1.9	2.5	0.7	0.3	0.4	0.2	---	14.2	10.8	---	2.33
	S D	/	/	/	/	/	/	/	/	/	/	/	---	/	/	---	/
	Rng												---			---	
	N	1	1	1	1	1	1	1	1	1	1	1	---	1	1	---	1
C	Ave	5.8	0.9	0.5	.035	2	1.9	1.0	0.7	0.3	0.2	0.1	---	17.9	6.9	---	2.33
	S D	/	/	/	/	/	/	/	/	/	/	/	---	/	/	---	/
	Rng												---			---	
	N	1	1	1	1	1	1	1	1	1	1	1	---	1	1	---	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Era TAXONOMIC NAME: Calciorthidic Haploxeroll

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	%----------		----------	% H_2O----------		(g/cc)
Ap	Ave	0-7.6	42.98	40.31	16.71	---	---	9.46	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
A12	Ave	7.6-20	43.95	39.76	16.29	---	---	10.30	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
B2	Ave	20-41	46.19	38.87	14.94	---	---	9.93	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
C1	Ave	41-58	47.31	40.34	12.35	---	---	9.50	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
C2ca	Ave	58-94	51.67	40.13	8.20	---	---	8.37	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
	Ave	94-122	57.91	36.94	5.15	---	---	7.88	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Era

TAXONOMIC NAME: Calciorthidic Haploxeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---	----------		%	(ppm)	----------	----------	---Meq/100g---	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
Ap	Ave	7.4	---	0.9	0.09	10.0	---	---	10.8	6.9	0.15	1.84	3.1	19.7	99.9	86.4	1.57
	S D		---				---	---									
	Rng		---				---	---									
	N	1	---	1	1	1	---	---	1	1	1	1	1	1	1	1	1
A12	Ave	7.6	---	0.8	0.05	16.0	---	---	10.8	7.4	0.15	1.74	2.4	18.8	100.0	89.3	1.46
	S D		---				---	---									
	Rng		---				---	---									
	N	1	---	1	1	1	---	---	1	1	1	1	1	1	1	1	1
B2	Ave	7.7	---	0.6	0.06	10.0	---	---	12.4	8.6	0.24	1.56	3.3	18.7	100.0	84.1	1.44
	S D		---				---	---									
	Rng		---				---	---									
	N	1	---	1	1	1	---	---	1	1	1	1	1	1	1	1	1
C1	Ave	8.0	---	0.5	0.06	8.3	---	---	11.9	8.6	0.26	1.26	1.6	19.5	100.0	93.2	1.38
	S D		---				---	---									
	Rng		---				---	---									
	N	1	---	1	1	1	---	---	1	1	1	1	1	1	1	1	1
C2ca	Ave	8.5	---	0.3	0.40	7.5	---	---	10.8	8.8	0.74	1.18	0.5	18.2	100.0	97.7	1.23
	S D		---				---	---									
	Rng		---				---	---									
	N	1	---	1	1	1	---	---	1	1	1	1	1	1	1	1	1
	Ave	9.2	---	0.2	0.30	6.7	---	---	30.2	11.5	3.22	0.86	0.1	15.4	100.0	100.0	2.63
	S D		---				---	---									
	Rng		---				---	---									
	N	1	---	1	1	1	---	---	1	1	1	1	1	1	1	1	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Fives TAXONOMIC NAME: Ultic Haploxeralf

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
A1	Ave	10.0	39.55	43.2	17.25	---	---	14.65	---
	S D	---	.2	5.4	5.2	---	---	.5	---
	Rng	10.0	39-39.7	39-47	14-21	---	---	14-15	---
	N	2	2	2	2	---	---	2	---
A3	Ave	13.0	38.5	41.45	20.05	---	---	16.4	---
	S D	---	2.1	5.2	7.3	---	---	1.8	---
	Rng	13.0	37-40	38-45	15-25	---	---	15-18	---
	N	2	2	2	2	---	---	2	---
B1	Ave	15.0	37.05	38.25	24.7	---	---	18.8	---
	S D	7.1	2.1	6.4	8.5	---	---	2.0	---
	Rng	10-20	36-39	34-43	19-31	---	---	17-20	---
	N	2	2	2	2	---	---	2	---
B21t	Ave	21.5	35.65	33.25	31.1	---	---	21.25	---
	S D	2.1	1.1	8.0	6.9	---	---	.5	---
	Rng	20-23	35-36	28-39	26-36	---	---	21-21.6	---
	N	2	2	2	2	---	---	2	---
B22t	Ave	26.0	37.55	29.8	32.7	---	---	22.2	---
	S D	7.1	1.8	4.1	2.3	---	---	2.1	---
	Rng	21-31	36-39	27-33	31-34	---	---	21-24	---
	N	2	2	2	2	---	---	2	---
B3	Ave	28.5	40.35	28.35	31.3	---	---	22.25	---
	S D	16.3	4.2	2.2	2.0	---	---	3.7	---
	Rng	17-40	37-43	27-33	30-33	---	---	20-25	---
	N	2	2	2	2	---	---	2	---
C1	Ave	32.0	52.25	24.65	23.1	---	---	19.95	---
	S D	1.4	1.8	.6	2.4	---	---	4.0	---
	Rng	31-33	51-54	24-25	21-25	---	---	17-23	---
	N	2	2	2	2	---	---	2	---
C2	Ave	32.0	51.0	25.15	23.8	---	---	19.75	---
	S D	1.4	3.9	2.05	1.8	---	---	2.6	---
	Rng	31-33	48-54	23-27	23-25	---	---	18-22	---
	N	2	2	2	2	---	---	2	---
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Fives

TAXONOMIC NAME: Ultic Haploxeralf

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---	-------		%	(ppm)	----------	----------	--Meq/100g--	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
A1	Ave	5.75	---	2.2	.10	23.2	1.5	---	15.0	3.5	.2	1.25	13.1	35.2	57.1	60.45	4.3
	S D	.07	---	.2	.04	7.6	.14	---	.7	.3	---	1.1	1.8	5.7	4.9	1.6	.6
	Rng	5.7-5.8	---	2.1-2.4	.07-.13	18-29	1.4-1.6	---	15-15.5	3.3-3.7	.2	.5-2.0	12-14	31-39	54-61	59-62	3.9-4.7
	N	2	---	2	2	2	2	---	2	2	2	2	2	2	2	2	2
A3	Ave	5.25	---	1.1	.06	19.3	1.45	---	14.8	4.15	.2	1.1	11.25	34.15	59.8	64.35	3.6
	S D	.07	---	.01	.02	6.8	.35	---	.7	.9	---	.8	1.3	4.0	9.4	3.6	.6
	Rng	5.2-5.3	---	1-1.13	.05-.08	14-24	1.2-1.7	---	14-15	3.5-4.8	.2	.5-1.7	10-12	31-37	53-66	62-67	3.2-4.1
	N	2	---	2	2	2	2	---	2	2	2	2	2	2	2	2	2
B1	Ave	5.1	---	.6	.04	16.0	1.5	---	15.9	5.5	.2	.95	10.85	33.95	66.45	67.5	3.1
	S D	.1	---	.1	.01	8.4	.3	---	.8	1.8	.1	.6	.6	.9	2.5	1.1	1.2
	Rng	5.0-5.2	---	.51-.68	.03-.05	10-22	1.3-1.7	---	15-17	4.2-6.8	.1-.3	.5-1.4	10-11	33-35	65-68	67-68	2.3-3.9
	N	2	---	2	2	2	2	---	2	2	2	2	2	2	2	2	2
B21t	Ave	4.95	---	.45	.03	14.0	1.55	---	16.55	5.9	.15	.85	11.6	37.1	63.0	66.65	3.0
	S D	.07	---	.03	.01	5.7	.21	---	5.1	1.3	.07	.35	1.8	5.0	3.25	7.6	1.5
	Rng	4.9-5.0	---	.43-.47	.03-.04	10-18	1.4-1.7	---	13-20	5.0-6.8	.1-.2	.6-1.1	10-13	34-41	61-65	61-72	1.9-4.0
	N	2	---	2	2	2	2	---	2	2	2	2	2	2	2	2	2
B22t	Ave	4.95	---	.3	.03	13.7	1.45	---	17.55	6.1	.2	.75	11.6	36.6	66.3	67.0	2.95
	S D	.07	---	.1			.35	---	8.3	.3	---	.35	.1	4.7	14.2	7.8	1.5
	Rng	4.9-5.0	---	.24-.41			1.2-1.7	---	12-23	5.9-6.3	.2	.5-1.0	11.5-12	33-40	56-76	62-73	1.9-4.0
	N	2	---	2	1	1	2	---	2	2	2	2	2	2	2	2	2
B3	Ave	4.9	---	.2	---	---	1.35	---	18.3	6.9	.3	.65	11.1	37.3	68.95	69.5	2.65
	S D	.1	---	.02	---	---	.35	---	9.5	.3	---	.4	1.6	5.8	14.9	4.9	1.5
	Rng	4.8-5.0	---	.19-.22	---	---	1.1-1.6	---	12-25	6.7-7.1	.3	.4-.9	10-12	33-41	58-80	66-73	1.6-3.7
	N	2	---	2	---	---	2	---	2	2	2	2	2	2	2	2	2
C1	Ave	4.85	---	.135	---	---	1.0	---	16.2	5.9	.25	.5	11.15	35.5	63.75	66.5	2.95
	S D	.07	---	.02	---	---	.4	---	8.6	1.1	.07	.4	1.3	10.2	4.2	5.2	2.05
	Rng	4.8-4.9	---	.12-.15	---	---	.7-1.3	---	10-22	5.1-6.7	.2-.3	.2-.8	10-12	28-43	61-67	63-70	1.5-4.4
	N	2	---	2	---	---	2	---	2	2	2	2	2	2	2	2	2
C2	Ave	4.8	---	.175	---	---	1.3	---	15.1	5.65	.25	.4	11.15	35.65	60.2	65.75	3.1
	S D	.3	---	.007	---	---	.4	---	6.9	2.15	.07	.3	2.9	9.5	1.4	.4	2.4
	Rng	4.6-5.0	---	.17-.18	---	---	1.0-1.6	---	10-20	4.2-7.1	.2-.3	.2-.6	9.1-13	29-42	59-62	60-66	1.4-4.8
	N	2	---	2	---	---	2	---	2	2	2	2	2	2	2	2	2
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Flagstaff TAXONOMIC NAME: Haploxerollic Durargid

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	-----	-%-	-----	-----	-% H_2O-	-----	(g/cc)
A1	Ave	14.0	66.7	---	---	21.3	16.4	7.7	---
	S D	17.4	25.8	---	---	6.1	6.6	3.1	---
	Rng	5-45	29-88	---	---	17-32	12-28	5-13	---
	N	5	5	---	---	5	5	5	---
A3/B1	Ave	11.0	51.7	---	---	29.3	23.3	13.6	---
	S D	4.7	23.3	---	---	9.3	7.6	5.15	---
	Rng	6-18	23-76	---	---	22-45	17-36	10-22	---
	N	5	5	---	---	5	5	5	---
B2	Ave	16.8	48.5	---	---	43.8	35.5	24.6	---
	S D	3.4	23.8	---	---	9.0	9.95	5.7	---
	Rng	12-20	22-74	---	---	32-55	25-49	18-33	---
	N	5	5	---	---	5	5	5	---
B3	Ave	18.5	57.7	---	---	53.1	40.5	27.3	---
	S D	4.2	23.2	---	---	9.8	12.3	5.6	---
	Rng	13-23	35-79	---	---	44-67	28-56	21-34	---
	N	4	4	---	---	4	4	4	---
C1	Ave	31.0	44.0	---	---	84.4	72.1	33.9	---
	S D	13.5	19.25	---	---	24.3	22.6	9.2	---
	Rng	18-53	18-65	---	---	42-102	33-92	21-46	---
	N	5	5	---	---	5	5	5	---
C2	Ave	52.2	27.3	---	---	94.4	81.3	32.1	---
	S D	17.8	16.6	---	---	34.5	35.8	12.6	---
	Rng	28-73	10-49	---	---	44-102	31-132	19-52	---
	N	5	5	---	---	5	5	5	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Flagstaff

TAXONOMIC NAME: Haploxerollic Durargid

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)		%			%	(ppm)			Meq/100g				(NH_4OAc)	(Σ Cat)	
A1	Ave	8.2	---	.5	.05	9.8	---	---	5.4	2.7	6.9	4.2	---	19.3	---	---	1.9
	S D	1.0	---	.2	.015	2.8	---	---	2.4	1.1	5.0	2.5	---	12.9	---	---	1.1
	Rng	7.4-9.5	---	.2-.6	.03-.07	5.2-12	---	---	2.2-8.8	1.1-3.9	.6-25	1.5-8.0	---	10-42	---	---	1.2-3.7
	N	5	---	5	5	5	---	---	5	5	5	5	---	5	---	---	5
A3/B1	Ave	8.6	---	.45	.05	6.5	---	---	8.0	5.0	13.5	5.7	---	33.6	---	---	1.8
	S D	.8	---	.2	.015	3.8	---	---	3.2	1.7	13.6	2.9	---	18.1	---	---	1.1
	Rng	7.7-9.3	---	.2-.7	.03-.07	4.2-11	---	---	5.6-14	2.7-7.0	1.4-32	3.5-11	---	19-63	---	---	.8-3.4
	N	5	---	5	5	5	---	---	5	5	5	5	---	5	---	---	5
B2	Ave	9.1	---	.6	.06	8.8	---	---	13.3	9.1	27.7	6.2	---	48.8	---	---	1.6
	S D	.4	---	.3	.02	.9	---	---	7.2	4.7	23.6	2.9	---	19.1	---	---	1.2
	Rng	8.7-9.4	---	.3-.9	.04-.09	7.4-9.7	---	---	6-23	3-15	8-57	3-10	---	33-76	---	---	.5-3.6
	N	5	---	5	5	5	---	---	5	5	5	5	---	5	---	---	5
B3	Ave	9.3	---	.5	.06	8.8	---	---	17.3	9.05	32.4	4.9	---	47.95	---	---	2.8
	S D	.4	---	.2	.01	2.2	---	---	6.1	6.0	22.6	.85	---	35.7	---	---	1.8
	Rng	8.9-9.7	---	.2-.7	.04-.07	5.6-10	---	---	11-26	3-15	13-56	3.8-5.7	---	32-77	---	---	.8-4.7
	N	4	---	4	4	4	---	---	4	4	4	4	---	4	---	---	4
C1	Ave	9.2	---	.3	.06	6.15	---	---	24.3	20.9	27.3	5.4	---	56.2	---	---	2.6
	S D	.6	---	.2	.02	.8	---	---	20.4	18.2	16.3	1.2	---	18.3	---	---	2.5
	Rng	8.5-9.8	---	.1-.6	.04-.07	5.6-6.7	---	---	14-47	2-43	14-50	4.2-7.0	---	39-81	---	---	1.1-6.3
	N	5	---	5	2	2	---	---	4	4	4	4	---	4	---	---	4
C2	Ave	9.0	---	.3	.45	9.3	---	---	29.3	18.8	28.0	4.65	---	55.2	---	---	2.6
	S D	.7	---	.1	/	/	---	---	37.2	20.7	12.9	1.1	---	12.2	---	---	2.5
	Rng	8.1-9.8	---	.1-.4	/	/	---	---	4-95	2-51	15-42	3.0-5.7	---	39-68	---	---	.5-6.7
	N	5	---	5	1	1	---	---	5	5	5	5	---	5	---	---	5
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
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	Rng																
	N																

SOIL SERIES: Floke

TAXONOMIC NAME: Abruptic Xerollic Durargid

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density	Boron
		(cm)	----------	%----------		----------	% H_2O----------		(g/cc)	
A1	Ave	7.65	37.0	46.65	16.4	---	---	8.15	---	.895
	S D	3.6	23.4	5.3	18.1	---	---	8.6	---	.785
	Rng	5.1-10	20-54	43-50	3.4-29	---	---	2.1-14	---	.34-1.5
	N	2	2	2	2	---	---	2	---	2
B1	Ave	6.3	22.7	40.3	37.0	---	---	16.8	---	1.16
	S D	1.8	8.8	1.1	9.9	---	---	2.5	---	.042
	Rng	5-7.6	17-29	40-41	30-44	---	---	15-18	---	1.1-1.2
	N	2	2	2	2	---	---	2	---	2
B21t	Ave	10.2	16.5	33.95	49.55	---	---	26.6	---	6.52
	S D	---	4.10	8.1	12.2	---	---	2.8	---	5.77
	Rng	10.2	14-19	28-40	41-59	---	---	25-29	---	2.4-11
	N	2	2	2	2	---	---	2	---	2
B22t	Ave	10.15	9.85	41.1	45.7	---	---	30.65	---	2.53
	S D	.07	2.05	18.5	21.2	---	---	3.5	---	2.14
	Rng	10-10.2	8.4-11	28-54	31-61	---	---	28-33	---	1.01-4
	N	2	2	2	2	---	---	2	---	3
C1 (sim/ca)	Ave	8.9	24.7	54.05	21.25	---	---	30.4	---	3.80
	S D	1.8	5.09	1.6	6.7	---	---	1.8	---	3.32
	Rng	7.6-10	21-28	53-55	17-26	---	---	29-32	---	1.5-6.1
	N	2	2	2	2	---	---	2	---	2
Csim	Ave	8.85	53.9	34.15	12.0	---	---	29.6	---	2.84
	S D	1.8	3.0	.4	3.3	---	---		---	1.70
	Rng	7.6-10	52-56	34-34.4	9.6-14	---	---		---	1.63-4
	N	2	2	2	2	---	---	2	---	2
	Ave									
	S D									
	Rng									
	N									
	Ave									
	S D									
	Rng									
	N									
	Ave									
	S D									
	Rng									
	N									

