

Appendix F
Physical and Chemical Data
for Each Soil Site

Selected Physical and Chemical Properties for Site 1.

County - Columbus

Soil series - Norfolk

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	10	1.49	0.167	10	60
Bt ₁	16	1.74	0.082		
Bt ₂	10	1.74	0.111		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	10	1	1	3	69	325	398	559	43
Bt ₁	16	1	3	9	156	397	566	306	128
Bt ₂	10	0	2	12	146	201	361	410	229

Part C. Selected chemical properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	10	5.48	0.55	0.25	0.05	0.00	0.30	1.15	73.9
Bt ₁	16	4.92	0.80	0.33	0.00	0.00	1.70	2.83	39.9
Bt ₂	10	4.75	0.55	0.33	0.03	0.00	4.80	5.71	15.9

Selected Physical and Chemical Properties for Site 2.

County - Columbus

Soil Series - Norfolk

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	18	1.58	0.185	24	60
E	6	1.57	0.149		
Bt	26	1.57	0.078		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	18	2	9	24	266	255	555	380	65
E	6	2	11	29	293	337	672	234	94
Bt	26	2	6	15	208	208	439	366	195

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	18	5.32	0.45	0.17	0.03	0.00	0.3	0.95	68.4
E	6	4.91	0.15	0.17	0.00	0.00	1.15	1.47	21.8
Bt	26	4.47	0.3	0.33	0.03	0.00	2.95	3.61	18.3

Selected Physical and Chemical Properties for Site 3.

County - Columbus

Soil series - Lynchburg

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	3	1.38	0.052	3	24
Bt	21	1.79	0.063		
Btg	24	1.79	0.055		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	3	8	17	33	199	246	503	432	65
Bt	21	1	3	10	108	180	302	448	250
Btg	24	1	2	7	88	170	268	453	279

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	3	5.86	4.65	0.42	0.18	0.00	0.10	5.35	98.1
Bt	21	5.57	3.20	0.75	0.08	0.00	0.10	4.13	97.6
Btg	24	5.39	2.85	1.33	0.10	0.00	0.25	4.53	94.5

Selected Physical and Chemical Properties for Site 7.

County - Columbus

Soil series - Goldsboro

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	5	1.66	0.064	5	26
Bt	21	1.60	0.145		
Btg	16	1.60	0.126		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	5	2	4	8	109	318	440.8	481.3	78
Bt	21	1	1	3	82	320	407	293	300
Btg	16	4	6	9	58	213	290	335	375

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	5	5.36	1.30	0.50	0.13	0.00	0.05	1.98	97.5
Bt	21	5.25	1.15	0.75	0.05	0.00	2.05	4.00	48.8
Btg	16	5.46	0.70	0.75	0.03	0.00	4.35	5.83	25.4

Selected Physical and Chemical Properties for Site 8.

County - Columbus

Soil Series - Norfolk

Part A. Selected Physical Properties.

Horizon	Depth Inches	BD g cm ⁻³	Available Water in in ⁻¹	Depth to Bt horizon in	Depth to Water Table in
Ap	9	1.79	0.161	9	60
Bt ₁	35	1.59	0.045		
Bt ₂	16	1.59	0.050		

Part B. Particle Size Analysis by Hydrometer Method

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
		g kg ⁻¹							
Ap	9	1	4	11	125	385	525.3	396.8	78
Bt ₁	35	0	1	3	58	231	293	532	175
Bt ₂	16	1	2	5	59	196	263	429	308

Part C. Selected Chemical Properties.

Horizon	Depth Inches	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS %
		cmoles kg ⁻¹							
Ap	9	5.01	1.25	0.42	0.08	0.00	0.05	1.80	97.2
Bt ₁	35	4.73	1.15	0.67	0.03	0.00	0.95	2.80	66.1
Bt ₂	16	4.5	0.40	0.50	0.00	0.00	4.55	5.45	16.5

**Selected Physical and Chemical Properties for Site 9.
County - Columbus Soil series - Goldsboro**

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	8	1.44	0.118	8	8
Btg ₁	20	1.71	0.213		
Btg ₂	22	1.70	0.116		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	8	1	4	16	265	178	463.8	511.3	25
Btg ₁	20	1	2	6	86	336	431	469	100
Btg ₂	22	1	2	8	77	243	331	415	254

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	8	5.23	1.25	0.50	0.13	0.00	0.15	2.03	92.6
Btg ₁	20	5.02	1.05	0.50	0.03	0.00	0.95	2.53	62.5
Btg ₂	22	4.82	0.40	0.42	0.00	0.00	4.80	5.62	14.6

Selected Physical and Chemical Properties for Site 10.
County - Columbus Soil series - Lynchburg

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	8	1.61	0.024	16	48
E	8	1.88	0.027		
Btg	32	1.66	0.001		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
				g kg ⁻¹					
Ap	8	6	14	51	308	214	591.5	308.5	100
E	8	2	8	24	197	233	464	408	128
Btg	32	2	9	33	200	210	454	446	100

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	8	5.34	1.15	0.58	0.18	0.00	0.25	2.16	88.4
E	8	4.9	0.40	0.17	0.03	0.00	2.25	2.85	21.1
Btg	32	4.71	0.15	0.08	0.00	0.00	2.80	3.03	7.6

Selected Physical and Chemical Properties for Site 11.

County - Columbus Soil series - Wagram

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	8	1.63	0.055	20	60
E	12	1.50	0.117		
Bt	26	1.50	0.003		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
				g kg ⁻¹					
Ap	8	2	7	88	597	136	830	109	61
E	12	1	6	37	474	117	635	290	75
Bt	26	1	6	37	474	117	635	219	146

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	8	4.84	0.15	0.42	0.03	0.00	0.60	1.20	50.0
E	12	4.95	0.10	0.08	0.03	0.00	0.50	0.71	29.6
Bt	26	5.02	0.35	0.08	0.51	0.00	1.80	2.74	34.3

Selected Physical and Chemical Properties for Site 12.

County - Columbus

Soil series - Wagram

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	8	1.38	0.182	22	60
E	14	1.62	0.080		
Bt	22	1.73	0.101		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
				g kg ⁻¹					
Ap	8	2	9	73	653	93	830	147	24
E	14	1	12	61	557	65	696	279	25
Bt	22	1	12	61	558	65	697	128	175

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	8	5.22	0.15	0.17	0.05	0.00	0.45	0.82	45.1
E	14	4.94	0.05	0.08	0.00	0.00	2.35	2.48	5.2
Bt	22	4.43	0.10	0.08	0.00	0.00	0.45	0.63	28.6

Selected Physical and Chemical Properties for Site 13.

County - Columbus

Soil series - Norfolk

Part A. Selected Physical Properties.

Horizon	Depth Inches	BD g cm ⁻³	Available Water in in ⁻¹	Depth to Bt horizon in	Depth to Water Table in
Ap	8	1.43	0.163	8	60
Bt ₁	26	1.45	0.071		
Bt ₂	26	1.45	0.122		

Part B. Particle Size Analysis by Hydrometer Method

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
		g kg ⁻¹							
Ap	8	2	4	12	254	374	646	326	28
Bt ₁	26	1	3	5	98	289	396	451	153
Bt ₂	26	2	4	9	117	299	431	366	203

Part C. Selected Chemical Properties.