SOIL SERIES: Floke TAXONOMIC NAME: Abruptic Xerollic Durargid

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)		---%---			%	(ppm)			--Meq/100g--				(NH_4OAc)	(Σ Cat)	
A1	Ave	7.55	1.4	.825	---	---	---	21.1	8.45	5.4	.7	1.5	---	11.5	86.5	---	2.0
	S D	1.2	1.7	1.0	---	---	---	25.7	7.3	5.8	.9	1.1	---	4.6	19.1	---	.8
	Rng	6.7-8.4	.21-2.6	.12-1.5	---	---	---	2.9-39	3.3-14	1.3-9.5	.6-.7	.66-2.3	---	8.2-15	73-100	---	1.4-2.5
	N	2	2	2	---	---	---	2	2	2	2	2	---	2	2	---	2
B1	Ave	7.8	1.8	1.07	---	---	---	9.0	16.4	9.35	5.05	1.4	---	30.6	96.7	---	1.8
	S D	1.1	.9	.5	---	---	---	11.7	---	1.5	6.3	.8	---	9.8	4.7	---	.3
	Rng	7-8.6	1.2-2.5	.68-1.5	---	---	---	.3-17	16.4	8.3-10	.6-9.5	.81-2	---	24-38	93-100	---	1.6-2
	N	2	2	2	---	---	---	2	2	2	2	2	---	2	2	---	2
B21t	Ave	7.6	1.45	.6	---	---	---	4.3	22.7	14.25	9.7	1.4	---	46.1	96.7	---	1.6
	S D	1.1	.3	.5	---	---	---	5.1	1.0	.9	12.1	.04	---	7.5	4.7	---	.03
	Rng	6.8-8.4	1.2-1.7	.32-.96	---	---	---	.7-7.9	22-23	14-15	1.1-18	1.3-1.4	---	41-51	93-100	---	1.57-1.6
	N	2	2	2	---	---	---	2	2	2	2	2	---	2	2	---	2
B22t	Ave	7.7	1.7	.8	---	---	---	1.8	31.75	17.95	15.2	1.5	---	46.6	100	---	1.8
	S D	.7	.5	.6	---	---	---	.6	1.06	2.2	19.2	.45	---	3.7	---	---	.2
	Rng	7.2-8.2	1.3-2.1	.36-1.2	---	---	---	1.4-2.2	31-33	16-20	1.6-29	1.2-1.8	---	44-49	100	---	1.7-1.9
	N	2	2	2	---	---	---	2	2	2	2	2	---	2	2	---	2
C1 (sim/Ca)	Ave	8.4	1.2	.7	---	---	---	3.8	43.7	18.75	19.4	1.4	---	45.8	100	---	2.4
	S D	.1	.1	.06	---	---	---	.3	6.0	2.5	23.8	.5	---	4.8	---	---	.6
	Rng	8.3-8.5	1.1-1.2	.64-.72	---	---	---	3.6-4.0	40-48	17-21	2.5-36	1.0-1.8	---	42-49	100	---	1.9-2.8
	N	2	2	2	---	---	---	2	2	2	2	2	---	2	2	---	2
Csim	Ave	8.6	1.4	.9	---	---	---	11.65	38.0	14.8	13.4	1.0	---	51.5	100	---	2.6
	S D	.3	.15	.06	---	---	---	1.9	.7	1.7	16.0	.4	---	3.3	---	---	.35
	Rng	8.4-8.8	1.3-1.5	.88-.96	---	---	---	10-13	38-39	14-16	2.1-25	.69-1.3	---	49-54	100	---	2.3-2.8
	N	2	2	2	---	---	---	2	2	2	2	2	---	2	2	---	2
	Ave																
	S D																
	Rng																
	N																
	Ave																
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	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Floke-like

TAXONOMIC NAME: Abruptic Xerollic Durargid

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
A1	Ave	4.0	46.9	48.2	5.0	---	---	3.8	---
	S D	2.1	5.6	4.7	.92	---	---	1.2	---
	Rng	2.5-5.5	43-51	45-52	4.3-5.6	---	---	2.9-4.6	---
	N	2	2	2	2	---	---	2	---
B1	Ave	13.8	18.9	44.0	37.2	---	---	16.2	---
	S D	5.7	10.5	13.9	24.4	---	---	9.1	---
	Rng	9-18	11-26	34-54	20-54	---	---	9-23	---
	N	2	2	2	2	---	---	2	---
B2	Ave	14.0	11.4	29.7	59.0	---	---	31.5	---
	S D	1.8	.14	8.4	8.6	---	---	.35	---
	Rng	12-15	11-12	24-36	53-65	---	---	31-32	---
	N	2	2	2	2	---	---	2	---
B3	Ave	8.9	12.6	40.5	47.0	---	---	32.9	---
	S D	1.8	1.7	19.4	17.8	---	---	2.5	---
	Rng	7-10	11-14	26-54	34-60	---	---	31-35	---
	N	2	2	2	2	---	---	2	---
Csim	Ave	8.9	75.5	19.6	4.9	---	---	---	---
	S D	5.4				---	---	---	---
	Rng	5-13				---	---	---	---
	N	2	1	1	1	---	---	---	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Floke-like

TAXONOMIC NAME: Abruptic Xerollic Durargid

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	---%---				%	(ppm)	---Meq/100g---						(NH_4OAc)	(Σ Cat)	
A1	Ave	8.1	.69	.40	---	---	---	8.3	5.6	2.4	.80	6.7	---	9.5	100	---	2.31
	S D	.50	.1	.06	---	---	---	3.5	1.6	.71	.15	8.6	---	2.7	---	---	---
	Rng	7.7-8.4	.62-.76	.36-.44	---	---	---	5-11	4.4-6.7	1.9-2.9	.69-.90	.59-13	---	7-11	100	---	2.31
	N	2	2	2	---	---	---	2	2	2	2	2	---	2	2	---	2
B1	Ave	7.9	.80	.46	---	---	---	2.9	12.9	7.7	4.65	.69	---	21.8	99.0	---	1.70
	S D	.14	.25	.14	---	---	---	2.1	8.1	5.1	3.0	.26	---	10.0	1.4	---	.08
	Rng	7.8-8	.6-1	.3-.6	---	---	---	1-4	7-19	4-11	2-7	.5-.9	---	14-29	98-100	---	1.6-1.8
	N	2	2	2	---	---	---	2	2	2	2	2	---	2	2	---	2
B2	Ave	8.1	1.6	.95	---	---	---	1.3	22.8	16.8	11.0	1.2	---	36.4	100	---	1.4
	S D	.21	.15	.07	---	---	---	.21	3.5	.57	.92	.11	---	5.4	---	---	.16
	Rng	7.9-8.2	1.5-1.7	.9-1	---	---	---	1.1-1.4	20-25	16-17	10-12	1.1-1.3	---	32-40	100	---	1.2-1.5
	N	2	2	2	---	---	---	2	2	2	2	2	---	2	2	---	2
B3	Ave	8.2	1.63	.94	---	---	---	1.7	29.3	20.7	15.3	1.36	---	50.2	100	---	1.4
	S D	---	.83	.48	---	---	---	.78	6.0	6.1	5.2	.13	---	8.7	---	---	.13
	Rng	8.2	1.0-2.2	.6-1.3	---	---	---	4.9-5.8	36-60	14-23	9-21	1-1.3	---	29-54	100	---	2.4-2.7
	N	2	2	2	---	---	---	2	2	2	2	2	---	2	2	---	2
Csim	Ave	8.3	2.0	1.2	---	---	---	5.4	48.0	18.6	15.3	1.2	---	41.8	100	---	2.6
	S D	.92	.69	.40	---	---	---	.64	17.0	5.6	8.0	.22	---	17.0	---	---	.13
	Rng	7.6-8.9	1.5-2.5	.8-1.4	---	---	---	4.9-5.8	36-60	14-23	9-21	1-1.3	---	29-54	100	---	2.4-2.7
	N	2	2	2	---	---	---	2	2	2	2	2	---	2	2	---	2
	Ave																
	S D																
	Rng																
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	Rng																
	N																

SOIL SERIES: Fopiano

TAXONOMIC NAME: Typic Argixeroll

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)		%			% H_2O		(g/cc)
A1	Ave	0-7.6	28.53	44.61	26.86	---	---	15.13	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
A12	Ave	7.6-20	23.02	38.80	38.18	---	---	19.46	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
B2t	Ave	20-38	23.01	34.61	42.38	---	---	24.23	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
C	Ave	Tuff	50.88	37.39	11.73	---	---	21.19	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Fopiano TAXONOMIC NAME: Typic Argixeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	--------	---%---	--------		%	(ppm)	--------	--------	--Meq/100g--	--------	--------	--------	(NH_4OAc)	(Σ Cat)	
A1	Ave	7.1	9.84	2.81	0.19	14.79	---	22.2	21.3	6.7	0.4	1.7	6.5	31.1	96.8	82.2	3.18
	S D	/	/	/	/	/	---	/	/	/	/	/	/	/	/	/	/
	Rng	/	/	/	/	/	---	/	/	/	/	/	/	/	/	/	/
	N	1	1	1	1	1	---	1	1	1	1	1	1	1	1	1	1
A12	Ave	7.0	---	---	0.14	---	---	10.3	24.7	7.6	0.3	1.7	5.6	35.9	95.5	86.0	3.25
	S D	/	---	---	/	---	---	/	/	/	/	/	/	/	/	/	/
	Rng	/	---	---	/	---	---	/	/	/	/	/	/	/	/	/	/
	N	1	---	---	1	---	---	1	1	1	1	1	1	1	1	1	1
B2t	Ave	7.1	1.63	0.95	---	---	---	4.4	34.3	10.2	0.5	1.0	5.0	46.9	98.1	90.2	3.36
	S D	/	/	/	---	---	---	/	/	/	/	/	/	/	/	/	/
	Rng	/	/	/	---	---	---	/	/	/	/	/	/	/	/	/	/
	N	1	1	1	---	---	---	1	1	1	1	1	1	1	1	1	1
C	Ave	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	S D	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Rng	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Ave																
	S D																
	Rng																
	N																
	Ave																
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	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Fort Rock

TAXONOMIC NAME: Durixerollic Camborthid

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density	Exch. Na	$CaCO_3$ equiv.
		(cm)	----------	%	----------	----------	% H_2O	----------	(g/cc)		
A1	Ave	0-7.6	48.6	51.4	---	33.9	26.1	12.7	---	0.7	2
	S D				---				---		
	Rng				---				---		
	N	1	1	1	---	1	1	1	---	1	1
A3	Ave	7.6-13	38.6	61.4	---	39.8	29.9	16.0	---	0.6	2
	S D				---				---		
	Rng				---				---		
	N	1	1	1	---	1	1	1	---	1	1
B1	Ave	13-18	36.1	63.9	---	48.7	36.4	18.3	---	0.9	6
	S D				---				---		
	Rng				---				---		
	N	1	1	1	---	1	1	1	---	1	1
B2	Ave	18-28	36.7	63.3	---	58.7	45.6	19.5	---	1.1	15
	S D				---				---		
	Rng				---				---		
	N	1	1	1	---	1	1	1	---	1	1
B3mca	Ave	28-48	34.9	65.1	---	68.4	57.1	19.2	---	1.6	32
	S D				---				---		
	Rng				---				---		
	N	1	1	1	---	1	1	1	---	1	1
C1	Ave	48-66	38.0	62.0	---	63.3	49.2	19.4	---	1.5	10
	S D				---				---		
	Rng				---				---		
	N	1	1	1	---	1	1	1	---	1	1
C2	Ave	66-99	52.5	47.5	---	53.4	40.0	20.5	---	1.4	2
	S D				---				---		
	Rng				---				---		
	N	1	1	1	---	1	1	1	---	1	1
C3	Ave	99.0+	35.2	64.8	---	62.7	48.8	24.2	---	1.9	1
	S D				---				---		
	Rng				---				---		
	N	1	1	1	---	1	1	1	---	1	1
	Ave										
	S D										
	Rng										
	N										

SOIL SERIES: Fort Rock

TAXONOMIC NAME: Durixerollic Camborthid

Horizon	Stat.	pH (1:1 H_2O)	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat. (NH_4OAc)	% Base Sat. (Σ Cat)	Ca/Mg
			---%				%	(ppm)	---Meq/100g---								
A1	Ave	8.0	---	0.80	0.089	9.0	---	---	28.0	4.0	0.2	4.5	---	26.8	100	---	7.0
	S D		---				---	---					---			---	
	Rng		---				---	---					---			---	
	N	1	---	1	1	1	---	---	1	1	1	1	---	1	1	---	1
A3	Ave	8.1	---	0.76	0.093	8.2	---	---	31.5	4.5	0.2	3.5	---	31.8	100	---	7.0
	S D		---				---	---					---			---	
	Rng		---				---	---					---			---	
	N	1	---	1	1	1	---	---	1	1	1	1	---	1	1	---	1
B1	Ave	8.2	---	0.68	0.083	8.2	---	---	36.1	5.3	0.3	3.6	---	34.6	100	---	6.81
	S D		---				---	---					---			---	
	Rng		---				---	---					---			---	
	N	1	---	1	1	1	---	---	1	1	1	1	---	1	1	---	1
B3mca	Ave	8.2	---	0.51	0.057	8.9	---	---	31.6	6.1	0.5	2.5	---	32.2	100	---	5.18
	S D		---				---	---					---			---	
	Rng		---				---	---					---			---	
	N	1	---	1	1	1	---	---	1	1	1	1	---	1	1	---	1
C1	Ave	8.3	---	0.37	---	---	---	---	33.6	7.9	0.5	1.4	---	33.5	100	---	4.25
	S D		---		---	---	---	---					---			---	
	Rng		---		---	---	---	---					---			---	
	N	1	---	1	---	---	---	---	1	1	1	1	---	1	1	---	1
C2	Ave	8.2	---	0.41	---	---	---	---	32.6	10.1	0.5	1.2	---	34.6	100	---	3.23
	S D		---		---	---	---	---					---			---	
	Rng		---		---	---	---	---					---			---	
	N	1	---	1	---	---	---	---	1	1	1	1	---	1	1	---	1
C3	Ave	8.2	---	0.52	---	---	---	---	32.8	12.4	0.8	1.8	---	41.2	100	---	2.65
	S D		---		---	---	---	---					---			---	
	Rng		---		---	---	---	---					---			---	
	N	1	---	1	---	---	---	---	1	1	1	1	---	1	1	---	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Freezener

TAXONOMIC NAME: Ultic Haploxeralf

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	---%			---% H_2O---			(g/cc)
A1	Ave	21.6	34.2	43.2	22.7	---	---	18.7	---
	S D	1.84	7.7	5.52	2.19	---	---	1	---
	Rng	20-23	29-40	39-47	21-24	---	---	18-19	---
	N	2	2	2	2	---	---	2	---
A3	Ave	17.75	28.3	43.9	27.9	---	---	20.1	---
	S D	.07	12.59	4.03	8.49	---	---	3.39	---
	Rng	17.7-18	19-37	41-47	22-34	---	---	18-23	---
	N	2	2	2	2	---	---	2	---
B22t	Ave	42	22.5	38.5	39.3	---	---	24.5	---
	S D	1.77	9.19	1.77	7.85	---	---	1.7	---
	Rng	41-43	16-29	37-40	34-45	---	---	23-26	---
	N	2	2	2	2	---	---	2	---
B23t	Ave	30.5	27.6	36.2	36.2	---	---	24.5	---
	S D	3.54	15.98	4.67	11.31	---	---	3.32	---
	Rng	28-33	16-39	33-40	28-44	---	---	22-27	---
	N	2	2	2	2	---	---	2	---
B3t+R	Ave	101.6	36.4	37.5	26.2	---	---	20.2	---
	S D	46.67	20.51	4.17	16.55	---	---	4.88	---
	Rng	69-135	22-51	35-40	15-38	---	---	17-24	---
	N	2	2	2	2	---	---	2	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Freezener

TAXONOMIC NAME: Ultic Haploxeralf

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	--------	---%---	--------		%	(ppm)	--------	--------	--Meq/100g--	--------	--------	--------	(NH_4OAc)	(Σ Cat)	
A1	Ave	5.15	---	2.78	.55	22.5	3.5	---	11.0	3.0	.13	1.05	19.1	38.0	41	44.3	3.73
	S D	.5	---	.71	.57	2.1	.9	---	1.8	.14	.04	.21	2.4	2.6	7.8	6	.78
	Rng	5.4-6.1	---	2.3-3.3	.15-.96	21-24	2.9-4.1	---	9.8-12	2.9-3.1	.1-.15	.9-1.2	17-21	36-40	35-46	40-49	3.2-4.3
	N	2	---	2	2	2	2	---	2	2	2	2	2	2	2	2	2
A3	Ave	5.5	---	1.0	.567	14.5	3.8	---	8.75	3.55	.15	.8	17.9	33.5	39.3	42	2.48
	S D	.07	---	.30	.024	.71	.50	---	2.05	.92	.07	---	1.13	5.52	1.5	4.24	.06
	Rng	5.2-5.8	---	.77-1.2	.05-.08	14-15	3.4-4.1	---	7.3-10	2.9-4.2	.1-.2	.8	17-19	30-37	38-41	39-45	2.4-2.5
	N	2	---	2	2	2	2	---	2	2	2	2	2	2	2	2	2
B22t	Ave	5.3	---	.253	.027	14	3.85	---	10.2	3.85	.15	1.2	13.6	32.13	48	53.8	2.71
	S D	.212	---	.149			.071	---	1.91	1.63	---	.283	4.81	8.27	2.8	4.6	.778
	Rng	5.2-5.5	---	.15-.36			3.8-3.9	---	8.8-12	2.7-5	.15	1.0-1.4	10-17	26-38	46-50	51-57	2.2-3.3
	N	2	---	2	1	1	2	---	2	2	2	2	2	2	2	2	2
B23t	Ave	5.25	---	.12	---	---	3.4	---	9.55	4.3	.2	1.2	13.9	35.5	43	52.5	2.3
	S D	.283	---	.028	---	---	.141	---	1.77	1.56	---	---	3.54	4.31	4.2	.71	.417
	Rng	5.1-5.5	---	.10-.14	---	---	3.3-3.5	---	8-11	3.2-5.4	.2	1.2	11-16	32-39	40-46	52-53	2-2.59
	N	2	---	2	---	---	2	---	2	2	2	2	2	2	2	2	2
B3t+R	Ave	5.28	---	.11	---	---	2.6	---	7.6	3.78	.2	1.05	14.8	32.3	38.5	45.8	2.06
	S D	.141	---	.092	---	---	.849	---	2.97	1.84	---	.212	3.11	7.43	6.4	5.3	.212
	Rng	5.2-5.4	---	.04-.17	---	---	2-3.2	---	5.5-9.7	2.5-5.1	.2	.9-1.2	13-17	27-38	34-43	42-50	1.9-2.2
	N	2	---	2	---	---	2	---	2	2	2	2	2	2	2	2	2
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
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	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Frohman **TAXONOMIC NAME:** Xerollic Durorthid