Horizon	Depth Inches	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS %
		cmoles kg ⁻¹							
Ap	8	5.11	0.65	0.33	0.13	0.00	0.30	1.41	78.7
Bt ₁	26	4.63	0.85	0.42	0.00	0.00	1.95	3.22	39.4
Bt ₂	26	4.45	0.55	0.25	0.00	0.00	3.40	4.20	19.0

Selected Physical and Chemical Properties for Site 14.

County - Columbus

Soil series - Rains

Part A. Selected Physical Properties.

Horizon	Depth Inches	BD g cm ⁻³	Available Water in in ⁻¹	Depth to Bt horizon in	Depth to Water Table in
Ap	8	1.66	0.178	20	8
Bg	12	1.73	0.161		
Btg	18	1.76	0.061		

Part B. Particle Size Analysis by Hydrometer Method

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
		g kg ⁻¹							
Ap	8	1	6	21	267	182	478	511	12
Bg	12	2	7	67	245	211	532	419	49
Btg	18	2	7	32	227	222	489	195	316

Part C. Selected Chemical Properties.

Horizon	Depth Inches	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS %
		cmoles kg ⁻¹							
Ap	8	5.36	0.30	0.08	0.10	0.00	0.35	0.83	57.8
Bg	12	5.31	0.25	0.17	0.03	0.00	0.25	0.70	64.3
Btg	18	5.1	2.85	1.08	0.05	0.00	0.30	4.28	93.0

**Selected Physical and Chemical Properties for Site 15.
County - Columbus Soil series - Lynchburg**

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	8	1.53	0.024	22	22
E	14	1.72	0.022		
Btg	22	1.74	0.059		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	8	2	6	24	194	212	437	553	11
E	14	3	15	47	522	184	437	551	13
Btg	22	1	6	30	189	163	771	212	17

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	8	5.19	1.55	0.75	0.13	0.00	0.30	2.73	89.0
E	14	4.72	0.50	0.42	0.05	0.00	1.45	2.42	40.1
Btg	22	4.32	0.25	0.33	0.00	0.00	3.55	4.13	14.0

Selected Physical and Chemical Properties for Site 16.

County - Columbus

Soil series - Norfolk

Part A. Selected Physical Properties.

Horizon	Depth Inches	BD g cm ⁻³	Available Water in in ⁻¹	Depth to Bt horizon in	Depth to Water Table in
Ap	5	1.53	0.161	5	32
Bt	27	1.61	0.066		
Btg	28	1.61	0.100		

Part B. Particle Size Analysis by Hydrometer Method

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
		g kg ⁻¹							
Ap	5	2	7	32	278	307	625	368	8
Bt	27	0	3	16	138	170	327	643	30
Btg	28	0	5	22	131	161	319	648	33

Part C. Selected Chemical Properties.

Horizon	Depth Inches	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS %
		cmoles kg ⁻¹							
Ap	5	5.22	0.85	0.50	0.15	0.00	0.15	1.65	90.9
Bt	27	4.65	0.90	0.67	0.03	0.00	2.60	4.20	38.1
Btg	28	4.94	0.25	0.42	0.00	0.00	6.70	7.37	9.1

**Selected Physical and Chemical Properties for Site 17.
County - Columbus Soil series - Goldsboro**

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	9	1.64	0.109	9	44
Bt ₁	35	1.55	0.142		
Bt ₂	16	1.55	0.141		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
				g kg ⁻¹					
Ap	9	1	5	22	240	266	533	467	0
Bt ₁	35	1	2	16	179	53	250	729	20
Bt ₂	16	0	4	23	190	189	406	567	27

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	9	5.21	1.05	0.33	0.10	0.00	0.15	1.63	90.8
Bt ₁	35	4.67	0.40	0.33	0.00	0.00	2.30	3.03	24.1
Bt ₂	16	4.53	0.05	0.33	0.00	0.00	4.25	4.63	8.2

**Selected Physical and Chemical Properties for Site 18.
County - Columbus Soil series - Goldsboro**

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	6	1.45	0.117	6	36
Bt	40	1.63	0.162		
Btg	14	1.63	0.135		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
				g kg ⁻¹					
Ap	6	2	5	22	252	256	536	455	9
Bt	40	1	2	16	179	53	251	730	20
Btg	14	1	2	38	315	154	510	465	25

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	6	4.95	0.60	0.25	0.13	0.00	0.55	1.53	64.1
Bt	40	4.55	0.85	0.75	0.00	0.00	3.00	4.60	34.8
Btg	14	4.09	0.05	0.58	0.00	0.00	5.10	5.73	11.0

Selected Physical and Chemical Properties for Site 19.
County - Columbus Soil series - Lynchburg

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	7	1.61	0.078	7	20
Bt	13	1.60	0.120		
Btg	18	1.73	0.110		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
				g kg ⁻¹					
Ap	7	3	10	32	359	289	693	305	2
Bt	13	1	6	24	241	264	536	460	4
Btg	18	1	8	28	233	255	525	461	14

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	7	5.41	0.80	0.33	0.05	0.00	0.20	1.38	85.5
Bt	13	4.96	0.50	0.25	0.00	0.00	1.15	1.90	39.5
Btg	18	4.91	0.20	0.25	0.00	0.00	1.50	1.95	23.1

Selected Physical and Chemical properties for Site 20

County - Columbus Soil series - Goldsboro

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	6	1.33	0.089	6	24
Bt	18	1.65	0.131		
Btg	18	1.65	0.138		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	6	2	12	28	187	330	559	431	10
Bt	18	2	3	7	94	207	313	652	35
Btg	18	0	2	6	78	205	291	685	24

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	6	5.21	0.30	0.42	0.15	0.00	0.45	1.32	65.9
Bt	18	4.67	0.45	0.42	0.03	0.00	3.10	4.00	22.5
Btg	18	4.53	0.25	0.50	0.00	0.00	5.15	5.90	12.7

**Selected Physical and Chemical Properties for Site 25.
County - Columbus Soil series - Lynchburg**

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	8	1.58	0.080	8	22
Bt	14	1.82	0.071		
Btg	18	1.82	0.139		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
				g kg ⁻¹					
Ap	8	4	32	54	178	62	330	650	20
Bt	14	7	29	54	178	62	330	625	45
Btg	18	1	20	151	439	44	655	125	220

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	8	6.06	2.00	2.00	0.41	0.00	0.15	4.56	96.7
Bt	14	4.62	0.95	1.17	0.18	0.00	2.25	4.55	50.5
Btg	18	4.47	0.75	0.67	0.08	0.00	5.45	6.95	21.6

**Selected Physical and Chemical Properties for Site 29.
County - Columbus Soil series - Lynchburg**

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	3	1.39	0.070	15	3
Bg	12	1.64	0.083		
Btg	17	1.59	0.077		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
				g kg ⁻¹					
Ap	3	4	11	56	472	97	640	348	12
Bg	12	0	7	4	190	30	231	755	14
Btg	17	2	35	184	381	50	652	136	212

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	3	5.32	4.35	2.17	0.43	0.00	0.25	7.20	96.5
Bg	12	4.52	2.10	0.75	0.10	0.00	1.35	4.30	68.6
Btg	17	4.28	0.95	0.67	0.20	0.00	4.95	6.77	26.9

Selected Physical and Chemical Properties for Site 30.

County - Columbus

Soil series - Norfolk

Part A. Selected Physical Properties.

Horizon	Depth Inches	BD g cm ⁻³	Available Water in in ⁻¹	Depth to Bt horizon in	Depth to Water Table in
Ap	8	1.65	0.035	20	42
E	12	1.63	0.035		
Bt	22	1.63	0.032		

Part B. Particle Size Analysis by Hydrometer Method

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
				g kg ⁻¹					
Ap	8	1	20	151	546	44	762	163	75
E	12	3	23	126	558	37	747	163	90
Bt	22	2	26	140	602	31	801	49	150

Part C. Selected Chemical Properties.

Horizon	Depth Inches	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS %
					cmoles kg ⁻¹				
Ap	8	6.06	1.95	2.42	0.38	0.00	0.15	4.90	96.9
E	12	5.89	1.95	1.67	0.41	0.00	0.25	4.28	94.2
Bt	22	4.97	1.10	1.17	0.18	0.00	0.42	2.87	85.4

Selected Physical and Chemical Properties for Site 31.

County - Columbus

Soil series - Norfolk

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	7	1.79	0.037	15	60
E	8	1.70	0.035		
Bt	45	1.67	0.038		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
					g kg ⁻¹				
Ap	7	3	34	97	595	50	779	144	77
E	8	4	27	91	463	25	610	302	88
Bt	45	2	27	90	370	25	514	278	208

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	7	7.09	4.70	3.25	0.31	0.00	0.20	8.46	97.6
E	8	6.72	0.70	1.25	0.18	0.00	0.18	2.31	92.2
Bt	45	4.88	0.65	0.75	0.13	0.00	1.25	2.78	55.0

Selected Physical and Chemical Properties for Site 37.

County - Columbus Soil series - Lynchburg

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	7	1.53	0.011	12	12
E	5	1.55	0.027		
Btg	33	1.40	0.101		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
				g kg ⁻¹					
Ap	7	7	48	170	472	171	868	48	84
E	5	5	38	116	445	156	760	148	92
Btg	33	16	56	113	445	156	786	59	155

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	7	5.56	1.25	1.08	0.33	0.00	0.25	2.91	91.4
E	5	5.05	1.50	1.25	0.33	0.00	0.65	3.73	82.6
Btg	33	4.55	0.75	1.00	0.13	0.00	2.75	4.63	40.6

Selected Physical and Chemical Properties for Site 40.

County - Bladen

Soil series - Wagram

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	12	1.39	0.061	18	60
E	6	1.37	0.085		
Bt	26	1.66	0.031		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
				g kg ⁻¹					
Ap	12	2	29	111	448	181	771	214	15
E	6	3	26	84	346	169	628	354	18
Bt	26	2	10	60	330	153	555	217	228

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	12	5.48	0.05	0.17	0.03	0.00	0.10	0.35	71.4
E	6	5.13	0.40	0.33	0.08	0.00	0.40	1.21	66.9
Bt	26	4.87	0.80	0.42	0.03	0.00	2.00	3.25	38.5

Selected Physical and Chemical Properties for Site 41.

County - Bladen

Soil series - Wagram

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	10	1.37	0.192	22	60
E	12	1.38	0.081		
Bt	28	1.66	0.107		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
				g kg ⁻¹					
Ap	10	5	26	108	472	178	789	211	0
E	12	4	22	80	382	142	630	367	3
Bt	28	4	25	88	280	140	537	263	200

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	10	5.33	0.05	0.08	0.03	0.00	0.15	0.31	51.6
E	12	5.55	0.05	0.08	0.00	0.00	0.25	0.38	34.2
Bt	28	4.75	0.20	0.33	0.05	0.00	1.25	1.83	31.7

Selected Physical and Chemical Properties for Site 44.

County - Bladen

Soil series - Wagram

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	14	1.43	0.040	22	60
E	8	1.45	0.058		
Bt	28	1.45	0.108		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
				g kg ⁻¹					
Ap	14	5	30	177	589	43	844	154	2
E	8	1	16	129	462	19	627	358	15
Bt	28	1	18	136	460	28	643	80	277

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches		cmoles kg ⁻¹						%
Ap	14	5.48	0.05	0.08	0.03	0.00	0.20	0.36	44.4
E	8	5.13	0.05	0.17	0.05	0.00	0.30	0.57	47.4
Bt	28	4.86	0.55	0.33	0.03	0.00	0.35	1.26	72.2

Selected Physical and Chemical Properties for Site 45.

County - Bladen

Soil series - Rains

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	4	1.70	0.048	23	1
Bg	19	1.68	0.069		
Btg	25	1.84	0.063		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
				g kg ⁻¹					
Ap	4	14	44	205	375	21	659	271	70
Bg	19	1	15	125	464	40	645	281	74
Btg	25	1	15	120	440	48	624	270	106

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	4	5.66	0.20	0.08	0.15	0.00	1.75	2.18	19.7
Bg	19	4.95	0.05	0.08	0.03	0.00	3.85	4.01	4.0
Btg	25	4.53	0.05	0.17	0.00	0.00	3.20	3.42	6.4

Selected Physical and Chemical Properties for Site 46.

County - Bladen

Soil series - Rains

Part A. Selected Physical Properties.

Horizon	Depth Inches	BD g cm ⁻³	Available Water in in ⁻¹	Depth to Bt horizon in	Depth to Water Table in
Ap	10	1.45	0.161	22	1
Bg	12	1.71	0.065		
Btg	26	1.60	0.033		

Part B. Particle Size Analysis by Hydrometer Method

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
		g kg ⁻¹							
Ap	10	2	17	104	405	50	578	300	122
Bg	12	1	11	37	361	59	469	393	138
Btg	26	1	14	116	503	54	688	79	233

Part C. Selected Chemical Properties.

Horizon	Depth Inches	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS %
		cmoles kg ⁻¹							
Ap	10	5.96	1.25	0.08	0.10	0.00	0.85	2.28	62.7
Bt	12	5.2	0.05	0.08	0.08	0.00	3.90	4.11	5.1
Btg	26	4.63	0.05	0.08	0.03	0.00	3.10	3.26	4.9

Selected Physical and Chemical Properties for Site 47.

County - Bladen

Soil series - Wagram

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	8	1.67	0.024	16	60
E	11	1.78	0.021		
Bt	29	1.71	0.185		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
				g kg ⁻¹					
Ap	8	4	39	148	292	96	579	357	64
E	11	3	29	112	563	109	816	114	70
Bt	29	3	17	57	289	71	437	365	198

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	8	6.15	1.50	0.75	0.15	0.00	0.15	2.55	94.1
E	11	5.45	0.30	0.25	0.13	0.00	0.25	0.93	73.1
Bt	29	4.33	2.90	2.83	0.54	0.00	4.95	11.22	55.9

Selected Physical and Chemical Properties for Site 48.