Horizon	Stat.	Horizon Thickness (cm)	Sand (%)	Silt (%)	Clay (%)	.10 Atm. (% H_2O)	.33 Atm. (% H_2O)	15 Atm. (% H_2O)	Bulk Density (g/cc)
Ap	Ave	0-20	16.21	70.41	13.38	---	---	8.28	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
B2	Ave	20-36	9.85	71.92	18.23	---	---	11.30	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
CiSIM	Ave	36-61	9.30	81.38	9.32	---	---	11.93	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Frohman TAXONOMIC NAME: Xerollic Durorthid

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	%	%	%		%	(ppm)	Meq/100g	Meq/100g	Meq/100g	Meq/100g	Meq/100g	Meq/100g	(NH_4OAc)	(Σ Cat)	
Ap	Ave	7.8	0.42	---	---	---	---	4	10.0	4.6	0.56	1.28	2.2	7.99	100	88.1	2.17
	S D	/	/	---	---	---	---	/	/	/	/	/	/	/	/	/	/
	Rng			---	---	---	---										
	N	1	1	---	---	---	---	1	1	1	1	1	1	1	1	1	1
B2	Ave	7.8	0.41	---	---	---	---	2	10.8	8.4	1.38	0.92	2.3	10.84	100	90.3	1.29
	S D	/	/	---	---	---	---	/	/	/	/	/	/	/	/	/	/
	Rng			---	---	---	---										
	N	1	1	---	---	---	---	1	1	1	1	1	1	1	1	1	1
CiSIM	Ave	8.6	---	---	---	---	---	5	19.1	13.7	2.88	0.60	---	---	---	---	1.39
	S D	/	---	---	---	---	---	/	/	/	/	/	---	---	---	---	/
	Rng		---	---	---	---	---						---	---	---	---	
	N	1	---	---	---	---	---	1	1	1	1	1	---	---	---	---	1
	Ave																
	S D																
	Rng																
	N																
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SOIL SERIES: Goble

TAXONOMIC NAME: Andic Fragiumbrept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
A1	Ave	17.8	17.7	63.5	18.9	---	---	15.7	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
A3	Ave	15.2	18.3	70.0	14.8	---	---	13.3	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
B1t	Ave	38.1	18.6	65.9	15.6	---	---	12.0	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
B2t	Ave	33.0	18.25	63.25	19.05	---	---	11.7	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
IIBtb	Ave	22.9	15.3	59.0	25.7	---	---	13.2	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Goble TAXONOMIC NAME: Andic Fragiumbrept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---	-------		%	(ppm)	--------	--------	--Meq/100g--	--------	--------	--------	(NH_4OAc)	(Σ Cat)	
A1	Ave	5.95	5.7	---	---	---	---	7	7.5	2.25	.09	.81	23.9	14.6	52.1	36.4	3.25
	S D	.35	3.1	---	---	---	---		4.0	.50	.01	.15					1.1
	Rng	5.7-6.2	3.5-7.9	---	---	---	---		4-10	1.9-2.6	.08-.1	.7-.9					2.5-4
	N	2	2	---	---	---	---	1	2	2	2	2	1	1	1	1	2
A3	Ave	5.75	3.5	---	---	---	---	5	2.95	1.25	.08	.47	24.4	11.5	31.1	19.5	2.4
	S D	.49	3.15	---	---	---	---		1.6	.07	.03	.09					1.2
	Rng	5.4-6.1	1.2-5.7	---	---	---	---		1.8-4.1	1.2-1.3	.06-.1	.4-.6					1.5-3.2
	N	2	2	---	---	---	---	1	2	2	2	2	1	1	1	1	2
B1t	Ave	5.75	1.2	---	---	---	---	2	1.7	.75	.1	.34	16.3	15.1	32.2	8.4	2.0
	S D	.35	.85	---	---	---	---		1.6	.35	---	.06					1.1
	Rng	5.5-6.0	.6-1.8	---	---	---	---		.6-2.8	.5-1	.1	.3-.4					1.2-2.8
	N	2	2	---	---	---	---	1	2	2	2	2	1	1	1	1	2
B2t	Ave	5.73	.89	---	---	---	---	3	1.5	1.0	.50	.43	16.4	11.6	36.8	8.4	1.4
	S D	.25	.87	---	---	---	---		1.3	.74	.53	.18					.21
	Rng	5.5-5.9	.2-1.5	---	---	---	---		.6-2.4	.5-1.6	.1-.2	.1-.6					1.2-1.5
	N	2	2	---	---	---	---	1	2	2	2	2	1	1	1	1	2
IIBtb	Ave	5.5	.41	---	---	---	---	4	3.1	2.7	.13	.22	13.7	16.25	28.2	35.7	1.2
	S D	---	.27	---	---	---	---		1.4	.78	.04	.02					.21
	Rng	5.5	.2-.7	---	---	---	---		2.1-4.1	2.1-3.2	.1-.2	.2-.3					1-1.3
	N	2	2	---	---	---	---	1	2	2	2	2	1	1	1	1	2
	Ave																
	S D																
	Rng																
	N																
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	S D																
	Rng																
	N																

SOIL SERIES: Goodlow

TAXONOMIC NAME: Typic Cryumbrept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
A1	Ave	7.6	38.2	45.1	16.7	77.5	67.2	26.1	---
	S D	---							---
	Rng	7.6							---
	N	2	1	1	1	1	1	1	---
A3	Ave	22.8	40.6	39.6	19.8	44.7	39.8	24.0	---
	S D	7.21							---
	Rng	17-28							---
	N	2	1	1	1	1	1	1	---
B2	Ave	57.2	41.0	42.9	16.1	58.8	50.4	22.7	---
	S D	5.4							---
	Rng	53-61							---
	N	2	1	1	1	1	1	1	---
C	Ave	20.3	21.3	53.4	25.3	60.8	44.7	27.6	---
	S D	7.2							---
	Rng	15-25							---
	N	2	1	1	1	1	1	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Goodlow TAXONOMIC NAME: Typic Cryumbrept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	---%---				%	(ppm)	---Meq/100g---						(NH_4OAc)	(Σ Cat)	
A1	Ave	5.4	15.8	9.2	.278	28.3	4.4	3.8	.75	.35	.075	.44	---	39.8	4.6	---	1.3
	S D	2.8	3.2	1.8				.35	.50	.35	.035	.06	---	7.2	.64	---	.71
	Rng	5.2-5.8	13-18	8-11				3.5-4	.4-1.1	.1-.6	.05-.1	.4-.48	---	35-45	4-5	---	.8-1.8
	N	2	2	2	1	1	1	2	2	2	2	2	---	2	2	---	2
A3	Ave	5.25	5.9	3.4	.063	27.0	6.1	1.5	.6	.40	.122	.38	---	26.0	5.1	---	1.4
	S D	.35	4.2	2.4				---	.42	.14	.11	.02	---	6.3	.67	---	.57
	Rng	5-5.5	3-9	1.7-5.1				1.5	.3-.9	.3-.5	.05-.2	.36-.4	---	21-31	4.6-5.6	---	1-1.8
	N	2	2	2	1	1	1	2	2	2	2	2	---	2	2	---	2
B2	Ave	5.52	1.7	.99	.025	12.8	5.9	1.15	.6	.40	.455	.225	---	27.7	6.5	---	1.6
	S D	.46	1.7	.98				.21	.14	.14	.49	.035	---	4.4	3.6	---	.21
	Rng	5.2-5.9	.5-2.9	.3-.1.7				1-1.3	.5-.7	.3-.5	.11-.8	.2-.25	---	24-31	4-9	---	1.4-1.7
	N	2	2	2	1	1	1	2	2	2	2	2	---	2	2	---	2
C	Ave	5.35	.79	.45	.022	18.6	5.6	1.4	.5	.45	.58	.18	---	27.1	6.5	---	1.1
	S D	.35	.12	.07				.57	---	.07	.59	.03	---	2.3	3.3	---	.18
	Rng	5.1-5.6	.7-.9	.4-.5				1-1.8	.5	.4-.5	.16-1	.16-.2	---	25-29	4-9	---	1-1.25
	N	2	2	2	1	1	1	2	2	2	2	2	---	2	2	---	2
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
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	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Gustin

TAXONOMIC NAME: Aquultic Haploxeralf

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	%----------		----------	% H_2O----------		(g/cc)
A1	Ave	14.0	33.6	49.2	17.3	---	---	14.7	---
	S D	1.77	2.62	1.13	1.56	---	---	.78	---
	Rng	13-15	32-35	48-50	16-18	---	---	14-15	---
	N	2	2	2	2	---	---	2	---
A3	Ave	10.2	31.3	46.8	22	---	---	15.1	---
	S D	3.54	3.18	.50	3.68	---	---	.28	---
	Rng	7.7-13	29-33.5	46-47	19-25	---	---	15-15.3	---
	N	2	2	2	2	---	---	2	---
B1	Ave	16.5	22.7	45.3	32.1	---	---	17.4	1.45
	S D	1.84	1.91	1.63	.28	---	---	.71	
	Rng	15-18	21-24	44-46	32-32.3	---	---	17-18	
	N	2	2	2	2	---	---	2	1
B21	Ave	30.5	19.2	34.5	46.4	---	---	23.8	1.45
	S D	21.57	1.41	6.65	8.56	---	---	4.95	
	Rng	15-46	18-20	30-39	40-52	---	---	20-27	
	N	2	2	2	2	---	---	2	1
B22	Ave	30.5	14.8	30.4	54.8	---	---	28.4	1.44
	S D	7.21	2.69	1.84	4.53	---	---	4.74	.035
	Rng	25-36	13-17	29-32	52-58	---	---	25-32	1.4-1.5
	N	2	2	2	2	---	---	2	2
B3	Ave	38.1	20.7	35.1	44.3	---	---	25.2	1.37
	S D	3.54	3.89	.636	4.53	---	---	2.9	.028
	Rng	36-41	18-23	35-36	41-48	---	---	23-27	1.35-1.4
	N	2	2	2	2	---	---	2	2
C1	Ave	33.0	27.0	36	37.1	---	---	23.2	1.45
	S D	---	19.02	3.39	15.63	---	---	5.37	
	Rng	33.0	14-40	34-38	26-48	---	---	19-27	
	N	2	2	2	2	---	---	2	1
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Gustin

TAXONOMIC NAME: Aquultic Haploxeralf

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)		%			%	(ppm)			Meq/100g				(NH_4OAc)	(Σ Cat)	
A1	Ave	5.9	---	2.76	.152	20.25	1.95	---	12.0	3.25	.15	.875	16.55	32.0	51.5	50.3	4.03
	S D	---	---	.757	.028	3.89	.495	---	.212	1.34	.071	.177	3.6	2.05	7.8	7.43	1.63
	Rng	5.9	---	2.2-3.3	.13-.17	18-23	1.6-2.3	---	12-12.2	2.3-4.2	.1-.2	.75-1	14-19	31-34	46-57	45-56	2.9-5.2
	N	2	---	2	2	2	2	---	2	2	2	2	2	2	2	2	2
A3	Ave	5.7	---	1.47	.103	14	1.9	---	10.3	3.6	.15	.8	13.4	29	52	42.5	2.87
	S D	.141	---	.573	.013	4.24	.141	---	2.9	1.13	.071	.141	11.6	.85	14.9	14.85	.071
	Rng	5.6-5.8	---	1.1-1.9	.09-.11	11-17	1.8-2	---	8.2-12	2.8-4.4	.1-.2	.7-.9	10-17	28-30	41-62	42-63	2.8-2.9
	N	2	---	2	2	2	2	---	2	2	2	2	2	2	2	2	2
B1	Ave	5.4	---	.64	.06	10.5	2.0	---	11.8	4.3	.2	.55	10.8	26.3	64	61	2.68
	S D	.495	---	.092	.007	.707	.424	---	2.33	1.0	---	.071	3.32	3.89	3.5	12.73	
	Rng	5.0-5.7	---	.57-.7	.06-.07	10-11	1.7-2.3	---	10-13	3.6-5	.2	.5-.6	8.4-13	24-29	61-66	52-70	
	N	2	---	2	2	2	2	---	2	2	2	2	2	2	2	2	1
B21	Ave	4.7	---	.30	.04	10	2.1	---	16.0	6.8	.35	.35	14.5	38.8	59	59.5	2.72
	S D	.212	---	.163			.636	---	8.132	4.1	.212	.071	1.77	10.61	16	6.26	.141
	Rng	4.5-4.8	---	.18-.41			1.6-2.5	---	10-22	3.9-9.7	.2-.5	.3-.4	13-16	31-46	47-70	48-71	2.6-2.8
	N	2	---	2	1	1	2	---	2	2	2	2	2	2	2	2	2
B22	Ave	4.2	---	.19	.023	10	1.65	---	19.4	8.5	.6	.3	16.2	43.1	65	62.5	2.36
	S D	.141	---	.042			.071	---	8.34	4.53	.283	.141	1.0	7.64	18	12.02	.283
	Rng	4.1-4.3	---	.16-.22			1.6-1.7	---	14-25	5.3-12	.4-.8	.2-.4	16-17	38-49	52-78	54-71	2.2-2.6
	N	2	---	2	1	1	2	---	2	2	2	2	2	2	2	2	2
B3	Ave	4.1	---	.095	---	---	1.6	---	18.1	7.6	.9	.3	13.7	41.5	65	66.5	2.41
	S D	.141	---	.007	---	---	1.41	---	3.39	1.98	---	.141	.636	6.93	2.0	3.54	.177
	Rng	4.0-4.2	---	.09-.10	---	---	.2-2.3	---	16-21	6.2-9	.9	.2-.4	13-14	37-46	63-66	64-69	2.3-2.5
	N	2	---	2	---	---	2	---	2	2	2	2	2	2	2	2	2
C1	Ave	2.45	---	.08	---	---	1.4	---	16.8	7	.7	.25	12.5	38.7	63	66	2.5
	S D	.707	---	.014	---	---	.141	---	5.45	3.111	.283	.071	1.2	10.68	5.7	5.66	.325
	Rng	2.9-3.9	---	.07-.09	---	---	1.3-1.5	---	13-21	4.8-9.2	.5-.9	.2-.3	12-13	31-46	59-67	62-70	2.2-2.7
	N	2	---	2	---	---	2	---	2	2	2	2	2	2	2	2	2
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Hall Ranch

TAXONOMIC NAME: Ultic Haploxeroll

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
A11	Ave	5.0	29.5	52.4	18.2	---	---	14.8	1.1
	S D	---	2.5	4.8	2.3	---	---	.3	.09
	Rng	5.0	28-31	49-56	16.5-20	---	---	14.6-15	1-1.1
	N	2	2	2	2	---	---	2	2
A12	Ave	16.6	28.9	52.9	18.2	---	---	13.4	1.07
	S D	1.84	1	4	3	---	---	1.7	.03
	Rng	15.3-18	28-30	50-56	16-20.3	---	---	12-14.6	1-1.1
	N	2	2	2	2	---	---	2	2
B1	Ave	19.1	30.7	50.1	19.3	---	---	13.4	---
	S D	5.4	3.6	6.2	2.6	---	---	2.3	---
	Rng	15-23	28-33	46-54.5	17-21	---	---	12-15	---
	N	2	2	2	2	---	---	2	---
B2	Ave	38.1	27.6	52.5	19.9	---	---	13.2	---
	S D	3.6	5.1	6.9	1.8	---	---	2.4	---
	Rng	36-41	24-31	48-57	19-21	---	---	11.5-15	---
	N	2	2	2	2	---	---	2	---
B3&R	Ave	19.1	23.6	53.7	22.8	---	---	15.5	---
	S D	12.6	.9	9	9.9	---	---	3.2	---
	Rng	10-28	23-24	47-60	16-30	---	---	13-18	---
	N	2	2	2	2	---	---	2	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Hall Ranch TAXONOMIC NAME: Ultic Haploxeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	-------	---%---	-------		%	(ppm)	-------	-------	---Meq/100g---	-------	-------	-------	(NH_4OAc)	(Σ Cat)	
A11	Ave	6.2	---	4.34	.20	21.5	1.4	---	17.9	4.2	.05	2.65	15.2	27.9	89.5	62.5	4.25
	S D	.42	---	2	.06	3.5	.14	---	.7	---	.07	.64	5.1	3.7	12	7.8	.21
	Rng	6-6.5	---	2.9-5.7	.16-.24	19-24	1.3-1.5	---	17-18	4.2	Tr-.1	2.2-3.1	11.6-19	25-31	81-98	57-68	4.1-4.4
	N	2	---	2	2	2	2	---	2	2	2	2	2	2	2	2	2
A12	Ave	6.45	---	2.09	.12	17.5	1.45	---	15.6	3.5	.05	2.15	10.4	22.7	93.5	67	4.6
	S D	.21	---	.11	.004	.71	.21	---	2.4	.35	.07	.07	1.1	.64	6.4	4.2	1.1
	Rng	6.3-6.6	---	2-2.2	.12-.13	17-18	1.3-1.6	---	14-17	3.2-3.7	Tr-.1	2.1-2.2	9.6-11	22-23	98-98	64-70	3.8-5.4
	N	2	---	2	2	2	2	---	2	2	2	2	2	2	2	2	2
B1	Ave	6.5	---	1.4	.09	15.5	1.5	---	13.5	3.6	0.1	2	9.1	20.1	95	68	3.8
	S D	.3	---	.4	.002	3.5	.3	---	2.3	.3	---	.2	2.7	.7	5.7	8.5	.9
	Rng	6.3-6.7	---	1.1-1.7	.08-.09	13-18	1.3-1.7	---	12-15	3.4-3.8	.1	1.8-2	7-11	19.6-21	91-99	62-74	3.1-4.4
	N	2	---	2	2	2	2	---	2	2	2	2	2	2	2	2	2
B2	Ave	6.6	---	.655	.29	12.5	1.3	---	10.8	3.25	0.1	1.7	6.7	17.1	92.5	70.5	3.25
	S D	.14	---	.007	.33	.71	.3	---	2.8	.35	---	.71	.35	2.3	2.1	2.1	.5
	Rng	6.5-6.8	---	.65-.66	.05-.52	12-13	1.1-1.5	---	9-13	3-3.5	0.1	1.2-2.2	6.4-6.9	15.5-19	91-94	69-72	2.9-3.6
	N	2	---	2	2	2	2	---	2	2	2	2	2	2	2	2	2
B3&R	Ave	6.7	---	.68	---	---	1.2	---	11.3	3.9	.15	.75	5	16.9	95	76.5	2.9
	S D	---	---	.02	---	---	---	---	1.6	.14	.07	.21	.5	1.4	---	.7	.6
	Rng	6.7	---	.66-.69	---	---	1.2	---	10-12.4	3.8-4	.1-.2	.6-.9	4.6-5.3	16-18	95	76-77	2.5-3.5
	N	2	---	2	---	---	2	---	2	2	2	2	2	2	2	2	2
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Hankins

TAXONOMIC NAME: Ultic Palexeroll

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)		%			% H_2O		(g/cc)
A11	Ave	20.3	47.5	31.7	20.8	---	---	7.7	---
	S D	4.4	11.9	.8	12.7	---	---		---
	Rng	15.2-23	39-56	31-32	12-30	---	---		---
	N	3	2	2	2	---	---	1	---
A12	Ave	15.2	42.2	32.5	25.2	---	---	10.4	---
	S D	5.1	13.3	3.7	9.6	---	---		---
	Rng	10-20	33-51.7	30-35	18.5-32	---	---		---
	N	3	2	2	2	---	---	1	---
A3	Ave	26.3	40.1	28.8	31.1	---	---	13.3	---
	S D	10.6	12.5	8.4	4.1	---	---		---
	Rng	18-38	31-49	23-35	28-34	---	---		---
	N	3	2	2	2	---	---	1	---
B2	Ave	22.8	30.9	29.1	40.0	---	---	21.8	---
	S D	4.5	.3	1.7	1.5	---	---		---
	Rng	18-25	30.7-31	28-30	39-41	---	---		---
	N	3	2	2	2	---	---	1	---
IIB2b	Ave	27.95	29.1	28.1	42.9	---	---	19.8	---
	S D	10.8	7.5	2.5	10.1	---	---		---
	Rng	20-36	24-35	26-30	36-50	---	---		---
	N	2	2	2	2	---	---	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Hankins TAXONOMIC NAME: Ultic Palexeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---	----------		%	(ppm)	----------	----------	--Meq/100g--	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
A11	Ave	6.05	4.8	3.7	.16	22.4	---	28.0	14.5	5.1	.1	1.3	5.8	24.2	98.6	76.3	2.9
	S D	.6		2.9	.12	.6	---		3.6	1.3	.05	.3	2.1	10	14	6.2	.8
	Rng	5.6-6.5		1.7-5.7	.08-.3	22-22.8	---		12-18	3.7-6.3	.13-.2	1-1.6	4.3-7.3	18-36	74-100	72-81	2.1-3.6
	N	2	1	2	2	2	---	1	3	3	3	3	2	3	3	2	2
A12	Ave	6.6	2.5	2.3	.11	20.6	---	15	15.0	6.0	.2	1.1	4.0	24.6	90.9	84.1	2.6
	S D	---		1.8	.08	.8	---		2.0	1.04	.04	.35	.4	7.3	14.7	.8	.7
	Rng	6.6		1-3.6	.05-.2	20-21	---		13-16	4.8-6.7	.13-.2	.9-1.5	3.7-4.3	20-33	74-100	84-85	1.9-2.5
	N	2	1	2	2	2	---	1	3	3	3	3	2	3	3	2	2
A3	Ave	6.5	1.1	1.35	.09	14.1	---	11	20.1	9.4	.3	1.04	8.1	32.0	90.9	82	2.1
	S D	.1		.9	.03	6.0	---		8.0	1.5	.1	.2	5.0	7.2	15.6	5.7	.5
	Rng	6.4-6.6		.7-2	.07-.1	10-18.5	---		14-29	8-11	.15-.4	.9-1.3	4.5-12	25-39	73-100	78-86	1.7-2.6
	N	2	1	2	2	2	---	1	3	3	3	3	2	3	3	2	3
B2	Ave	6.95	.5	.85	.05	16.9	---	48	20.6	11.3	.3	1.0	3.7	30.0	93.03	91.15	1.9
	S D	.2		.5	.03	.3	---		5.3	3.4	.09	.1	1.8	2.7	12.07	3.2	.6
	Rng	6.8-7.1		.5-1.2	.03-.07	16.7-17	---		15-24	9.2-15	.24-.4	.8-1.1	2.4-5	27-32	79-100	89-93	1.5-2.6
	N	2	1	2	2	2	---	1	3	3	3	3	2	3	3	2	3
IIB2b	Ave	6.9	---	.55	.045	12.0	---	---	23.2	14.3	.4	.7	4.2	34.45	91.8	91.1	1.6
	S D		---	.2	.007	2.8	---	---	5.7	.6	.1	.03		9.3	11.5		.3
	Rng		---	.4-.7	.04-.05	10-15	---	---	19-27	14-15	.3-.5	.7-.74		28-41	84-100		1.4-1.9
	N	1	---	2	2	2	---	---	2	2	2	2	1	2	2	1	2
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Hatchery

TAXONOMIC NAME: Dystric Eutrochrept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	%----------		----------	% H_2O----------		(g/cc)
A1	Ave	0-22.9	51.2	38.0	10.4	---	---	---	---
	S D					---	---	---	---
	Rng					---	---	---	---
	N	1	1	1	1	---	---	---	---
B21	Ave	30.4	58.8	31.0	10.2	27.6	23.7	17.9	1.0
	S D								
	Rng								
	N	1	1	1	1	1	1	1	1
B22	Ave	28.0	55.0	35.2	9.3	---	---	---	---
	S D					---	---	---	---
	Rng					---	---	---	---
	N	1	1	1	1	---	---	---	---
C1-Dr	Ave	33.0	60.6	31.3	8.1	---	---	---	---
	S D					---	---	---	---
	Rng					---	---	---	---
	N	1	1	1	1	---	---	---	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Hatchery

TAXONOMIC NAME: Dystric Eutrochrept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	------------	---%---	------------		%	(ppm)	------------	------------	--Meq/100g--	------------	------------	------------	(NH_4OAc)	(Σ Cat)	
A1	Ave	6.2	4.0	4.0	0.14	28.4	---	---	27.7	10.0	0.05	2.4	---	---	43.2	93.2	2.8
	S D						---	---					---	---			
	Rng						---	---					---	---			
	N	1	1	1	1	1	---	---	1	1	1	1	---	---	1	1	1
B21	Ave	6.5	1.5	1.5	0.07	21.9	---	---	21.2	8.2	0.05	1.9	---	---	35.1	90.5	2.6
	S D						---	---					---	---			
	Rng						---	---					---	---			
	N	1	1	1	1	1	---	---	1	1	1	1	---	---	1	1	1
B22	Ave	6.4	1.1	1.1	0.05	22.6	---	---	19.8	8.6	0.05	1.6	---	---	34.4	88.6	2.3
	S D						---	---					---	---			
	Rng						---	---					---	---			
	N	1	1	1	1	1	---	---	1	1	1	1	---	---	1	1	1
Ci-Dr	Ave	6.5	1.1	1.1	0.05	22.8	---	---	23.0	9.4	0.02	1.5	---	---	37.2	93.0	2.5
	S D						---	---					---	---			
	Rng						---	---					---	---			
	N	1	1	1	1	1	---	---	1	1	1	1	---	---	1	1	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Hazelair

TAXONOMIC NAME: Aquultic Haploxeroll

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
A1	Ave	19.1	9.5	48	42.6	---	---	21.7	---
	S D	1.8	6.5	.4	6.1	---	---	3.7	---
	Rng	18-20	5-14	47.7-48	38-47	---	---	19-24	---
	N	2	2	2	2	---	---	2	---
B1	Ave	10.15	8	36.6	55.4	---	---	26.8	---
	S D	.07	6.8	10.3	17	---	---	11.5	---
	Rng	10-10.2	3-12.8	29-44	43-68	---	---	19-35	---
	N	2	2	2	2	---	---	2	---
B21	Ave	14	5.1	30	65	---	---	32.2	---
	S D	5.4	2.9	.6	2.3	---	---	4.2	---
	Rng	10-18	3-7	29.5-30	63-67	---	---	29-36	---
	N	2	2	2	2	---	---	2	---
B22	Ave	16.6	3.8	33.4	62.8	---	---	33.3	---
	S D	1.8	.6	1.1	1.7	---	---	6.1	---
	Rng	15-18	3.4-4.2	33-34	62-64	---	---	29-38	---
	N	2	2	2	2	---	---	2	---
B23	Ave	26.7	2.9	45.4	52	---	---	32.6	---
	S D	5.5	.8	4.7	5.5	---	---	6.4	---
	Rng	23-31	2.3-3.4	42-49	48-56	---	---	28-37	---
	N	2	2	2	2	---	---	2	---
R	Ave	15.3	16.8	47.2	36.1	---	---	35.1	---
	S D	3.6	19.5	4.9	14.6	---	---	.5	---
	Rng	13-18	3-31	44-51	26-46	---	---	34.7-35	---
	N	2	2	2	2	---	---	2	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Hazelair

TAXONOMIC NAME: Aquultic Haploxeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)		%			%	(ppm)			Meq/100g				(NH_4OAc)	(Σ Cat)	
A1	Ave	5.2	---	2.23	1.1	11.3	3	---	18.2	7.3	.2	.83	14.3	---	---	69.5	2.5
	S D	.14	---	.03	1.3	.35	.4	---	3.7	1.8	---	.11	.9	---	---	3.5	.1
	Rng	5.1-5.3	---	2.2-2.3	.2-1.9	11-12	2.7-3.3	---	16-21	6-9	.2	.8-.9	14-15	---	---	62-67	2.4-2.6
	N	2	---	2	2	2	2	---	2	2	2	2	2	---	---	2	2
B1	Ave	5.1	---	1	.1	10	2.6	---	23.8	10.8	.25	.8	13.8	---	---	70.5	2.26
	S D	.2	---	.3	.035	---	.3	---	11.6	6.1	.07	.3	1.1	---	---	9.2	.2
	Rng	4.9-5.2	---	.8-1.3	.08-.13	10	2.4-2.8	---	15.6-32	6.5-15	.2-.3	.6-1	13-15	---	---	64-77	2.1-2.4
	N	2	---	2	2	2	2	---	2	2	2	2	2	---	---	2	2
B21	Ave	4.6	---	.6	.066	9.5	2.75	---	28.7	13.6	.35	.85	17.3	---	---	71	2.1
	S D	.14	---	.014	.008	.7	.5	---	5.7	2.5	.07	.07	2.4	---	---	7.1	.02
	Rng	4.5-4.7	---	.59-.61	.06-.07	9-10	2.4-3.1	---	25-33	12-15	.3-.4	.8-.9	16-19	---	---	66-76	2.09-2.1
	N	2	---	2	2	2	2	---	2	2	2	2	2	---	---	2	2
B22	Ave	4.6	---	.41	.042	10	2.6	---	29.7	13.6	.5	.75	18.4	---	---	70	2.2
	S D	---	---	.04			.3	---	7.4	2.9	.14	.07	3.2	---	---	8.5	.12
	Rng	4.6	---	.38-.44			2.4-2.8	---	24-35	12-16	.4-.6	.7-.8	16-21	---	---	64-76	2.1-2.2
	N	2	---	2	1	1	2	---	2	2	2	2	2	---	---	2	2
B23	Ave	4.65	---	.18	---	---	2.45	---	33	14.5	.5	.7	14.9	---	---	76	2.3
	S D	.07	---	.06	---	---	.07	---	8.3	3	.14	.14	3	---	---	8.5	.1
	Rng	4.6-4.7	---	.13-.22	---	---	2.4-2.5	---	27-39	12-17	.4-.6	.6-.8	13-17	---	---	70-82	2.2-2.3
	N	2	---	2	---	---	2	---	2	2	2	2	2	---	---	2	2
R	Ave	5	---	.165	---	---	3	---	46.1	16	.7	.6	12.8	---	---	83.5	3
	S D	.3	---	.007	---	---	.14	---	5	5.6	.14	---	2.8	---	---	.71	.7
	Rng	4.8-5.2	---	.16-.17	---	---	2.9-3.1	---	43-50	12-20	.6-.8	.6	11-15	---	---	83-84	2.5-3.5
	N	2	---	2	---	---	2	---	2	2	2	2	2	---	---	2	2
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Headley

TAXONOMIC NAME: Andic Dystrochrept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	%	----------	----------	% H_2O	----------	(g/cc)
Aoo + Ao	Ave	2.5-0	---------- NO AVAILABLE DATA ----------						
	S D								
	Rng								
	N	1							
A2	Ave	0-1.3	---------- NO AVAILABLE DATA ----------						
	S D								
	Rng								
	N	1							
B21r	Ave	1.3-3.8	---------- NO AVAILABLE DATA ----------						
	S D								
	Rng								
	N	1							
B311r	Ave	3.8-20	25.6	60.3	14.0	---	---	---	---
	S D					---	---	---	---
	Rng					---	---	---	---
	N	1	1	1	1	---	---	---	---
B321r	Ave	20-38	20.7	59.8	19.5	---	---	---	---
	S D					---	---	---	---
	Rng					---	---	---	---
	N	1	1	1	1	---	---	---	---
B331r	Ave	38-56	19.6	61.6	18.8	---	---	---	---
	S D					---	---	---	---
	Rng					---	---	---	---
	N	1	1	1	1	---	---	---	---
C	Ave	56-97	32.0	57.8	10.2	---	---	---	---
	S D					---	---	---	---
	Rng					---	---	---	---
	N	1	1	1	1	---	---	---	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Headley

TAXONOMIC NAME: Andic Dystrochrept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)		%			%	(ppm)			Meq/100g				(NH_4OAc)	(Σ Cat)	
Aoo + Ao	Ave	4.3							NO AVAILABLE DATA								
	S D	/															
	Rng																
	N	1															
A2	Ave	4.2							NO AVAILABLE DATA								
	S D	/															
	Rng																
	N	1															
B2ir	Ave	4.8							NO AVAILABLE DATA								
	S D	/															
	Rng																
	N	1															
B31ir	Ave	5.4	15.0	8.7	.291	30.0	4.8	1.5	.2	.2	.3	.4	---	26.6	4.4	---	1.0
	S D	/	/	/	/	/	/	/	/	/	/	/	---	/	/	---	/
	Rng												---			---	
	N	1	1	1	1	1	1	1	1	1	1	1	---	1	1	---	1
B32ir	Ave	5.6	8.2	4.8	.176	27.0	4.9	2.8	.4	.3	.3	.4	---	24.6	5.5	---	1.3
	S D	/	/	/	/	/	/	/	/	/	/	/	---	/	/	---	/
	Rng												---			---	
	N	1	1	1	1	1	1	1	1	1	1	1	---	1	1	---	1
B33ir	Ave	5.7	4.0	2.3	.121	19.0	5.1	3.3	.4	.4	.4	.3	---	21.2	7.1	---	1.0
	S D	/	/	/	/	/	/	/	/	/	/	/	---	/	/	---	/
	Rng												---			---	
	N	1	1	1	1	1	1	1	1	1	1	1	---	1	1	---	1
C	Ave	5.8	1.9	1.1	.064	18.0	5.4	1.5	.2	.5	.6	.3	---	21.1	7.3	---	.4
	S D	/	/	/	/	/	/	/	/	/	/	/	---	/	/	---	/
	Rng												---			---	
	N	1	1	1	1	1	1	1	1	1	1	1	---	1	1	---	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Hebo

TAXONOMIC NAME: Typic Umbraquult

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	%----------		----------	% H_2O----------		(g/cc)
Apg	Ave	10.2	4.7	43.6	51.7	---	---	---	---
	S D	---	1.2	10.1	9.1	---	---	---	---
	Rng	10.2	3.8-5.5	36-51	45-58	---	---	---	---
	N	2	2	2	2	---	---	---	---
A3g	Ave	14	4.7	42.4	52.9	---	---	---	---
	S D	1.8	1.6	11.4	10	---	---	---	---
	Rng	12.7-15	3.6-5.8	34-50.4	46-50	---	---	---	---
	N	2	2	2	2	---	---	---	---
BG1	Ave	22.9	2.9	49.2	47.6	---	---	---	---
	S D	3.6				---	---	---	---
	Rng	20-25.4				---	---	---	---
	N	2	1	1	1	---	---	---	---
BG2	Ave	28	4.9	33.1	62	---	---	---	---
	S D	3.5	1.6	8.8	10.5	---	---	---	---
	Rng	26-30	3.8-6	27-39	55-69	---	---	---	---
	N	2	2	2	2	---	---	---	---
BG3	Ave	17.75	8.4	36.2	55.35	---	---	---	---
	S D	.07	.5	.35	.07	---	---	---	---
	Rng	17.7-18	8-8.7	36-36.4	55-55.4	---	---	---	---
	N	2	2	2	2	---	---	---	---
C	Ave	17.8	22	34.2	43.7	---	---	---	---
	S D		18.2	5.6	23.6	---	---	---	---
	Rng		9.1-35	30.2-38	27-60.4	---	---	---	---
	N	1	2	2	2	---	---	---	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Hebo