County - Bladen

Soil series - Wagram

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	4	1.55	0.005	19	42
E	15	1.68	0.014		
Bt	22	1.64	0.015		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
				g kg ⁻¹					
Ap	4	2	33	141	644	100	920	21	59
E	15	3	40	203	550	90	886	46	68
Bt	22	2	23	105	444	83	657	145	198

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	4	5.36	0.60	0.25	0.10	0.00	0.25	1.20	79.2
E	15	5.15	0.10	0.08	0.08	0.00	0.35	0.61	42.6
Bt	22	4.71	2.30	1.92	0.59	0.00	2.55	7.36	65.4

Selected Physical and Chemical Properties for Site 49.

County - Bladen

Soil series - Lynchburg

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	10	1.53	0.051	19	19
E	9	1.81	0.076		
Btg	17	1.72	0.042		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
				g kg ⁻¹					
Ap	10	5	64	169	486	104	828	80	92
E	9	2	27	111	418	68	626	269	105
Btg	17	2	27	111	428	60	628	227	145

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	10	5.40	1.50	0.92	0.33	0.00	0.40	3.15	87.3
	9	4.58	0.15	0.33	0.10	0.00	1.10	1.68	34.5
	17	4.36	0.35	0.83	0.10	0.00	3.40	4.68	27.4

Selected Physical and Chemical Properties for Site 50.

County - Bladen

Soil series - Wagram

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	10	1.46	0.009	26	60
E	16	1.61	0.073		
Bt	34	1.65	0.071		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
				g kg ⁻¹					
Ap	10	7	50	159	602	81	899	9	92
E	16	5	36	116	475	94	726	177	97
Bt	34	2	29	102	407	67	607	253	140

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	10	5.47	0.95	0.25	0.10	0.00	0.20	1.50	86.7
E	16	4.88	0.25	0.17	0.05	0.00	0.65	1.12	42.0
Bt	34	4.46	0.45	0.75	0.31	0.00	2.25	3.76	40.2

Selected Physical and Chemical Properties for Site 51.

County - Bladen

Soil series - Wagram

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	16	1.31	0.011	20	45
E	4	1.68	0.031		
Bt	25	1.68	0.058		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
				g kg ⁻¹					
Ap	16	4	52	151	621	34	862	74	64
E	4	12	38	74	458	77	659	267	74
Bt	25	11	38	77	458	67	651	139	210

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	16	6.32	1.00	0.50	0.08	0.00	0.10	1.68	94.0
E	4	4.85	0.55	0.50	0.10	0.00	0.85	2.00	57.5
Bt	25	4.61	1.90	2.08	0.28	0.00	1.85	6.11	69.7

Selected Physical and Chemical Properties for Site 52.

County - Bladen

Soil series - Wagram

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	4	1.31	0.017	18	50
E	14	1.63	0.002		
Bt	32	1.64	0.068		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
				g kg ⁻¹					
Ap	4	10	43	99	708	59	919	21	60
E	14	23	46	91	689	48	897	28	75
Bt	32	11	31	64	517	29	652	189	159

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	4	5.71	0.65	0.25	0.13	0.00	0.15	1.18	87.3
E	14	5.75	0.15	0.08	0.54	0.00	0.20	0.97	79.4
Bt	32	5.10	4.80	4.17	0.59	0.00	0.50	10.06	95.0

Selected Physical and Chemical Properties for Site 53.

County - Bladen

Soil series - Rains

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	11	1.43	0.099	22	11
E	11	1.66	0.091		
Btg	23	1.50	0.006		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
				g kg ⁻¹					
Ap	11	1	59	127	432	36	655	240	105
E	11	3	22	109	522	41	697	178	125
Btg	23	3	25	94	480	68	670	125	205

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	11	5.66	5.15	3.42	0.15	0.00	0.25	8.97	97.2
E	11	4.95	1.35	2.17	0.15	0.00	1.55	5.22	70.3
Btg	23	4.53	0.50	0.83	0.10	0.00	2.80	4.23	33.8

Selected Physical and Chemical Properties for Site 54.

County - Bladen

Soil series - Rains

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	10	1.40	0.051	24	1
Bg	14	1.59	0.027		
Btg	22	1.63	0.021		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
				g kg ⁻¹					
Ap	10	7	41	126	549	76	799	191	10
Bg	14	7	76	312	471	37	903	47	50
Btg	22	5	60	207	572	45	889	30	81

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	10	5.96	3.10	1.92	0.13	0.00	0.55	5.70	90.4
Bg	14	5.20	0.45	0.50	0.03	0.00	0.40	1.38	71.0
Btg	22	4.63	1.60	1.92	0.05	0.00	0.85	4.42	80.8

Selected Physical and Chemical Properties for Site 55.

County - Bladen

Soil series - Rains

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	10	1.56	0.023	16	1
Bg	6	1.55	0.031		
Btg	32	1.55	0.025		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
				g kg ⁻¹					
Ap	10	5	46	75	524	124	774	216	10
Bg	6	3	17	78	665	101	864	86	50
Btg	32	5	37	173	516	61	792	123	85

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	10	4.79	3.65	2.33	0.38	0.00	0.25	6.61	96.2
Bg	6	4.90	1.10	0.75	0.10	0.00	0.35	2.30	84.8
Btg	32	4.59	0.30	0.42	0.05	0.00	1.55	2.32	33.2

Selected Physical and Chemical Properties for Site 56.

County - Bladen

Soil series - Goldsboro

Part A. Selected Physical Properties.

Horizon	Depth Inches	BD g cm ⁻³	Available Water in in ⁻¹	Depth to Bt horizon in	Depth to Water Table in
Ap	5	1.52	0.031	16	36
E	11	1.61	0.061		
Bt	20	1.64	0.083		

Part B. Particle Size Analysis by Hydrometer Method

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
		g kg ⁻¹							
Ap	5	15	23	101	538	118	795	195	10
E	11	15	27	52	449	115	658	329	13
Bt	20	1	8	48	424	97	578	292	130

Part C. Selected Chemical Properties.

Horizon	Depth Inches	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS %
		cmoles kg ⁻¹							
Ap	5	5.31	2.20	1.25	0.64	0.00	0.25	4.34	94.2
	11	5.32	0.70	0.67	0.20	0.00	0.35	1.92	81.8
	20	4.54	0.80	0.83	0.15	0.00	1.45	3.23	55.1

Selected Physical and Chemical Properties for Site 57.

County - Bladen

Soil series - Norfolk

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	8	1.44	0.026	8	60
Bt ₁	22	1.53	0.171		
Bt ₂	20	1.53	0.113		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
				g kg ⁻¹					
Ap	8	1	5	29	364	52	451	496	53
Bt ₁	22	1	5	29	364	52	451	274	275
Bt ₂	20	0	5	33	381	60	479	371	150

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	8	5.97	2.00	1.33	0.51	0.00	0.15	3.99	96.2
Bt ₁	22	4.97	4.35	2.67	0.26	0.00	1.15	8.43	86.4
Bt ₂	20	4.61	1.65	0.67	0.05	0.00	1.70	4.07	58.2

Selected Physical and Chemical Properties for Site 58.