TAXONOMIC NAME: Typic Umbraquult

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---	----------		%	(ppm)	----------	----------	Meq/100g	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
Apg	Ave	4.8	11.7	6.8	.65	10.5	---	---	2.25	1.8	.45	.35	---	36.6	14	---	1.1
	S D	.14	1.3	.8	.04	2.1	---	---	2.5	1.27	.07	.07	---	2.9	11.3	---	.7
	Rng	4.7-4.9	11-12.6	6.2-7.3	.62-.67	9-12	---	---	.5-4.0	.9-2.7	.4-.5	.3-.4	---	34.5-39	6-22	---	.6-1.6
	N	2	2	2	2	2	---	---	2	2	2	2	---	2	2	---	2
A3g	Ave	4.8	8.8	5.1	.48	10.5	---	---	2.3	2	.45	.25	---	34.2	15	---	.95
	S D	.14	4	2.3	.05	3.54	---	---	2.4	1.27	.07	.07	---	2.83	12.7	---	.64
	Rng	4.7-4.9	6-11.6	3.5-6.7	.44-.51	8-13	---	---	.6-4	1.1-2.9	.4-.5	.2-.3	---	32-36	6-24	---	.5-1.4
	N	2	2	2	2	2	---	---	2	2	2	2	---	2	2	---	2
BG1	Ave	4.9	1.6	.95	.10	10	---	---	4	3.6	.45	.15	---	27.7	41	---	1.2
	S D	.42	.57	.35	.007	2.8	---	---		.3	.07	.07	---	11.8		---	
	Rng	4.6-5.2	1.2-2	.7-1.2	.09-.1	8-12	---	---		3.4-3.8	.4-.5	.1-.2	---	19-36		---	
	N	2	2	2	2	2	---	---	1	2	2	2	---	2	1	---	1
BG2	Ave	4.9	1.2	.70	.06	11	---	---	4.7	4.9	.5	.2	---	31.8	33.5	---	1
	S D	.42	.6	.3	.01	2.8	---	---	.4	1.8	---	---	---	11.5	5	---	.3
	Rng	4.6-5.2	.8-1.6	.5-.9	.05-.07	9-13	---	---	4.4-5	3.6-6.1	.5	.2	---	23.6-40	30-37	---	.8-1.2
	N	2	2	2	2	2	---	---	2	2	2	2	---	2	2	---	2
BG3	Ave	5.05	1.1	.65	.055	11.5	---	---	5.9	5.8	.5	.2	---	39.5	31	---	1.1
	S D	.21	.4	.21	.007	3.5	---	---	2.1	3.4	.14	---	---	2.1	12.7	---	.28
	Rng	4.9-5.2	.8-1.4	.5-.8	.05-.06	9-14	---	---	4.4-7.4	3.4-8.2	.4-.6	.2	---	38-41	22-40	---	.9- 1.3
	N	2	2	2	2	2	---	---	2	2	2	2	---	2	2	---	2
C	Ave	5.15	.6	.35	.045	7.5	---	---	10.8	8.7	.55	.15	---	39.4	42	---	1.25
	S D	.21	.28	.21	.007	2.1	---	---	8.6	6.6	.21	.07	---	13.4	29.7	---	.07
	Rng	5-5.3	.4-.8	.2-.5	.04-.05	6-9	---	---	4.7-17	4-13.3	.4-.7	.1-.2	---	30-49	21-63	---	1.2-1.3
	N	2	2	2	2	2	---	---	2	2	2	2	---	2	2	---	2
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Helvetia

TAXONOMIC NAME: Ultic Argixeroll

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
Ap	Ave	25.4	9.86	71.3	18.9	---	---	---	---
	S D	---				---	---	---	---
	Rng	25.4				---	---	---	---
	N	2	1	1	1	---	---	---	---
B1	Ave	20.4	6.97	69.9	23.1	---	---	---	---
	S D	3.6				---	---	---	---
	Rng	18-23				---	---	---	---
	N	2	1	1	1	---	---	---	---
B21t	Ave	22.8	4.84	64.1	31.1	---	---	---	---
	S D	---				---	---	---	---
	Rng	22.8				---	---	---	---
	N	2	1	1	1	---	---	---	---
B22t	Ave	22.9	3.84	61.7	34.5	---	---	---	---
	S D	10.8				---	---	---	---
	Rng	15.3-31				---	---	---	---
	N	2	1	1	1	---	---	---	---
B3t	Ave	35.6	3.2	63.3	33.5	---	---	---	---
	S D	14.4				---	---	---	---
	Rng	25-46				---	---	---	---
	N	2	1	1	1	---	---	---	---
C1	Ave	25.4	5.3	67.5	27.2	---	---	---	---
	S D	---				---	---	---	---
	Rng	25.4				---	---	---	---
	N	2	1	1	1	---	---	---	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Helvetia

TAXONOMIC NAME: Ultic Argixeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)		%			%	(ppm)			Meq/100g				(NH_4OAc)	(Σ Cat)	
Ap	Ave	6.1	2.6	1.91	---	---	---	---	7.3	1.35	.15	.75	11.4	17	56.4	46	5.4
	S D	.42	1.1		---	---	---	---	.14	.07	.21	.07	2	2.1	7.9	4.2	.14
	Rng	6-6.5	1.8-3.3		---	---	---	---	7.2-7.4	1.3-1.4	0-.3	.7-.8	10-12.8	16-18	51-62	43-49	5.3-5.5
	N	2	2	1	---	---	---	---	2	2	2	2	2	2	2	2	2
B1	Ave	6.1	.7	.23	---	---	---	---	6	1.85	.1	.55	8.5	14.1	61.1	50	3.4
	S D	.4	.42		---	---	---	---	.3	.64	---	.07	1.1	1.6	15.8	---	1
	Rng	5.8-6.3	.4-1		---	---	---	---	5.8-6.2	1.4-2.3	.1	.5-.6	7.7-9.3	13-15.2	51-71	50	2.7-4
	N	2	2	1	---	---	---	---	2	2	2	2	2	2	2	2	2
B21t	Ave	5.6	.35	.12	---	---	---	---	8.8	3.1	.15	.8	8.1	32.2	77.3	61.5	2.9
	S D	.5	.21		---	---	---	---	1.4	.3	.07	---	1.9	16	16.5	7.8	.71
	Rng	5.2-5.9	.2-.5		---	---	---	---	7.8-9.8	2.9-3.3	.1-.2	.8	6.7-9.4	21-43.5	65.6-89	56-67	2.4-3.4
	N	2	2	1	---	---	---	---	2	2	2	2	2	2	2	2	2
B22t	Ave	5.7	.20	.06	---	---	---	---	10.8	4.4	.60	.95	8.8	20.1	84.2	65.5	2.45
	S D	.42	.14		---	---	---	---	2.1	.71	.71	.07	1.1	11.4	22.4	7.8	.07
	Rng	5.4-6	.1-.3		---	---	---	---	9.3-12	3.9-4.9	.1-1.1	.9-1	8-9.5	12-28	68-100	60-71	2.4-2.5
	N	2	2	1	---	---	---	---	2	2	2	2	2	2	2	2	2
B3t	Ave	5.5	.25	.17	---	---	---	---	13.6	5	.75	.98	9.2	27.6	73.8	29.5	2.73
	S D	.5	.07		---	---	---	---	1.8	.5	.78	.85	1.4	6	4.2	1.8	.11
	Rng	5.2-5.8	.2-.3		---	---	---	---	12.3-15	4.6-5.3	.2-1.3	.9-1.1	8.2-10	23.4-32	71-76.8	64-73	2.7-2.8
	N	2	2	1	---	---	---	---	2	2	2	2	2	2	2	2	2
C1	Ave	5.5	.1	.06	---	---	---	---	13.0	4.6	.55	.8	7.9	23.8	79.7	70	2.85
	S D	.4	---		---	---	---	---	---	.4	.49	.14	1.4	1.8	1.7	4.24	.21
	Rng	5.2-5.8	.1		---	---	---	---	13	4.3-4.9	.2-.9	.7-.9	6.9-8.9	22.5-25	79-81	67-73	2.7-3
	N	2	2	1	---	---	---	---	2	2	2	2	2	2	2	2	2
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Henley

TAXONOMIC NAME: Aquic Durorthid

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------	----% H_2O----	----------	(g/cc)
Ap	Ave	15.5	54.8	28.0	17.2	---	32.2	15.6	1.25
	S D	3.5				---	.64	.6	.01
	Rng	13-18				---	32-33	15-16	1.2-1.3
	N	2	1	1	1	---	2	2	2
A1	Ave	15	---	---	---	---	---	17	---
	S D		---	---	---	---	---		---
	Rng		---	---	---	---	---		---
	N	1	---	---	---	---	---	1	---
B2	Ave	35	55.2	28.5	16.0	---	32.9	15.5	1.2
	S D	--				---	6.3	3.2	.15
	Rng	35				---	28.5-37	13-17.8	1.1-1.3
	N	2	1	1	1	---	2	2	2
B3	Ave	33	58.1	28.8	13.2	---	31.2	19.7	1.19
	S D	7				---		3.7	
	Rng	28-38				---		17-22	
	N	2	1	1	1	---	1	2	1
C	Ave	24	77.1	17	6	---	28.4	16.9	1.32
	S D	14.1				---	3.6	.6	.2
	Rng	14-34				---	25.9-31	16.5-17	1.2-1.5
	N	2	1	1	1	---	2	2	2
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Henley TAXONOMIC NAME: Aquic Durorthid

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	---%				%	(ppm)	---Meq/100g---						(NH_4OAc)	(Σ Cat)	
Ap	Ave	8.3	---	1.2	.12	---	.5	---	---	---	9.4	6.3	---	30.4	---	---	---
	S D	.9	---	.4	.04	---		---	---	---	11.4	1.5	---	8	---	---	---
	Rng	7.7-8.9	---	.9-1.5	.09-.14	---		---	---	---	1-17.5	5-7.3	---	25-36	---	---	---
	N	2	---	2	2	---	1	---	---	---	2	2	---	2	---	---	---
A1	Ave	8.9	---	---	---	---	---	---	---	---	14.6	5.0	---	28.4	---	---	---
	S D		---	---	---	---	---	---	---	---			---		---	---	---
	Rng		---	---	---	---	---	---	---	---			---		---	---	---
	N	1	---	---	---	---	---	---	---	---	1	1	---	1	---	---	---
B2	Ave	8.4	---	.69	.087	---	.45	---	---	---	6.6	2.5	---	31.7	---	---	---
	S D	.11	---	.2		---		---	---	---	3.8	.8	---	2.3	---	---	---
	Rng	8.4-8.5	---	.57-.81		---		---	---	---	4-9.3	2-3.1	---	30-33	---	---	---
	N	2	---	2	1	---	1	---	---	---	2	2	---	2	---	---	---
B3	Ave	8.33	---	.58	---	---	.25	---	---	---	5.7	1.23	---	36.3	---	---	---
	S D	.1	---	.03	---	---		---	---	---	.92	.32	---	3	---	---	---
	Rng	8.3-8.4	---	.56-.61	---	---		---	---	---	5-6.3	1-1.5	---	34-38.5	---	---	---
	N	2	---	2	---	---	1	---	---	---	2	2	---	2	---	---	---
C	Ave	8.43	---	.28	---	---	.3	---	---	---	7.4	.7	---	35.1	---	---	---
	S D	.04	---	.06	---	---		---	---	---	4.5	.11	---	10.3	---	---	---
	Rng	8.4-8.5	---	.24-.32	---	---		---	---	---	4.2-11	.6-.8	---	28-42.3	---	---	---
	N	2	---	2	---	---	1	---	---	---	2	2	---	2	---	---	---
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Holcomb

TAXONOMIC NAME: Mollic Albaqualf

Horizon	Stat.	Horizon Thickness (cm)	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density (g/cc)	Sulfur (ppm)	Boron (ppm)
			%			% H_2O					
1	Ave	0-5.1	---	---	---	---	---	---	---	---	---
	S D	/	---	---	---	---	---	---	---	---	---
	Rng		---	---	---	---	---	---	---	---	---
	N	1	---	---	---	---	---	---	---	---	---
2	Ave	5.1-25	45.2	37.6	17.2	---	---	---	---	89.4	.34
	S D	/	/	/	/	---	---	---	---	/	/
	Rng					---	---	---	---		
	N	1	1	1	1	---	---	---	---	1	1

SOIL SERIES: Holcomb TAXONOMIC NAME: Mollic Albaqualf

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	---------	---%---	---------		%	(ppm)	---------	---------	---Meq/100g---	---------	---------	---------	(NH_4OAc)	(Σ Cat)	
1	Ave	6.8	3.57	---	.13	---	---	21.0	19.1	8.15	.157	.328	---	30.2	---	---	---
	S D	/	/	---	/	---	---	/	/	/	/	/	---	/	---	---	---
	Rng			---		---	---						---		---	---	---
	N	1	1	---	1	---	---	1	1	1	1	1	---	1	---	---	---
2	Ave	5.9	2.22	---	.10	---	---	19.0	19.5	7.62	.182	.221	---	28.5	---	---	---
	S D	/	/	---	/	---	---	/	/	/	/	/	---	/	---	---	---
	Rng			---		---	---						---		---	---	---
	N	1	1	---	1	---	---	1	1	1	1	1	---	1	---	---	---
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
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	S D																
	Rng																
	N																

SOIL SERIES: Holland

TAXONOMIC NAME: Ultic Haploxeralf

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	%----------		----------	% H_2O----------		(g/cc)
A1	Ave	0-10	56.3	30.0	13.7	---	23.7	6.8	1.6
	S D					---			
	Rng					---			
	N	1	1	1	1	---	1	1	1
A2	Ave	10-20	54.5	32.9	12.5	---	---	6.0	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
B1	Ave	20-36	52.4	29.9	17.7	---	20.0	6.9	1.8
	S D					---			
	Rng					---			
	N	1	1	1	1	---	1	1	1
B21t	Ave	36-71	47.7	28.2	24.1	---	21.8	10.8	1.9
	S D					---			
	Rng					---			
	N	1	1	1	1	---	1	1	1
B22t	Ave	71-86	53.0	28.2	18.9	---	---	10.1	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
B3	Ave	86-125	61.4	27.0	11.6	---	---	---	---
	S D					---	---	---	---
	Rng					---	---	---	---
	N	1	1	1	1	---	---	---	---
C1	Ave	125-152	60.1	28.6	11.3	---	---	---	---
	S D					---	---	---	---
	Rng					---	---	---	---
	N	1	1	1	1	---	---	---	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Holland TAXONOMIC NAME: Ultic Haploxeralf

Horizon	Stat.	pH (1:1 H_2O)	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat. (NH_4OAc)	% Base Sat. (Σ Cat)	Ca/Mg
				%			%	(ppm)	Meq/100g								
A1	Ave	6.3	3.64	NO AVAILABLE DATA				63.0	6.4	1.4	.10	.42	6.3	---	---	56.9	---
	S D													---	---		---
	Rng													---	---		---
	N	1	1					1	1	1	1	1	1	---	---	1	---
A2	Ave	6.0	.96	NO AVAILABLE DATA				21.0	3.7	1.1	.10	.22	4.1	---	---	55.5	---
	S D													---	---		---
	Rng													---	---		---
	N	1	1					1	1	1	1	1	1	---	---	1	---
B1	Ave	5.9	.71	NO AVAILABLE DATA				9.0	3.4	1.5	.10	.11	4.1	---	---	55.5	---
	S D													---	---		---
	Rng													---	---		---
	N	1	1					1	1	1	1	1	1	---	---	1	---
B21t	Ave	5.6	---	NO AVAILABLE DATA				2.0	4.7	3.6	.14	.07	4.3	---	---	66.4	---
	S D		---											---	---		---
	Rng		---											---	---		---
	N	1	---					1	1	1	1	1	1	---	---	1	---
B22t	Ave	5.7	---	NO AVAILABLE DATA				---	5.7	4.3	.24	.07	4.2	---	---	71.1	---
	S D		---					---						---	---		---
	Rng		---					---						---	---		---
	N	1	---					---	1	1	1	1	1	---	---	1	---
B3	Ave	5.5	---	NO AVAILABLE DATA				2.0	7.4	5.1	.19	.03	3.1	---	---	80.4	---
	S D		---											---	---		---
	Rng		---											---	---		---
	N	1	---					1	1	1	1	1	1	---	---	1	---
C1	Ave	5.8	---	NO AVAILABLE DATA				---	8.1	4.9	.24	.03	3.0	---	---	81.6	---
	S D		---					---						---	---		---
	Rng		---					---						---	---		---
	N	1	---					---	1	1	1	1	1	---	---	1	---
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Honeygrove

TAXONOMIC NAME: Typic Haplohumult

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	%----------		----------	% H_2O----------		(g/cc)
A1	Ave	21.5	18.1	53.2	29.8	---	---	37.1	---
	S D	5	8.8	5.4	14	---	---	11.9	---
	Rng	18-25	11-23	49-57	20-40	---	---	29-45	---
	N	2	2	2	2	---	---	2	---
B1	Ave	21.5	11.8	43.9	44.4	---	---	28	---
	S D	2.12	1.6	4.6	3	---	---	1.1	---
	Rng	20-23	11-13	41-47	42-47	---	---	27-29	---
	N	2	2	2	2	---	---	2	---
B21t	Ave	23	11.4	40.1	48.5	---	---	28.6	---
	S D	4.2	3.4	2	1.1	---	---	2.4	---
	Rng	20-26	9.2-14	39-42	48-49	---	---	27-30	---
	N	2	2	2	2	---	---	2	---
B22t	Ave	28	10.1	38.2	51.8	---	---	31.5	---
	S D	11	5.8	11.5	17.3	---	---	.85	---
	Rng	20-36	6-14	30-46	40-64	---	---	31-32	---
	N	2	2	2	2	---	---	2	---
B23t	Ave	34	15.7	38.1	46.3	---	---	32.4	---
	S D	5.7	1.8	13	14.8	---	---	.35	---
	Rng	30-38	14-17	29-47	36-56	---	---	32-32.6	---
	N	2	2	2	2	---	---	2	---
B3	Ave	24.5	15.7	38.7	45.7	---	---	31.2	---
	S D	2.1	7.6	12.8	20.4	---	---	1.7	---
	Rng	23-26	10-21	30-48	31-60	---	---	30-32	---
	N	2	2	2	2	---	---	2	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Honeygrove