County - Bladen

Soil series - Rains

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	12	1.33	0.097	12	1
Btg ₁	10	1.69	0.031		
Btg ₂	18	1.58	0.071		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
				g kg ⁻¹					
Ap	12	3	22	99	375	33	532	338	130
Btg ₁	10	1	11	74	377	27	490	283	227
Btg ₂	18	3	28	135	457	36	659	141	200

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	12	5.29	3.30	3.00	0.69	0.00	0.75	7.74	90.3
Btg ₁	10	4.73	1.10	1.75	0.26	0.00	1.85	4.96	62.7
Btg ₂	18	4.84	1.35	2.00	0.15	0.00	2.65	6.15	56.9

Selected Physical and Chemical Properties for Site 59.

County - Bladen

Soil series - Rains

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	16	1.53	0.015	22	1
Eg	6	1.63	0.038		
Btg	16	1.65	0.025		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	16	7	48	148	551	100	854	91	55
Eg	6	22	112	354	424	25	937	3	60
Btg	16	13	79	264	473	30	859	19	122

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	16	5.20	2.50	2.25	0.08	0.00	0.55	5.38	89.8
Eg	6	5.28	0.60	0.58	0.03	0.00	0.45	1.66	72.9
Btg	16	4.76	0.40	0.67	0.05	0.00	1.45	2.57	43.6

Selected Physical and Chemical Properties for Site 60.

County - Bladen

Soil series - Lynchburg

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	9	1.50	0.131	19	19
E	10	1.55	0.028		
Btg	31	1.40	0.058		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
				g kg ⁻¹					
Ap	9	3	12	144	616	41	816	134	50
E	10	0	1	27	711	40	779	166	55
Btg	31	0	1	29	582	28	640	35	325

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	9	5.45	0.10	0.58	0.03	0.00	1.30	2.01	35.3
E	10	4.93	0.05	0.08	0.03	0.00	1.75	1.91	8.4
Btg	31	4.49	0.05	0.25	0.05	0.00	3.80	4.15	8.4

Selected Physical and Chemical Properties for Site 61.

County - Bladen

Soil series - Goldsboro

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	5	1.3	0.042	5	18
Eg	13	1.64	0.061		
Btg	23	1.68	0.199		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	5	3	5	32	593	67	700	220	80
Eg	13	1	1	11	536	86	635	280	85
Btg	23	0	0	3	737	32	772	38	190

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	5	4.57	0.70	0.83	0.18	0.00	1.90	3.61	47.4
Eg	13	4.33	1.10	1.75	0.36	0.00	3.80	7.01	45.8
Btg	23	4.16	0.50	1.00	0.23	0.00	3.20	4.93	35.1

Selected Physical and Chemical Properties for Site 62.

County - Bladen

Soil series - Rains

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	14	1.62	0.058	14	1
Bg	8	1.25	0.044		
Btg	38	1.46	0.061		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	14	3	10	72	473	50	608	381	11
Bg	8	2	8	31	526	69	636	299	65
Btg	38	2	8	33	522	67	632	243	125

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	14	4.79	0.55	0.58	0.08	0.00	1.00	2.21	54.8
Bg	8	4.91	0.30	0.58	0.05	0.00	2.15	3.08	30.2
Btg	38	4.59	0.35	0.67	0.05	0.00	2.25	3.32	32.2

Selected Physical and Chemical Properties for Site 63.

County - Bladen

Soil series - Goldsboro

Part A. Selected Physical Properties.

Horizon	Depth Inches	BD g cm ⁻³	Available Water in in ⁻¹	Depth to Bt horizon in	Depth to Water Table in
Ap	8	1.70	0.083	8	40
Bt ₁	14	1.61	0.233		
Bt ₂	18	1.68	0.109		

Part B. Particle Size Analysis by Hydrometer Method

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
		g kg ⁻¹							
Ap	8	5	7	82	635	53	782	88	130
Bt ₁	14	0	1	13	528	27	569	1	430
Bt ₂	18	5	5	29	650	81	770	5	225

Part C. Selected Chemical Properties.

Horizon	Depth Inches	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS %
		cmoles kg ⁻¹							
Ap	8	4.76	0.95	1.00	0.41	0.00	1.35	3.71	63.6
Bt ₁	14	4.37	0.60	1.00	0.31	0.00	4.90	6.81	28.0
Bt ₂	18	4.17	0.40	0.50	0.20	0.00	2.75	3.85	28.6

Selected Physical and Chemical Properties for Site 64.

County - Bladen

Soil series - Goldsboro

Part A. Selected Physical Properties.

Horizon	Depth Inches	BD g cm ⁻³	Available Water in in ⁻¹	Depth to Bt horizon in	Depth to Water Table in
Ap	14	1.43	0.077	14	40
Bt ₁	16	1.52	0.136		
Bt ₂	10	1.52	0.071		

Part B. Particle Size Analysis by Hydrometer Method

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
		g kg ⁻¹							
Ap	14	3	9	61	531	62	666	259	75
Bt ₁	16	2	4	15	286	50	357	163	480
Bt ₂	10	2	6	16	440	80	544	134	322

Part C. Selected Chemical Properties.

Horizon	Depth Inches	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS %
		cmoles kg ⁻¹							
Ap	14	5.13	1.55	0.83	0.20	0.00	0.70	3.28	78.7
Bt ₁	16	4.50	4.25	2.83	0.36	0.00	2.90	10.34	72.0
Bt ₂	10	4.50	3.10	3.00	0.26	0.00	2.65	9.01	70.6

Selected Physical and Chemical Properties for Site 65.

County - Bladen

Soil series - Goldsboro

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	7	1.65	0.084	7	48
Bt ₁	29	1.50	0.132		
Bt ₂	12	1.50	0.107		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	7	2	7	37	526	66	638	243	119
Bt ₁	29	2	4	40	380	58	484	86	430
Bt ₂	12	1	2	29	602	51	685	85	230

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	7	5.39	3.70	2.00	0.59	0.00	0.35	6.64	94.7
Bt ₁	29	4.54	3.95	4.83	0.36	0.00	2.55	11.69	78.2
Bt ₂	12	4.43	1.45	1.50	0.15	0.00	2.45	5.55	55.9

Selected Physical and Chemical Properties for Site 66.

County - Bladen

Soil series - Rains

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	15	1.51	0.083	15	1
Btg ₁	7	1.52	0.058		
Btg ₂	18	1.52	0.067		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	15	8	22	91	513	127	761	164	75
Btg ₁	7	12	16	46	592	150	816	44	140
Btg ₂	18	5	14	61	397	66	543	307	150

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	15	5.06	4.15	2.50	0.23	0.00	0.25	7.13	96.5
Btg ₁	7	5.20	2.05	2.42	0.36	0.00	0.30	5.13	94.2
Btg ₂	18	4.63	2.35	2.00	0.13	0.00	0.15	4.63	96.8

Selected Physical and Chemical Properties for Site 70.

County - Bladen

Soil series - Norfolk

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	8	1.54	0.027	16	60
E	8	1.37	0.027		
Bt	18	1.52	0.046		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	8	2	7	33	778	59	879	91	30
E	8	1	6	27	731	88	853	112	35
Bt	18	1	3	59	604	4	671	106	223

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	8	5.11	1.00	0.33	0.13	0.00	0.50	1.96	74.5
E	8	4.92	0.25	0.00	0.10	0.00	0.65	1.00	35.0
Bt	18	4.71	1.35	1.50	0.64	0.00	2.45	5.94	58.8

Selected Physical and Chemical Properties for Site 71.

County - Bladen

Soil series - Norfolk

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	6	1.55	0.041	17	44
E	11	1.21	0.031		
Bt	24	1.50	0.213		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	6	0	1	5	728	30	764	176	60
E	11	1	2	22	726	85	836	100	64
Bt	24	5	8	12	603	37	665	50	285

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	6	4.79	1.55	0.25	0.10	0.00	0.60	2.50	76.0
E	11	5.71	0.70	0.17	0.15	0.00	0.20	1.22	83.6
Bt	24	5.68	3.40	5.67	0.13	0.00	0.35	9.55	96.3

Selected Physical and Chemical Properties for Site 77.

County - Bladen

Soil series - Lynchburg

Part A. Selected Physical Properties.

Horizon	Depth Inches	BD g cm ⁻³	Available Water in in ⁻¹	Depth to Bt horizon in	Depth to Water Table in
Ap	5	1.39	0.033	20	40
E	15	1.64	0.112		
Bt	20	1.59	0.117		

Part B. Particle Size Analysis by Hydrometer Method

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
		g kg ⁻¹							
Ap	5	1	3	9	210	97	320	620	60
E	15	0	1	5	363	241	610	320	70
Bt	20	1	2	13	528	36	580	61	359

Part C. Selected Chemical Properties.

Horizon	Depth Inches	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS %
		cmoles kg ⁻¹							
Ap	5	5.46	2.05	2.00	0.31	0.00	0.45	4.81	90.6
E	15	4.82	0.75	1.00	0.33	0.00	1.55	3.63	57.3
Bt	20	4.31	0.90	2.08	0.26	0.00	6.35	9.59	33.8

Selected Physical and Chemical Properties for Site 79.

County - Sampson Soil series - Goldsboro

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	9	1.73	0.162	9	28
Bt	19	1.65	0.053		
Btg	14	1.65	0.093		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	9	2	32	202	344	153	733	247	20
Bt	19	1	17	114	224	111	467	415	118
Btg	14	1	17	128	215	115	476	267	257

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	9	4.49	0.05	0.17	0.05	0.00	0.35	0.62	43.5
Bt	19	3.92	0.45	0.67	0.05	0.00	1.65	2.82	41.5
Btg	14	3.82	0.35	0.50	0.00	0.00	2.00	2.85	29.8

Selected Physical and Chemical Properties for Site 80.

County - Sampson

Soil series - Rains

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	8	1.65	0.061	8	8
Btg ₁	7	1.45	0.125		
Btg ₂	25	1.77	0.138		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	8	1	19	107	219	134	480	317	203
Btg ₁	7	2	15	74	131	68	290	290	420
Btg ₂	25	1	12	62	129	65	269	431	300

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	8	5.42	2.20	1.42	0.20	0.00	0.20	4.02	95.0
Btg ₁	7	3.82	0.45	0.83	0.08	0.00	4.75	6.11	22.3
Btg ₂	25	3.58	0.05	0.42	0.03	0.00	5.60	6.10	8.2

Selected Physical and Chemical Properties for Site 81.

County - Sampson

Soil series - Rains

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	5	1.61	0.087	5	5
Btg ₁	7	1.59	0.243		
Btg ₂	38	1.55	0.172		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	5	2	52	291	270	124	739	205	56
Btg ₁	7	2	21	118	344	118	603	152	245
Btg ₂	38	1	14	77	152	88	332	233	435

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	5	4.84	0.35	0.33	0.05	0.00	0.25	0.98	74.5
Btg ₁	7	4.29	0.75	0.67	0.08	0.00	1.45	2.95	50.8
Btg ₂	38	3.67	0.05	0.42	0.03	0.00	4.60	5.10	9.8

Selected Physical and Chemical Properties for Site 82.

County - Sampson

Soil series - Rains

Part A. Selected Physical Properties.

Horizon	Depth Inches	BD g cm ⁻³	Available Water in in ⁻¹	Depth to Bt horizon in	Depth to Water Table in
Ap	8	1.54	0.049	18	1
Bg	10	1.48	0.094		
Btg	14	1.50	0.105		

Part B. Particle Size Analysis by Hydrometer Method

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
				g kg ⁻¹					
Ap	8	1	14	98	155	128	396	573	31
Bg	10	2	20	94	164	137	417	477	106
Btg	14	4	51	122	112	86	375	368	257

Part C. Selected Chemical Properties.

Horizon	Depth Inches	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS %
					cmoles kg ⁻¹				
Ap	8	4.75	1.35	1.08	0.08	0.00	0.35	2.86	87.8
Bg	10	3.82	0.05	0.25	0.00	0.00	2.70	3.00	10.0
Btg	14	3.71	0.05	0.17	0.03	0.00	4.45	4.70	5.3

Selected Physical and Chemical Properties for Site 83.

County - Sampson

Soil series - Rains

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	8	1.56	0.011	16	1
eg	8	1.82	0.127		
Btg	32	1.46	0.127		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	8	6	21	92	170	130	419	510	71
Eg	8	5	46	129	141	97	418	516	66
Btg	32	5	46	129	141	97	418	476	106

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	8	4.84	1.65	1.25	0.08	0.00	0.20	3.18	93.7
Eg	8	4.26	0.05	0.33	0.03	0.00	1.95	2.36	17.4
Btg	32	4.72	0.15	0.25	0.15	0.00	2.40	2.95	18.6

Selected Physical and Chemical Properties for Site 84.

County - Sampson

Soil series - Norfolk

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	10	1.53	0.203	18	60
E	8	1.74	0.187		
Bt	20	1.52	0.125		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	10	7	93	387	235	77	799	191	10
E	8	12	117	227	114	51	521	469	10
Bt	20	12	117	220	31	44	424	260	316

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	10	4.66	0.05	0.08	0.00	0.00	0.30	0.43	30.2
E	8	4.51	0.05	0.08	0.03	0.01	0.35	0.52	32.7
Bt	20	4.15	0.55	0.42	0.08	0.00	0.95	2.00	52.5

Selected Physical and Chemical Properties for Site 85.

County - Sampson

Soil series - Norfolk

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	8	1.52	0.216	14	60
E	6	1.68	0.199		
Bt	34	1.53	0.123		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	8	16	112	313	167	91	699	251	50
E	6	6	111	447	230	64	858	109	33
Bt	34	6	118	412	244	72	852	8	140

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	8	4.28	0.05	0.08	0.00	0.00	0.30	0.43	30.2
E	6	4.31	0.05	0.08	0.03	0.00	0.45	0.61	26.2
Bt	34	4.00	0.30	0.33	0.08	0.00	1.45	2.16	32.9

Selected Physical and Chemical Properties for Site 86.