TAXONOMIC NAME: Typic Haplohumult

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---			%	(ppm)	----------	----------	---Meq/100g---	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
A1	Ave	4.75	----------	NO DATA AVAILABLE					3.0	3.2	.75	1.075	---	57.6	15.3	---	1.34
	S D	.4							.7	2.2	.07	.04	---	10	3.9	---	1.15
	Rng	4.5-5							2.5-3.5	1.6-4.7	.6-.7	1.05-1.	---	50-65	13-18	---	.5-2.2
	N	2							2	2	2	2	---	2	2	---	2
B1	Ave	4.6	----------	NO DATA AVAILABLE					2.1	.9	.45	.55	---	36.3	11	---	2.67
	S D	.14							.14	.42	.07	.07	---	6.9	1.4	---	1.42
	Rng	4.5-4.7							2-2.2	.6-1.2	.4-.5	.5-.6	---	31-41	10-12	---	1.7-3.7
	N	2							2	2	2	2	---	2	2	---	2
B21t	Ave	4.8	----------	NO DATA AVAILABLE					1.8	1.1	.45	.5	---	37	11	---	1.6
	S D	---							.5	---	.21	.3	---	9.7	4.2	---	.44
	Rng	4.8							1.4-2.1	1.1	.3-.6	.3-.7	---	30-44	8-14	---	1.3-1.9
	N	2							2	2	2	2	---	2	2	---	2
B22t	Ave	4.6	----------	NO DATA AVAILABLE					1.2	1.6	.6	.4	---	41.8	10	---	.72
	S D	.4							.6	.4	---	.3	---	14.6	5.7	---	.16
	Rng	4.3-4.8							.8-1.6	1.3-1.9	.6	.2-.6	---	31-52	6-14	---	.6-.8
	N	2							2	2	2	2	---	2	2	---	2
B23t	Ave	4.6	----------	NO DATA AVAILABLE					1.5	1.65	.6	.35	---	47.6	9	---	.94
	S D	.14							.14	.35	---	.21	---	14.7	1.4	---	.29
	Rng	4.5-4.7							1.4-1.6	1.4-1.9	.6	.2-.5	---	37-58	8-10	---	.7-1.1
	N	2							2	2	2	2	---	2	2	---	2
B3	Ave	4.55	----------	NO DATA AVAILABLE					1.5	1.45	.5	.35	---	41.8	9.5	---	1.08
	S D	.07							.7	.21	---	.21	---	11.4	3.5	---	.65
	Rng	4.5-4.6							1-2	1.3-1.6	.5	.2-.5	---	34-50	7-12	---	.6-1.5
	N	2							2	2	2	2	---	2	2	---	2
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Hood

TAXONOMIC NAME: Ultic Haploxeralf

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
Ap	Ave	11.8	40.2	50.3	9.6	---	---	7.9	---
	S D	3.9	9.7	9	.6	---	---	.85	---
	Rng	7.6-15	33.3-47	44-57	9.2-10	---	---	7.3-8.5	---
	N	3	2	2	2	---	---	2	---
A3	Ave	10.4	39.6	51.5	8.95	---	---	5.7	---
	S D	4.3	9	8.9	.07	---	---	.2	---
	Rng	7.6-15	33-46	45.2-58	8.9-9	---	---	5.5-5.8	---
	N	3	2	2	2	---	---	2	---
B1	Ave	25.1	37.9	53.5	8.6	---	---	5.25	---
	S D	.42	10.9	10.3	.57	---	---	.35	---
	Rng	25-25.4	30-46	46-61	8.2-9	---	---	5-5.5	---
	N	2	2	2	2	---	---	2	---
B21	Ave	31.8	33.8	50.7	15.1	---	---	8.55	---
	S D	5.4	13.3	9.7	2.9	---	---	1.5	---
	Rng	28-35.6	24.4-43	44-57.5	13-17	---	---	7.5-9.6	---
	N	2	2	2	2	---	---	2	---
B31	Ave	47	34.3	45.9	19.8	---	---	11.1	---
	S D	5.4	5	8.8	3.8	---	---	.14	---
	Rng	43-51	31-38	40-52	17-22.5	---	---	11-11.2	---
	N	2	2	2	2	---	---	2	---
B32	Ave	38.1	36	48.7	15.4	---	---	10.6	---
	S D	---	7.9	10.1	2.2	---	---	1.2	---
	Rng	38.1	30-42	41.5-56	14-17	---	---	10-11.4	---
	N	2	2	2	2	---	---	2	---
C	Ave	76.2	37.3	51.1	11.6	---	---	8.6	---
	S D	18	24.2	25	.9	---	---	.2	---
	Rng	64-89	20-54	33-69	11-12	---	---	8.5-8.8	---
	N	2	2	2	2	---	---	2	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Hood

TAXONOMIC NAME: Ultic Haploxeralf

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	----%	----------		%	(ppm)	----------	----------	Meq/100g	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
Ap	Ave	5.9	2.7	2.35	.19	13	1.1	64.5	9.4	1.35	.25	1.05	8.3	---	---	57.5	---
	S D	.5		.5	.04	---			2.9	.07	.07	.07	1.5	---	---	12	---
	Rng	5.5-6.5		2-2.7	.16-.21	13			6.1-10	1.3-1.4	.2-.3	1-1.1	7.2-9.3	---	---	49-66	---
	N	3	1	2	2	2	1	1	3	2	2	2	2	---	---	2	---
A3	Ave	5.8	3.0	.99	.08	12	1.1	53.1	6.9	1	.2	.6	7.6	---	---	49.5	---
	S D	.15		.05	.005	1.4			2.1	.14	---	.14	.17	---	---	.7	---
	Rng	5.7-6		.95-1	.08-.09	11-13			5.3-9.3	.9-1.1	.2	.5-.7	7.5-7.7	---	---	49-50	---
	N	3	1	2	2	2	1	1	3	2	2	2	2	---	---	2	---
B1	Ave	6.15	---	.25	.03	8	1.1	---	4.9	1.1	.15	.55	5.1	---	---	56.5	---
	S D	.07	---	.04	.004	---		---	.3	.14	.07	.21	.4	---	---	2.1	---
	Rng	6.1-6.2	---	.22-.28	.03-.05	8		---	4.7-5.1	1-1.2	.1-.2	.4-.7	4.8-5.4	---	---	55-58	---
	N	2	---	2	2	2	1	---	2	2	2	2	2	---	---	2	---
B21	Ave	6.1	---	.13	---	---	1.5	---	7.4	1.9	.2	.65	5.7	---	---	64	---
	S D	.21	---	.06	---	---		---	1.4	.5	---	.2	.85	---	---	1.4	---
	Rng	5.9-6.2	---	.09-.17	---	---		---	6.4-8.4	1.5-2.2	.2	.5-.8	5.1-6.3	---	---	63-65	---
	N	2	---	2	---	---	1	---	2	2	2	2	2	---	---	2	---
B31	Ave	5.85	---	.09	---	---	1.6	---	11.75	3.05	.2	.55	6.2	---	---	72	---
	S D	.07	---	.02	---	---		---	.35	.8	---	.07	.6	---	---	1.4	---
	Rng	5.8-5.9	---	.07-.1	---	---		---	11.5-12	2.5-3.6	.2	.5-.6	5.7-6.6	---	---	71-73	---
	N	2	---	2	---	---	1	---	2	2	2	2	2	---	---	2	---
B32	Ave	5.9	---	.065	---	---	1.3	---	11.6	3.6	.25	.5	5.2	---	---	75.5	---
	S D	.14	---	.007	---	---		---	.8	.6	.07	---	.9	---	---	2.1	---
	Rng	5.8-6	---	.06-.07	---	---		---	11-12.1	3.2-4	.2-.3	.5	4.5-5.8	---	---	74-77	---
	N	2	---	2	---	---	1	---	2	2	2	2	2	---	---	2	---
C	Ave	5.95	---	.05	---	---	1.2	---	10.4	3.3	.3	.43	4	---	---	78.8	---
	S D	.07	---	.01	---	---		---	.2	.9	---	.11	---	---	---	1.1	---
	Rng	5.9-6	---	.04-.06	---	---		---	10-11	2.7-3.9	.3	.35-.5	4	---	---	78-80	---
	N	2	---	2	---	---	1	---	2	2	2	2	2	---	---	2	---
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Hoopal

TAXONOMIC NAME: Typic Duraquoll

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
A1	Ave	7.6	29.5	54.5	15.5	---	---	14.2	---
	S D	---	4.9	4.9	.5	---	---	.1	---
	Rng	7.6	26-33	51-58	15-16	---	---	14.1-14.3	---
	N	2	2	2	2	---	---	2	---
AC	Ave	14.1	33.5	52.5	14.0	---	32.0	12.5	1.2
	S D	1.6	12.0	10.6	1.0	---	1.0	.5	.1
	Rng	13-15	25-42	45-60	13-15	---	31-33	12-13	1.1-1.3
	N	2	2	2	2	---	2	2	2
C1	Ave	12.6	36.0	51.5	13.0	---	32.5	11.5	1.25
	S D	3.7	12.7	12.0	1.0	---	.5	.5	.05
	Rng	10-15	27-45	43-60	12-14	---	32-33	11-12	1.2-1.3
	N	2	2	2	2	---	2	2	2
C2	Ave	17.5	37.5	58.0	4.5	---	43.3	13.5	1.1
	S D	10.6	12.0	15.5	4.0	---		2.1	
	Rng	10-25	29-46	47-69	1.7-7.4	---		12-15	
	N	2	2	2	2	---	1	2	1
C3	Ave	29.0	25.5	69.0	5.4	---	46.5	8.8	1.05
	S D	12.7	4.9	8.5	3.8	---	9.2	7.3	.07
	Rng	20-38	22-29	63-75	2.7-8.1	---	40-53	3.7-14.0	1.0-1.1
	N	2	2	2	2	---	2	2	2
C4	Ave	11.3	36.5	56.5	7.05	---	---	12.0	---
	S D	1.9	12.0	9.2	2.9	---	---	5.7	---
	Rng	10-13	28-45	50-63	5.0-9.1	---	---	8-16	---
	N	2	2	2	2	---	---	2	---
C5	Ave	29.0	62.5	31.5	6.1	---	---	9.6	---
	S D	12.7	10.6	9.2	1.6	---	---	3.3	---
	Rng	20-38	55-70	25-38	5.0-7.3	---	---	7.3-12.0	---
	N	2	2	2	2	---	---	2	---
C6	Ave	10.2	29.1	68.6	2.3	---	---	3.6	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Hoopal

TAXONOMIC NAME: Typic Duraquoll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	----%----------			%	(ppm)	----------	----------	----Meq/100g----	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
A1	Ave	8.75	---	1.65	.15	11.0	.35	---	---	2.6	10.0	10.5	---	27.1	---	---	---
	S D	.07	---	.05	.01	1.0	.07	---	---	.6	1.0	3.5	---	.1	---	---	---
	Rng	8.7-8.8	---	1.6-1.7	.14-.16	10-12	.3-.4	---	---	2.2-3.0	9-11	8-13	---	27-27.2	---	---	---
	N	2	---	2	2	2	2	---	---	2	2	2	---	2	---	---	---
AC	Ave	9.65	---	.6	.07	9.5	.4	---	---	1.0	20.5	7.0	---	25.5	---	---	---
	S D	.07	---	.1	.01	.5	---	---	---	.2	2.1	.5	---	2.1	---	---	---
	Rng	9.6-9.7	---	.5-.7	.06-.08	9-10	.4	---	---	.8-1.2	19-22	6.7-7.4	---	24-27	---	---	---
	N	2	---	2	2	2	2	---	---	2	2	2	---	2	---	---	---
C1	Ave	10.15	---	.5	.05	10.0	.35	---	---	1.35	21.5	3.7	---	23.5	---	---	---
	S D	.07	---	.06	.01	---	.07	---	---	.35	3.5	.7	---	2.1	---	---	---
	Rng	10.1-10.2	---	.5-.6	.04-.06	10.0	.3-.4	---	---	1.1-1.6	19-24	3.2-4.2	---	22-25	---	---	---
	N	2	---	2	2	2	2	---	---	2	2	2	---	2	---	---	---
C2	Ave	10.15	---	.8	.06	13.5	.2	---	---	3.6	22.0	1.45	---	19.5	---	---	---
	S D	.07	---	.1	.01	2.1	---	---	---	1.1	1.4	.9	---	.7	---	---	---
	Rng	10.1-10.2	---	.7-.9	.05-.07	12-15	.2	---	---	2.8-4.4	21-23	.8-2.1	---	19-20	---	---	---
	N	2	---	2	2	2	2	---	---	2	2	2	---	2	---	---	---
C3	Ave	9.95	---	.5	.05	13.0	.15	---	---	5.2	10.6	.5	---	11.2	---	---	---
	S D	.07	---	.3	/	/	.07	---	---	1.4	7.7	.6	---	6.7	---	---	---
	Rng	9.9-10.0	---	.3-.7	/	/	.1-.2	---	---	4.2-6.2	5-16	.1-.9	---	6-16	---	---	---
	N	2	---	2	1	1	2	---	---	2	2	2	---	2	---	---	---
C4	Ave	9.45	---	.3	---	---	.45	---	---	12.0	6.9	.35	---	17.7	---	---	---
	S D	.3	---	.04	---	---	.35	---	---	9.9	2.5	.2	---	10.8	---	---	---
	Rng	9.2-9.6	---	.2-.3	---	---	.2-.7	---	---	5-19	5.2-8.7	.2-.5	---	10-25	---	---	---
	N	2	---	2	---	---	2	---	---	2	2	2	---	2	---	---	---
C5	Ave	9.0	---	.15	---	---	.5	---	---	10.5	3.4	.4	---	16.5	---	---	---
	S D	.1	---	.08	---	---	.3	---	---	7.7	1.4	.3	---	9.2	---	---	---
	Rng	8.9-9.1	---	.09-.21	---	---	.3-.7	---	---	5-16	2.4-4.4	.2-.6	---	10-23	---	---	---
	N	2	---	2	---	---	2	---	---	2	2	2	---	2	---	---	---
C6	Ave	9.8	---	.05	---	---	.1	---	---	1.0	1.6	.3	---	2.9	---	---	---
	S D	/	---	/	---	---	/	---	---	/	/	/	---	/	---	---	---
	Rng	/	---	/	---	---	/	---	---	/	/	/	---	/	---	---	---
	N	1	---	1	---	---	1	---	---	1	1	1	---	1	---	---	---
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Horeb

TAXONOMIC NAME: Typic Haplumbrept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density			
		(cm)	----------	%	----------	----------	% H_2O	----------	(g/cc)			
	Ave	----------	----------	----------	NO AVAILABLE DATA	----------	----------	----------	----------			
	S D											
	Rng											
	N											
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SOIL SERIES: Horeb

TAXONOMIC NAME: Typic Haplumbrept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---	----------		%	(ppm)	----------	----------	--Meq/100g-	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
A11	Ave	5.6	26.51	15.37	NO AVAILABLE DATA			8.0	9.8	3.7	.15	1.25	---	57.93	25.7	---	---
	S D	/	/	/				/	/	/	/	/	---	/	/	---	---
	Rng	/	/	/				/	/	/	/	/	---	/	/	---	---
	N	1	1	1				1	1	1	1	1	---	1	1	---	---
A12	Ave	5.6	12.33	7.15	NO AVAILABLE DATA			4.0	2.3	.9	.31	.61	---	32.86	12.0	---	---
	S D	/	/	/				/	/	/	/	/	---	/	/	---	---
	Rng	/	/	/				/	/	/	/	/	---	/	/	---	---
	N	1	1	1				1	1	1	1	1	---	1	1	---	---
A13	Ave	5.7	5.52	3.2	NO AVAILABLE DATA			3.0	2.5	.6	.14	.33	---	31.70	11.3	---	---
	S D	/	/	/				/	/	/	/	/	---	/	/	---	---
	Rng	/	/	/				/	/	/	/	/	---	/	/	---	---
	N	1	1	1				1	1	1	1	1	---	1	1	---	---
B1	Ave	5.9	4.60	2.67	NO AVAILABLE DATA			3.0	2.3	.8	.15	.30	---	26.23	13.5	---	---
	S D	/	/	/				/	/	/	/	/	---	/	/	---	---
	Rng	/	/	/				/	/	/	/	/	---	/	/	---	---
	N	1	1	1				1	1	1	1	1	---	1	1	---	---
B2	Ave	5.6	3.03	1.76	NO AVAILABLE DATA			3.0	2.1	.9	.15	.35	---	24.63	14.2	---	---
	S D	/	/	/				/	/	/	/	/	---	/	/	---	---
	Rng	/	/	/				/	/	/	/	/	---	/	/	---	---
	N	1	1	1				1	1	1	1	1	---	1	1	---	---
B3	Ave	5.8	.60	.35	NO AVAILABLE DATA			4.0	1.4	1.2	.20	.40	---	22.73	14.1	---	---
	S D	/	/	/				/	/	/	/	/	---	/	/	---	---
	Rng	/	/	/				/	/	/	/	/	---	/	/	---	---
	N	1	1	1				1	1	1	1	1	---	1	1	---	---
	Ave																
	S D																
	Rng																
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	Ave																
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	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Hot Lake