County - Sampson

Soil series - Norfolk

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	8	1.24	0.043	14	60
E	6	1.64	0.061		
Bt	22	1.69	0.124		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	8	4	94	436	190	59	783	142	75
E	6	6	127	416	222	65	836	84	80
Bt	22	6	112	399	220	65	802	48	150

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	8	4.15	0.10	0.08	0.13		0.35	0.66	47.0
	6	3.86	0.15	0.08	0.03		0.50	0.76	34.2
	22	3.66	0.35	0.17	0.03		0.50	1.05	52.4

Selected Physical and Chemical Properties for Site 87.

County - Sampson Soil series - Wagram

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	8	1.49	0.018	22	60
E	14	1.70	0.026		
Bt	18	1.60	0.028		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	8	8	118	413	207	61	807	178	15
E	14	6	89	396	194	47	732	258	10
Bt	18	6	114	408	140	47	715	8	277

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	8	4.15	0.05	0.08	0.13	0.00	0.55	0.81	32.1
E	14	3.44	0.05	0.08	0.03	0.00	0.55	0.71	22.5
Bt	18	3.51	0.15	0.08	0.03	0.00	2.90	3.16	8.2

Selected Physical and Chemical Properties for Site 88.

County - Sampson Soil series - Lynchburg

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	10	1.65	0.015	20	40
E	10	1.62	0.005		
Bt	20	1.74	0.030		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	10	5	103	461	207	55	831	117	52
E	10	2	83	385	185	72	727	263	10
Bt	20	2	85	388	171	56	702	15	283

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	10	4.64	0.15	0.08	0.13	0.00	1.20	1.56	23.1
E	10	3.73	0.05	0.08	0.03	0.00	1.25	1.41	11.3
Bt	20	3.50	0.20	0.17	0.08	0.00	3.10	3.55	12.7

Selected Physical and Chemical Properties for Site 89.

County - Sampson

Soil series - Norfolk

Part A. Selected Physical Properties.

Horizon	Depth Inches	BD g cm ⁻³	Available Water in in ⁻¹	Depth to Bt horizon in	Depth to Water Table in
Ap	8	1.45	0.008	16	60
E	8	1.68	0.071		
Bt	34	1.60	0.165		

Part B. Particle Size Analysis by Hydrometer Method

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
				g kg ⁻¹					
Ap	8	3	96	480	236	45	860	130	10
E	8	5	87	356	173	39	660	330	10
Bt	34	3	96	440	205	45	789	11	200

Part C. Selected Chemical Properties.

Horizon	Depth Inches	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS %
					cmoles kg ⁻¹				
Ap	8	4.84	0.30	0.08	0.03	0.00	0.35	0.76	53.9
E	8	4.03	0.05	0.08	0.03	0.00	0.35	0.51	31.4
Bt	34	3.90	0.45	0.33	0.03	0.00	1.40	2.21	36.7

Selected Physical and Chemical Properties for Site 90.

County - Sampson Soil series - Wagram

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	10	1.35	0.130	20	35
E	10	1.57	0.139		
Bt	15	1.59	0.249		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	10	2	55	502	254	69	882	68	50
E	10	2	61	426	231	43	763	211	26
Bt	15	2	63	524	238	57	884	8	108

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	10	4.00	0.10	0.08	0.13	0.00	0.55	0.86	36.0
E	10	3.95	0.05	0.08	0.03	0.00	0.50	0.66	24.2
Bt	15	4.02	0.05	0.08	0.10	0.00	0.35	0.58	39.7

Selected Physical and Chemical Properties for Site 91.

County - Sampson

Soil series - Wagram

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	8	1.44	0.042	21	36
E	13	1.70	0.053		
Bt	15	1.62	0.108		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	8	2	44	487	304	64	901	73	26
E	13	4	80	437	211	64	796	194	10
Bt	15	5	65	333	203	49	655	79	266

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	8	4.63	0.35	0.25	0.13	0.00	0.20	0.93	78.5
E	13	4.19	0.05	0.08	0.03	0.00	0.30	0.46	34.8
Bt	15	4.08	0.70	0.75	0.03	0.00	0.60	2.08	71.2

Selected Physical and Chemical Properties for Site 92.

County - Sampson

Soil series - Wagram

Part A. Selected Physical Properties.

Horizon	Depth Inches	BD g cm ⁻³	Available Water in in ⁻¹	Depth to Bt horizon in	Depth to Water Table in
Ap	8	1.43	0.034	28	60
E	20	1.80	0.149		
Bt	22	1.80	0.184		

Part B. Particle Size Analysis by Hydrometer Method

Horizon	Depth Inches	VC	C	Sand M	F	VF	Total	Silt	Clay
					g kg ⁻¹				
Ap	8	2	62	411	283	117	875	115	10
E	20	3	87	264	368	64	786	204	10
Bt	22	2	62	311	228	117	720	64	216

Part C. Selected Chemical Properties.

Horizon	Depth Inches	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS %
					cmoles kg ⁻¹				
Ap	8	4.28	0.10	0.08	0.13	0.00	0.15	0.46	67.4
E	20	4.25	0.05	0.08	0.13	0.00	0.35	0.61	42.6
Bt	22	3.85	0.35	0.42	0.03	0.00	1.65	2.45	32.7

Selected Physical and Chemical Properties for Site 93.

County - Sampson Soil series - Goldsboro

Part A. Selected Physical Properties.

Horizon	Depth Inches	BD g cm ⁻³	Available Water in in ⁻¹	Depth to Bt horizon in	Depth to Water Table in
Ap	6	1.42	0.039	6	12
Bt	6	1.49	0.004		
Btg	24	1.44	0.032		

Part B. Particle Size Analysis by Hydrometer Method

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
				g kg ⁻¹					
Ap	6	2	38	199	453	144	836	121	43
Bt	6	2	23	113	183	111	432	477	91
Btg	24	2	23	117	211	99	452	265	283

Part C. Selected Chemical Properties.

Horizon	Depth Inches	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS %
					cmoles kg ⁻¹				
Ap	6	4.18	0.15	0.33	0.05	0.00	0.80	1.33	39.8
Bt	6	4.16	1.05	0.67	0.05	0.00	1.15	2.92	60.6
Btg	24	4.11	0.95	0.75	0.03	0.00	1.10	2.83	61.1

Selected Physical and Chemical Properties for Site 94.

County - Sampson

Soil series - Rains

Part A. Selected Physical Properties.

Horizon	Depth Inches	BD g cm ⁻³	Available Water in in ⁻¹	Depth to Bt horizon in	Depth to Water Table in
Ap	10	1.43	0.203	16	1
Eg	6	1.32	0.071		
Btg	20	1.32	0.029		

Part B. Particle Size Analysis by Hydrometer Method

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
				g kg ⁻¹					
Ap	10	7	112	340	221	103	783	207	10
Eg	6	7	75	341	217	115	755	235	10
Btg	20	8	91	241	400	97	837	55	108

Part C. Selected Chemical Properties.

Horizon	Depth Inches	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS %
				cmoles kg ⁻¹					
Ap	10	4.37	0.50	0.17	0.03	0.00	0.50	1.20	58.3
	6	4.44	0.45	0.17	0.03	0.00	0.70	1.35	48.1
	20	4.07	0.40	0.25	0.03	0.00	1.70	2.38	28.6

Selected Physical and Chemical Properties for Site 95.