TAXONOMIC NAME: Aquic Haploxeroll

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	---------%---------			---------% H_2O---------			(g/cc)
Ap	Ave	26.7	23.3	51.65	25.0	---	46.65	22.8	1.01
	S D	12.6	3.2	7.6	4.4	---	2.1	2.5	.01
	Rng	21-26	21-26	46-57	22-28	---	45-48	21-25	1-1.02
	N	2	2	2	2	---	2	2	2
C1ca	Ave	16.5	37.25	51.5	11.3	---	41.5	17.8	1.06
	S D	5.4	24.0	25.6	1.6	---	.6	2.3	.014
	Rng	13-20	20-54	33-70	10-12	---	41-42	16-19	1.05-1.1
	N	2	2	2	2	---	2	2	2
C2	Ave	24.1	50.85	44.15	5.05	---	45.4	10.5	1.01
	S D	5.4	16.2	16.8	.6	---	2.3	.6	.05
	Rng	20-28	39-62	32-56	4.6-5.5	---	44-47	10-11	.97-1.04
	N	2	2	2	2	---	2	2	2
C4	Ave	39.35	32.7	62.25	5.15	---	---	4.85	---
	S D	19.7	6.8	5.2	1.6	---	---	.07	---
	Rng	25-53	28-38	59-66	4-6	---	---	4.8-4.9	---
	N	2	2	2	2	---	---	2	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
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	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Hot Lake TAXONOMIC NAME: Aquic Haploxeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
	.	(1:1 H_2O)	---------	---%---	-------		%	(ppm)	-------	-------	--Meq/100g--	-------	-------	-------	(NH_4OAc)	(Σ Cat)	
Ap	Ave	7.9	---	2.8	.25	11.1	---	---	---	13.3	2.08	.4	1.3	35.8	---	---	---
	S D	.3	---	1.2	.09	.6	---	---	---	2.7	1.6	.3	1.2	2.4	---	---	---
	Rng	7.7-8.1	---	2-3.6	.19-.32	10-12	---	---	---	11-15	1-3.2	.6-.2	.5-2	34-38	---	---	---
	N	2	---	2	2	2	---	---	---	2	2	2	2	2	---	---	---
C1ca	Ave	8.25	---	.6	.065	8.6	---	---	---	11.55	1.8	.2	---	25.5	---	---	---
	S D	.07	---	.07	.004	.6	---	---	---	4.7	.3	---	---	1.7	---	---	---
	Rng	8.2-8.3	---	.51-.61	.01-.07	8-9	---	---	---	8-15	1.6-2	.2	---	24-27	---	---	---
	N	2	---	2	2	2	---	---	---	2	2	2	---	2	---	---	---
C2	Ave	8.25	---	.3	.03	9.05	---	---	---	6.85	1.2	.1	.6	16.5	---	---	---
	S D	.2	---	.064	.004	.9	---	---	---	1.6	.7	---	.1	1.6	---	---	---
	Rng	8.1-8.4	---	.21-.3	.02-.03	8-10	---	---	---	5.7-8	.7-1.7	.1	.5-.7	15-18	---	---	---
	N	2	---	2	2	2	---	---	---	2	2	2	2	2	---	---	---
C4	Ave	8.4	---	.08	---	---	---	---	5.5	3.2	1.1	.1	.55	8.15	100	94.7	1.75
	S D	.5	---	.05	---	---	---	---	1.2	.4	1.0	.04	/	.1	/	/	.6
	Rng	8.1-8.8	---	.12-.45	---	---	---	---	4.6-6.4	2.9-3.5	.4-1.8	.1-.15		8.1-8.3			1.3-2.2
	N	2	---	2	---	---	---	---	2	2	2	2	1	2	2	1	2
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
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SOIL SERIES: Hullt

TAXONOMIC NAME: Typic Xerumbrept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density			
		(cm)		%			% H_2O		(g/cc)			
A1	Ave	0-13	NO AVAILABLE DATA									
	S D											
	Rng											
	N	1										
B1	Ave	13-25	NO AVAILABLE DATA									
	S D											
	Rng											
	N	1										
B21	Ave	25-36	NO AVAILABLE DATA									
	S D											
	Rng											
	N	1										
IIB22	Ave	36-64	NO AVAILABLE DATA									
	S D											
	Rng											
	N	1										
IIB3	Ave	64-86	NO AVAILABLE DATA									
	S D											
	Rng											
	N	1										
IIC	Ave	86-137	NO AVAILABLE DATA									
	S D											
	Rng											
	N	1										
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
	Rng											
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	Ave											
	S D											
	Rng											
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SOIL SERIES: Hullt

TAXONOMIC NAME: Typic Xerumbrept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	-------	---%---	-------		%	(ppm)	-------	-------	--Meq/100g--	-------	-------	-------	(NH_4OAc)	(Σ Cat)	
A1	Ave	5.9	-------	-------	NO AVAILABLE DATA		-------	-------	9.4	5.4	.2	1.5	---	32.7	50.5	---	1.7
	S D	/							/	/	/	/	---	/	/	---	/
	Rng	/							/	/	/	/	---	/	/	---	/
	N	1							1	1	1	1	---	1	1	---	1
B1	Ave	5.9	-------	-------	NO AVAILABLE DATA		-------	-------	8.3	5.4	.2	.8	---	30.6	48.0	---	1.5
	S D	/							/	/	/	/	---	/	/	---	/
	Rng	/							/	/	/	/	---	/	/	---	/
	N	1							1	1	1	1	---	1	1	---	1
B21	Ave	5.8	-------	-------	NO AVAILABLE DATA		-------	-------	6.8	6.2	.2	.7	---	27.9	49.8	---	1.1
	S D	/							/	/	/	/	---	/	/	---	/
	Rng	/							/	/	/	/	---	/	/	---	/
	N	1							1	1	1	1	---	1	1	---	1
IIB22	Ave	5.6	-------	-------	NO AVAILABLE DATA		-------	-------	5.8	7.8	.3	.7	---	29.2	50.5	---	.7
	S D	/							/	/	/	/	---	/	/	---	/
	Rng	/							/	/	/	/	---	/	/	---	/
	N	1							1	1	1	1	---	1	1	---	1
IIB3	Ave	5.4	-------	-------	NO AVAILABLE DATA		-------	-------	4.8	10.0	.7	.4	---	34.7	45.8	---	.5
	S D	/							/	/	/	/	---	/	/	---	/
	Rng	/							/	/	/	/	---	/	/	---	/
	N	1							1	1	1	1	---	1	1	---	1
IIC	Ave	---	-------	-------	NO AVAILABLE DATA		-------	-------	---	---	---	---	---	---	---	---	---
	S D	---							---	---	---	---	---	---	---	---	---
	Rng	---							---	---	---	---	---	---	---	---	---
	N	---							---	---	---	---	---	---	---	---	---
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Hurwal

TAXONOMIC NAME: Pachic Argixeroll

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------%----------			----------% H_2O----------			(g/cc)
Ap	Ave	24.8	15.65	61.45	23.1	---	40.3	15.5	1.1
	S D	4.3	4.8	4.1	2.1	---	8.3	.6	.1
	Rng	20-31	13-23	56-66	21-25	---	34-46	15-16	1.1-1.2
	N	4	4	4	4	---	2	3	2
A3	Ave	26.2	13.7	63.2	23.1	---	40.7	14.4	1.09
	S D	6.4	.8	4.9	5.2	---		.4	
	Rng	20-33	13-14	60-69	17-27	---		14-14.7	
	N	3	3	3	3	---	1	3	1
B1	Ave	22	11.2	59.7	29.1	---	25.9	14.9	1.4
	S D	8.9	1.6	3.0	1.6	---	2.1	.6	.04
	Rng	13-31	9.4-12	57-63	28-31	---	24-27	14-16	1.4-1.43
	N	3	3	3	3	---	2	3	2
B2	Ave	54.6	14.1	57.2	28.7	---	24.8	16.1	1.60
	S D	19.3	5.8	1.2	5.1	---		.5	
	Rng	36-74	8.4-22	56-59	22-34	---		16-17	
	N	4	4	4	4	---	1	3	1
B3	Ave	33	15.2	60.2	24.6	---	29.25	15	1.4
	S D	26.7	6.1	4.8	10.2	---	.2	4.0	.1
	Rng	5.1-58	8.7-21	57-66	14-34	---	29-29.4	10.5-18	1.3-1.5
	N	3	3	3	3	---	2	3	2
C	Ave	58.35	20.8	57.7	21.5	---	---	15.3	---
	S D	17.9	1.8	11.0	12.9	---	---		---
	Rng	45.7-71	19.5-22.1	49.9-65.5	12.4-30.6	---	---		---
	N	2	2	2	2	---	---	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Hurwal TAXONOMIC NAME: Pachic Argixeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---	----------		%	(ppm)	----------	----------	--Meq/100g--	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
Ap	Ave	6.4	---	3.5	.2	14.25	1.3	---	22.3	5.0	.2	1.6	7.9	33.8	86.6	78.75	4.5
	S D	.1	---	.7	.04	.3	.1	---	1.0	.3	---	.6	.6	2.2	9.2	1.1	.3
	Rng	6.3-6.6	---	2.9-4.4	.2-.31	14-15	1.2-1.4	---	21-23.2	5-5.4	.2	1.1-2.2	7.3-8.5	31-35.4	80-97	78-80	4.2-4.8
	N	4	---	4	4	4	2	---	3	3	3	3	3	3	3	3	3
A3	Ave	6.65	---	1.7	.1	12.6	1.35	---	19.6	5.4	.2	1.0	5.3	31.2	84.1	83.1	3.6
	S D	.09	---	.25	.02	1.7	.07	---	1.9	.5	.06	.3	.7	1.6	4.5	2.6	.45
	Rng	6.6-6.8	---	1.5-2	.12-.16	11-14	1.3-1.4	---	18.4-22	5-5.9	.2-.3	.8-1.35	4.6-6	29-32.1	79-88	81-86	3.1-4
	N	3	---	3	3	3	2	---	3	3	3	3	3	3	3	3	3
B1	Ave	6.8	---	.8	.08	10.0	1.7	---	17.7	7.0	.5	.7	4.2	30.4	85.15	86	2.5
	S D	.1	---	.07	.008	.7	---	---	1.4	.6	.35	.2	.7	1.8	3.7	2.6	---
	Rng	6.7-6.9	---	.8-.9	.08-.09	9-11	1.7	---	16.5-19	6.6-7.7	.3-.9	.5-.9	3.7-5	28.5-32	81-88	83-88	2.5
	N	3	---	3	3	3	2	---	3	3	3	3	3	3	3	3	3
B2	Ave	7.1	---	.6	.07	7.95	1.7	---	18.3	7.4	1.4	.4	3.8	32.0	86	87.8	2.5
	S D	.4	---	.2	.02	1.5	.1	---	.5	.2	1.4	.2	.7	.09	2.9	2.3	.1
	Rng	6.6-7.5	---	.37-.89	.05-.09	8-9.8	1.6-1.8	---	18-18.6	7.2-7.6	.4-3	.3-.6	3-4.25	31.8-32	84.5-89	86-90	2.3-2.6
	N	4	---	4	4	4	2	---	3	3	3	3	3	3	3	3	3
B3	Ave	7.7	---	.2	---	---	1.8	---	22.3	7.3	2.3	.2	2.9	31.0	93.3	90.5	3.1
	S D	1.0	---	.1	---	---		---	5.4	2.1	2.5	.2	2.0	3.4	7.1	5.7	.6
	Rng	6.6-8.5	---	.12-.33	---	---		---	19-28.5	5.1-7.3	.4-5.1	.1-.4	1.5-4.3	27-34	86-100	86-94	2.6-3.7
	N	3	---	3	---	---	1	---	3	3	3	3	2	3	3	2	3
C	Ave	8.2	---	.3	.05	8.5	1.6	---	21.3	9.5	6.6	.2	---	31.6	100	---	2.2
	S D	.4	---	.3				---					---			---	
	Rng	7.9-8.5	---	.08-.44				---					---			---	
	N	2	---	2	1	1	1	---	1	1	1	1	---	1	1	---	1
	Ave																
	S D																
	Rng																
	N																
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	S D																
	Rng																
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SOIL SERIES: Imbler

TAXONOMIC NAME: Pachic Haploxeroll

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)		%			% H_2O		(g/cc)
1	Ave	0-20.3	71.3	18.9	9.8	---	---	6.2	---
	S D	/	/	/	/	---	---	/	---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
2	Ave	51-76	65.3	25.8	9.0	---	---	6.4	---
	S D	/	/	/	/	---	---	/	---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
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	N								

SOIL SERIES: Imbler

TAXONOMIC NAME: Pachic Haploxeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)		%			%	(ppm)			Meq/100g				(NH_4OAc)	(Σ Cat)	
	Ave																
	S D								NO AVAILABLE DATA								
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
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SOIL SERIES: Izee

TAXONOMIC NAME: Pachic Haploxeroll

Horizon	Stat.	Horizon Thickness (cm)	Sand (%)	Silt (%)	Clay (%)	.10 Atm. (% H_2O)	.33 Atm. (% H_2O)	15 Atm. (% H_2O)	Bulk Density (g/cc)	Boron (ppm)
A11	Ave	0-10.2	32.41	43.33	24.26	---	---	8.46	---	.54
	S D					---	---		---	
	Rng					---	---		---	
	N	1	1	1	1	---	---	1	---	1
A12	Ave	10-31	27.73	41.71	30.56	---	---	11.19	---	.46
	S D					---	---		---	
	Rng					---	---		---	
	N	1	1	1	1	---	---	1	---	1
B21	Ave	31-51	28.08	40.62	31.30	---	---	10.48	---	---
	S D					---	---		---	---
	Rng					---	---		---	---
	N	1	1	1	1	---	---	1	---	---
B22	Ave	51-71	32.89	37.31	29.80	---	---	11.44	---	---
	S D					---	---		---	---
	Rng					---	---		---	---
	N	1	1	1	1	---	---	1	---	---
	Ave									
	S D									
	Rng									
	N									
	Ave									
	S D									
	Rng									
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	Ave									
	S D									
	Rng									
	N									
	Ave									
	S D									
	Rng									
	N									
	Ave									
	S D									
	Rng									
	N									

SOIL SERIES: Izee

TAXONOMIC NAME: Pachic Haploxeroll

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	-----------	---%---	-----------		%	(ppm)	-----------	-----------	--Meq/100g--	-----------	-----------	-----------	(NH_4OAc)	(Σ Cat)	
A11	Ave	7.5	3.13	1.83	.13	14.08	---	11.8	15.8	3.1	.3	1.0	2.8	17.5	100.0	87.8	5.0
	S D						---										
	Rng						---										
	N	1	1	1	1	1	---	1	1	1	1	1	1	1	1	1	1
A12	Ave	7.5	2.65	1.50	.12	12.50	---	4.4	15.0	3.4	.3	1.0	2.6	19.8	100.0	88.5	4.5
	S D						---										
	Rng						---										
	N	1	1	1	1	1	---	1	1	1	1	1	1	1	1	1	1
B21	Ave	7.5	1.97	1.14	---	---	---	5.9	14.4	3.9	.3	.6	2.5	20.9	91.9	88.5	3.6
	S D				---	---	---										
	Rng				---	---	---										
	N	1	1	1	---	---	---	1	1	1	1	1	1	1	1	1	1
B22	Ave	7.5	1.63	.94	---	---	---	5.2	15.8	4.4	1.0	.6	2.3	21.7	100.0	90.4	3.5
	S D				---	---	---										
	Rng				---	---	---										
	N	1	1	1	---	---	---	1	1	1	1	1	1	1	1	1	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
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SOIL SERIES: Jimbo

TAXONOMIC NAME: Andic Haplumbrept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	---%---	----------	----------	---% H_2O---	----------	(g/cc)
A1	Ave	0-20	34.16	50.18	15.66	---	---	21.25	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
A3	Ave	20-36	36.16	51.58	12.66	---	---	19.03	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
B2	Ave	36-79	42.31	44.94	12.75	---	---	17.77	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
C	Ave	79-109	40.37	46.10	13.53	---	---	18.84	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
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	Ave								
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	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Jimbo TAXONOMIC NAME: Andic Haplumbrept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------	---%---	----------		%	(ppm)	----------	----------	--Meq/100g--	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
A1	Ave	5.6	11.2	6.50	---	---	---	---	6.8	1.6	.2	.7	---	34.4	27.0	---	4.3
	S D	/	/	/	---	---	---	---	/	/	/	/	---	/	/	---	/
	Rng				---	---	---	---					---			---	
	N	1	1	1	---	---	---	---	1	1	1	1	---	1	1	---	1
A3	Ave	5.7	2.5	1.45	---	---	---	---	3.8	1.2	.1	.5	---	22.6	24.8	---	3.2
	S D	/	/	/	---	---	---	---	/	/	/	/	---	/	/	---	/
	Rng				---	---	---	---					---			---	
	N	1	1	1	---	---	---	---	1	1	1	1	---	1	1	---	1
B2	Ave	5.5	2.0	1.16	---	---	---	---	3.5	1.1	.1	.5	---	23.3	22.4	---	3.2
	S D	/	/	/	---	---	---	---	/	/	/	/	---	/	/	---	/
	Rng				---	---	---	---					---			---	
	N	1	1	1	---	---	---	---	1	1	1	1	---	1	1	---	1
C	Ave	5.4	.6	.35	---	---	---	---	9.0	4.5	.4	.6	---	22.5	64.4	---	2.0
	S D	/	/	/	---	---	---	---	/	/	/	/	---	/	/	---	/
	Rng				---	---	---	---					---			---	
	N	1	1	1	---	---	---	---	1	1	1	1	---	1	1	---	1
	Ave																
	S D																
	Rng																
	N																
	Ave																
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SOIL SERIES: Jory TAXONOMIC NAME: Xeric Haplohumult

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	-%-	----------	----------	-% H_2O-	----------	(g/cc)
Ap	Ave	14.2	14.3	43.5	42.2	45.0	39.75	20.15	---
	S D	2.6	5.9	8.6	13.4	.1	3.2	4.7	---
	Rng	8-15	4-27	32-59	14-63	44-46	37-42	17-23	---
	N	13	11	11	11	2	2	2	---
A3	Ave	17.2	17.7	51.2	31.1	38.95	35.6	17.4	---
	S D	2.4	9.1	6.5	14.3	3.7	1.8	5.4	---
	Rng	15-20	12-28	44-56	16-44	36-42	34-37	12-23	---
	N	4	3	3	3	2	2	3	---
B1	Ave	30.2	13.2	37.6	44.3	36.5	33.6	20.25	---
	S D	15.4	7.4	7.4	15.7	4.4	2.7	4.2	---
	Rng	13-66	4-31	27-48	17-69	33-40	32-36	17-23	---
	N	12	10	10	10	2	2	2	---
B2	Ave	53.3	11.9	33.8	54.3	34.4	32.3	20.8	---
	S D	26.3	6.3	6.7	12.1	2.7	1.8	2.9	---
	Rng	18-122	4-26	24-39	27-71	32-36	31-34	18-24	---
	N	12	11	11	11	2	2	3	---
B3	Ave	24.4	13.2	34.5	52.4	37.4	34.8	23.8	---
	S D	10.6	12.9	11.6	20.4	6.1	4.5	4.5	---
	Rng	13-38	2-35	15-45	26-83	33-42	32-38	19-27	---
	N	5	5	5	5	2	2	3	---
C	Ave	24.1	47.9	25.75	26.3	42.6	39.9	28.4	---
	S D	5.4	12.9	1.9	14.8				---
	Rng	20-28	39-57	24-27	16-37				---
	N	2	2	2	2	1	1	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Jory

TAXONOMIC NAME: Xeric Haplohumult

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----	%----	----		%	(ppm)	----	----	Meq/100g	----	----	----	(NH_4OAc)	(Σ Cat)	
Ap	Ave	5.7	4.1	6.4	.3	21.1	8.65	33.0	8.0	2.6	.4	1.3	24.1	29.2	43.9	30.4	3.6
	S D	.4		1.9	.06	4.5	2.9	43.9	4.5	1.8	.5	1.3	6.0	9.6	19.4	11.2	2.2
	Rng	4.8-6.4		4.8-7.4	.2-.3	16-25	7-11	2-64	2-15	.9-4.8	.1-1.3	.3-5.3	17-29	14-49	24-84	23-43	1.7-9.1
	N	12	1	4	3	3	2	2	14	14	4	14	3	13	13	3	14
A3	Ave	5.7	1.5	3.4	.16	16.4	9.25	32.4	8.35	3.3	.4	1.1	19.2	34.3	47.9	36.2	2.7
	S D	.2		1.5	.09	2.1	3.2		3.6	1.9	.5	.7	8.5	15.1	19.3	3.3	.9
	Rng	5.5-6.0		1.7-4.5	.1-.3	14-18	7-12		2-12	1.2-6.3	.1-1.2	.4-2.3	11-28	13-55	33-79	33-39	1.8-4.1
	N	5	1	5	3	3	2	1	6	6	4	6	3	5	5	3	6
B1	Ave	5.6	1.1	2.7	.13	15.75	9.3	1.3	6.6	2.6	.3	.4	20.7	25.4	40.3	34.7	3.1
	S D	.3		1.3	.10	4.2	3.1		3.3	1.7	.4	.3	8.0	7.5	19.7	4.6	2.0
	Rng	5.3-6.1		.8-3.7	.06-.2	13-19	7-12		3-12	.35-6.6	.1-.9	.05-1.2	12-27	17-43	17-91	30-39	1.8-9.4
	N	13	1	4	2	2	2	1	13	13	4	13	3	12	12	3	13
B2	Ave	5.5	.4	.7	.07	9.5	10.0	19.1	5.0	2.8	.4	.3	16.5	20.5	41.2	37.4	1.8
	S D	.4		.6	.04	5.8	4.0		2.4	1.2	.5	.2	5.1	2.9	15.6	9.8	.5
	Rng	4.8-6.0		.3-1.3	.03-.1	4-15	7-13		2-10	1.0-4.6	.1-1.2	.05-.53	12-22	17-26	16-62	31-49	1.5-2.6
	N	12	1	3	3	3	2	1	12	12	4	12	3	11	11	3	12
B3	Ave	5.4	.2	.6	.06	10.2	11.45	14.4	5.3	3.0	.8	.3	21.7	32.6	37.3	30.8	1.7
	S D	.5		.2	.04	2.6	4.6		3.2	1.6	1.1	.1	9.8	8.6	8.1	7.4	.4
	Rng	4.8-6.1		.3-.8	.03-.10	8-13	8-15		1.3-9.9	.7-4.6	.1-2.4	.1-.5	12-32	24-45	22-45	28-39	1.1-1.9
	N	7	1	4	3	3	2	1	7	7	4	5	3	4	4	3	5
C	Ave	4.7	---	.4	.02	16.5	10.9	---	7.25	4.35	.35	.3	26.4	30.7	39.8	32.3	1.65
	S D	.3	---	.1	.003	6.3	4.4	---	1.5	.2	.07	.3	7.4	.4	7.1	9.8	.2
	Rng	4.5-4.9	---	.3-.4	.02-.03	12-21	8-14	---	6.2-8.3	4.2-4.5	.3-.4	.1-.5	21-32	30-31	35-45	25-39	1.5-1.8
	N	2	---	2	2	2	2	---	2	2	2	2	2	2	2	2	2
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Kanutchan TAXONOMIC NAME: Typic Pelloxerert

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	---%				---% H_2O---		(g/cc)
Ap	Ave	10.2	10.9	24.8	64.3	---	---	29.0	---
	S D	---	1.1	.3	.8	---	---	.9	---
	Rng	10.2	10-12	24.6-25.0	64-65	---	---	28-30	---
	N	2	2	2	2	---	---	2	---
A1	Ave	66.9	15.3	26.5	58.2	43.75	43.0	28.4	1.7
	S D	14.0	7.5	4.6	12.1		3.4	2.8	
	Rng	51-76	9.9-24	22-31	45-68		41-45	26-32	
	N	3	3	3	3	1	2	3	1
AC	Ave	42.3	18.5	29.6	51.6	---	---	28.3	---
	S D	20.7	4.4	5.0	8.8	---	---	3.0	---
	Rng	28-66	14-23	24-34	44-61	---	---	25-31	---
	N	3	3	3	3	---	---	3	---
C	Ave	45.7	18.1	29.0	52.8	---	---	27.3	---
	S D	21.6	6.2	3.8	10.3	---	---	5.8	---
	Rng	31-61	14-23	26-32	46-60	---	---	23-31	---
	N	2	2	2	2	---	---	2	---
IIR	Ave	144.8+	59.6	25.8	14.6	---	---	16.7	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Kanutchan TAXONOMIC NAME: Typic Pelloxerert

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	---------	---%---	---------		%	(ppm)	---------	---------	--Meq/100g--	---------	---------	---------	(NH_4OAc)	(Σ Cat)	
Ap	Ave	6.6	4.1	2.4	.14	17.7	---	14.5	27.5	19.5	.38	1.15	---	53.8	85.7	---	1.38
	S D	.4	.8	.4	.02	5.3	---		12.7	2.8	.27	.27	---	1.8	20.2	---	.45
	Rng	6.3-6.9	3.6-4.7	2.1-2.7	.13-.15	14-21	---		19-37	18-22	.19-.57	.96-1.3	---	52-55	71-100	---	1.0-1.7
	N	2	2	2	2	2	---	1	2	2	2	2	---	2	2	---	2
A1	Ave	6.7	3.4	1.1	.05	19.6	---	4.5	31.6	18.2	.61	.46	12.3	54.1	93.7	75.7	1.74
	S D	.6	2.8	.05	.005	.9	---	.7	7.4	4.6	.38	.21		11.5	4.7		.09
	Rng	6.1-7.1	1.8-6.6	1.0-1.1	.05-.06	19-20	---	4.1-5.4	24-38	14-23	.36-1.1	.27-.68		41-63	90-97		1.7-1.8
	N	3	3	2	2	2	---	2	3	3	3	3	1	3	3	1	2
AC	Ave	7.7	1.2	.55	.03	20.1	---	2.75	31.9	20.6	1.59	.43	3.6	51.2	100	91.9	1.56
	S D	.4	.5	.07	.005	1.0	---	1.06	7.4	5.7	1.71	.19		10.1	---		.16
	Rng	7.3-8.0	.8-1.7	.5-.6	.02-.03	19-21	---	2-3.5	24-39	16-27	.58-3.6	.24-.62		41-61	100		1.4-1.8
	N	3	3	2	2	2	---	2	3	3	3	3	1	3	3	1	3
C	Ave	8.15	.65	.35	.02	15.4	---	2.5	34.5	22.8	2.66	.51	---	54.3	100	---	1.57
	S D	.07	.07	.07	.005	---	---		.7	6.0	2.67	.11	---	6.3	---	---	.45
	Rng	8.1-8.2	.6-.7	.3-.4	.02-.03	15.4	---		34-35	19-27	.77-4.5	.43-.58	---	50-59	100	---	1.3-1.9
	N	2	2	2	2	2	---	1	2	2	2	2	---	2	2	---	2
IIR	Ave	8.2	.2	.1	.01	11.1	---	---	35.0	16.8	.95	.24	---	38.7	100	---	2.08
	S D						---	---					---			---	
	Rng						---	---					---			---	
	N	1	1	1	1	1	---	---	1	1	1	1	---	1	1	---	1
	Ave																
	S D																
	Rng																
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	S D																
	Rng																
	N																
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	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Keel

TAXONOMIC NAME: Andic Cryumbrept

Horizon	Stat.	Horizon Thickness (cm)	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density (g/cc)			
			------	%	------	------	% H_2O	------				
A1	Ave	0-25	21.92	55.80	22.29	---	---	25.44	---			
	S D	/	/	/	/	---	---	/	---			
	Rng					---	---		---			
	N	1	1	1	1	---	---	1	---			
B2	Ave	25-48	25.56	50.96	23.48	---	---	21.77	---			
	S D	/	/	/	/	---	---	/	---			
	Rng					---	---		---			
	N	1	1	1	1	---	---	1	---			
B3	Ave	48-61	31.61	46.97	21.42	---	---	20.59	---			
	S D	/	/	/	/	---	---	/	---			
	Rng					---	---		---			
	N	1	1	1	1	---	---	1	---			
	Ave											
	S D											
	Rng											
	N											
	Ave											
	S D											
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	Ave											
	S D											
	Rng											
	N											

SOIL SERIES: Keel TAXONOMIC NAME: Andic Cryumbrept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	----------%	----------	----------		%	(ppm)	----------	----------	----Meq/100g	----------	----------	----------	(NH_4OAc)	(Σ Cat)	
A1	Ave	5.2	12.0	-----NO AVAILABLE DATA--------				13.0	1.15	.32	.35	.46	40.6	36.0	6.23	---	---
	S D	/	/					/	/	/	/	/	/	/	/	---	---
	Rng															---	---
	N	1	1					1	1	1	1	1	1	1	1	---	---
B2	Ave	5.15	2.91	------NO AVAILABLE DATA--------				3.0	.55	.17	.18	.15	35.95	31.95	3.33	---	---
	S D	/	/					/	/	/	/	/	/	/	/	---	---
	Rng															---	---
	N	1	1					1	1	1	1	1	1	1	1	---	---
B3	Ave	4.9	6.17	------NO AVAILABLE DATA--------				3.0	.70	.39	.23	.27	32.8	28.6	5.56	---	---
	S D	/	/					/	/	/	/	/	/	/	/	---	---
	Rng															---	---
	N	1	1					1	1	1	1	1	1	1	1	---	---
	Ave																
	S D																
	Rng																
	N																
	Ave																
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SOIL SERIES: Kerby

TAXONOMIC NAME: Typic Xerochrept

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	%----------		----------	% H_2O----------		(g/cc)
Ap	Ave	10.0	37.4	44.3	18.3	---	27.8	9.9	---
	S D					---			---
	Rng					---			---
	N	1	1	1	1	---	1	1	---
A12	Ave	8.0	35.6	45.1	19.3	---	---	---	---
	S D					---	---	---	---
	Rng					---	---	---	---
	N	1	1	1	1	---	---	---	---
B1	Ave	28.0	36.1	44.9	19.0	---	21.7	8.2	---
	S D					---			---
	Rng					---			---
	N	1	1	1	1	---	1	1	---
B21	Ave	28.0	37.5	42.4	20.1	---	22.4	9.2	---
	S D					---			---
	Rng					---			---
	N	1	1	1	1	---	1	1	---
B22	Ave	30.0	45.5	34.8	19.6	---	22.6	9.6	---
	S D					---			---
	Rng					---			---
	N	1	1	1	1	---	1	1	---
IIC	Ave	30.0	73.8	11.4	14.9	---	13.6	7.5	---
	S D					---			---
	Rng					---			---
	N	1	1	1	1	---	1	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Kerby

TAXONOMIC NAME: Typic Xerochrept

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)		%			%	(ppm)			Meq/100g				(NH_4OAc)	(Σ Cat)	
Ap	Ave	6.1	5.9	NO AVAILABLE DATA				13.0	4.5	1.8	.2	.4	13.0	15.1	45.7	34.0	---
	S D	/	/					/	/	/	/	/	/	/	/	/	---
	Rng																---
	N	1	1					1	1	1	1	1	1	1	1	1	---
A12	Ave	5.7	2.2	NO AVAILABLE DATA				10.0	1.9	.9	.1	.2	12.3	10.6	29.2	20.1	---
	S D	/	/					/	/	/	/	/	/	/	/	/	---
	Rng																---
	N	1	1					1	1	1	1	1	1	1	1	1	---
B1	Ave	5.6	1.8	NO AVAILABLE DATA				7.0	1.5	1.2	.2	.1	10.3	9.2	32.6	22.5	---
	S D	/	/					/	/	/	/	/	/	/	/	/	---
	Rng																---
	N	1	1					1	1	1	1	1	1	1	1	1	---
B21	Ave	5.7	1.0	NO AVAILABLE DATA				1.0	2.7	3.0	.2	.1	8.4	11.4	52.6	41.7	---
	S D	/	/					/	/	/	/	/	/	/	/	/	---
	Rng																---
	N	1	1					1	1	1	1	1	1	1	1	1	---
B22	Ave	5.9	---	NO AVAILABLE DATA				2.0	3.5	4.9	.2	.1	8.3	13.0	66.9	40.1	---
	S D	/	---					/	/	/	/	/	/	/	/	/	---
	Rng		---														---
	N	1	---					1	1	1	1	1	1	1	1	1	---
IIC	Ave	6.1	---	NO AVAILABLE DATA				3.0	2.4	4.5	.2	.1	6.4	10.8	66.7	52.9	---
	S D	/	---					/	/	/	/	/	/	/	/	/	---
	Rng		---														---
	N	1	---					1	1	1	1	1	1	1	1	1	---
	Ave																
	S D																
	Rng																
	N																
	Ave																
	S D																
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	N																
	Ave																
	S D																
	Rng																
	N																

SOIL SERIES: Kiesel

TAXONOMIC NAME: Xerollic Natrargid

Horizon	Stat.	Horizon Thickness	Sand	Silt	Clay	.10 Atm.	.33 Atm.	15 Atm.	Bulk Density
		(cm)	----------	-%-	----------	----------	-% H_2O-	---------	(g/cc)
A1	Ave	0-10	15.64	73.40	10.96	---	---	5.86	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
B21	Ave	10-18	7.53	57.80	34.67	---	---	14.76	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
B22	Ave	18-28	5.14	48.02	46.84	---	---	21.65	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
B23	Ave	28-56	7.60	54.59	37.81	---	---	19.80	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
C	Ave	56-102	23.85	59.77	16.38	---	---	11.19	---
	S D					---	---		---
	Rng					---	---		---
	N	1	1	1	1	---	---	1	---
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								
	Ave								
	S D								
	Rng								
	N								

SOIL SERIES: Kiesel

TAXONOMIC NAME: Xerollic Natrargid

Horizon	Stat.	pH	Organic Matter	Organic Carbon	N	C/N Ratio	Free Fe_2O_3	Avail. P	Ca	Mg	Na	K	H^+	CEC	% Base Sat.	% Base Sat.	Ca/Mg
		(1:1 H_2O)	--------	---%---	--------		%	(ppm)	--------	--------	--Meq/100g--	--------	--------	--------	(NH_4OAc)	(Σ Cat)	
A1	Ave	9.6	.52	----- NO AVAILABLE DATA ------				7.0	13.0	1.5	7.54	2.17	1.1	6.85	---	95.7	---
	S D	/	/					/	/	/	/	/	/	/	---	/	---
	Rng														---		---
	N	1	1					1	1	1	1	1	1	1	---	1	---
B21	Ave	9.9	.26	-------NO AVAILABLE DATA-------				4.0	13.3	1.1	27.0	1.57	.2	10.27	---	100.0	---
	S D	/	/					/	/	/	/	/	/	/	---	/	---
	Rng														---		---
	N	1	1					1	1	1	1	1	1	1	---	1	---
B22	Ave	10.2	.47	-------NO AVAILABLE DATA-------				23.0	31.8	1.6	38.2	1.62	T	17.12	---	100.0	---
	S D	/	/					/	/	/	/	/	/	/	---	/	---
	Rng														---		---
	N	1	1					1	1	1	1	1	1	1	---	1	---
B23	Ave	10.4	---	-------NO AVAILABLE DATA-------				30.0	31.4	1.6	34.1	1.20	T	27.11	---	100.0	---
	S D	/	---					/	/	/	/	/	/	/	---	/	---
	Rng		---												---		---
	N	1	---					1	1	1	1	1	1	1	---	1	---
C	Ave	10.6	---	-------NO AVAILABLE DATA-------				21.0	27.8	1.6	33.5	.62	T	10.27	---	100.0	---
	S D	/	---					/	/	/	/	/	/	/	---	/	---
	Rng		---												---		---
	N	1	---					1	1	1	1	1	1	1	---	1	---
	Ave																
	S D																
	Rng																
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