County - Sampson Soil series - Goldsboro

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	6	1.71	0.111	6	26
Bt	20	1.66	0.171		
Btg	14	1.66	0.175		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	6	8	85	406	276	82	857	113	30
Bt	20	10	77	262	176	55	580	163	257
Btg	14	12	91	366	199	60	728	107	165

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	6	5.95	0.65	0.33	0.03	0.00	0.30	1.31	77.1
Bt	20	5.88	0.95	0.92	0.20	0.00	0.30	2.37	87.3
Btg	14	4.87	0.55	0.50	0.03	0.00	1.15	2.23	48.4

Selected Physical and Chemical Properties for Site 96.

County - Sampson Soil series - Lynchburg

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	14	1.57	0.075	14	14
Btg ₁	10	1.41	0.091		
Btg ₂	12	1.59	0.036		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	14	5	90	467	264	58	884	106	10
Btg ₁	10	6	159	516	154	30	865	5	130
Btg ₂	12	8	137	466	160	80	851	14	135

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	14	5.18	0.15	0.08	0.03	0.00	0.55	0.81	32.1
Btg ₁	10	4.83	1.00	0.08	0.03	0.00	2.85	3.96	28.0
Btg ₂	12	5.05	1.00	0.25	0.05	0.00	1.65	2.95	44.1

Selected Physical and Chemical Properties for Site 97.

County - Sampson Soil series - Lynchburg

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	10	1.59	0.047	10	40
E	12	1.69	0.150		
Bt	18	1.61	0.125		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	10	4	74	497	227	65	867	98	35
E	12	5	83	390	172	43	693	270	37
Bt	18	5	83	380	155	27	650	197	153

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	10	5.54	0.25	0.08	0.03	0.00	0.60	0.96	37.5
E	12	4.77	0.70	0.08	0.03	0.00	1.40	2.21	36.7
Bt	18	4.70	0.30	0.17	0.03	0.00	1.10	1.60	31.3

Selected Physical and Chemical Properties for Site 98.

County - Sampson Soil series - Lynchburg

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	14	1.43	0.029	14	38
E	6	1.78	0.081		
Bt	18	1.64	0.052		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	14	2	83	510	246	55	896	94	10
E	6	4	77	336	162	47	626	361	13
Bt	18	7	96	362	162	43	670	152	178

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	14	5.10	0.35	0.08	0.03	0.00	0.65	1.11	41.4
E	6	4.13	0.40	0.25	0.10	0.00	1.55	2.30	32.6
Bt	18	3.96	0.30	0.25	0.08	0.00	1.55	2.18	28.9

Selected Physical and Chemical Properties for Site 99.

County - Sampson Soil series - Wagram

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	12	1.40	0.029	24	60
E	12	1.57	0.215		
Bt	24	1.57	0.042		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	12	1	91	611	206	31	940	50	10
E	12	4	105	382	170	60	721	269	10
Bt	24	6	100	372	170	62	710	160	130

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	12	5.38	0.10	0.08	0.03	0.00	0.50	0.71	29.6
E	12	5.15	0.05	0.08	0.03	0.00	0.75	0.91	17.6
Bt	24	4.34	0.10	0.08	0.03	0.00	1.80	2.01	10.4

**Selected Physical and Chemical Properties for Site 100.
County - Sampson Soil series - Lynchburg**

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	8	1.56	0.005	20	20
E	12	1.69	0.070		
Btg	20	1.60	0.025		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	8	1	78	539	214	48	880	83	37
E	12	1	84	465	204	54	808	150	42
Btg	20	1	88	435	178	77	779	156	65

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	8	5.21	0.30	0.08	0.03	0.00	0.65	1.06	38.7
E	12	5.43	0.10	0.08	0.03	0.00	0.55	0.76	27.6
Bt	20	4.03	0.20	0.17	0.03	0.00	0.85	1.25	32.0

**Selected Physical and Chemical Properties for Site 101.
County - Sampson Soil series - Goldsboro**

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	12	1.61	0.036	12	24
Bt	12	1.71	0.102		
Btg	24	1.52	0.026		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	12	6	31	127	290	156	610	380	10
Bt	12	1	13	73	195	105	387	263	350
Btg	24	1	13	55	158	99	326	282	392

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	12	4.89	0.45	0.17	0.08	0.00	0.90	1.60	43.8
Bt	12	4.92	0.85	0.75	0.13	0.00	2.85	4.58	37.8
Btg	24	4.55	0.80	0.58	0.03	0.00	3.75	5.16	27.3

**Selected Physical and Chemical Properties for Site 102.
County - Sampson Soil series - Goldsboro**

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	12	1.59	0.028	12	27
Bt	15	1.64	0.024		
Btg	21	1.64	0.092		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	12	4	26	125	270	142	567	376	57
Bt	15	1	15	61	164	84	325	447	228
Btg	21	0	9	54	154	90	307	258	435

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	12	5.41	0.70	0.33	0.08	0.00	0.60	1.71	64.9
Bt	15	3.96	0.95	0.75	0.08	0.00	4.20	5.98	29.8
Btg	21	3.65	0.50	0.50	0.03	0.00	4.75	5.78	17.8

Selected Physical and Chemical Properties for Site 103.

County - Sampson

Soil series - Norfolk

Part A. Selected Physical Properties.

Horizon	Depth Inches	BD g cm ⁻³	Available Water in in ⁻¹	Depth to Bt horizon in	Depth to Water Table in
Ap	8	1.47	0.101	14	48
E	6	1.59	0.158		
Bt	34	1.64	0.020		

Part B. Particle Size Analysis by Hydrometer Method

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
				g kg ⁻¹					
Ap	8	4	24	120	316	139	603	345	52
E	6	1	11	61	212	97	382	558	60
Bt	34	1	11	66	234	88	400	418	182

Part C. Selected Chemical Properties.

Horizon	Depth Inches	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS %
					cmoles kg ⁻¹				
Ap	8	5.86	0.65	0.17	0.08	0.00	0.35	1.25	72.0
E	6	4.49	0.40	0.17	0.05	0.00	0.20	0.82	75.6
Bt	34	4.29	1.65	1.17	0.05	0.00	0.75	3.62	79.3

Selected Physical and Chemical Properties for Site 116.
County - Sampson Soil series - Norfolk

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	10	1.55	0.053	10	40
Bt ₁	3	1.66	0.074		
Bt ₂	27	1.61	0.031		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	10	4	89	415	187	36	731	209	60
Bt ₁	3	2	70	260	179	54	565	128	307
Bt ₂	27	6	37	85	208	88	424	271	305

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	10	6.20	3.90	2.83	0.31	0.00	0.15	7.19	97.9
Bt ₁	3	5.40	1.70	3.67	0.56	0.00	0.75	6.68	88.8
Bt ₂	27	4.85	2.45	2.00	0.43	0.00	0.75	5.63	86.7

**Selected Physical and Chemical Properties for Site 117.
County - Sampson Soil series - Goldsboro**

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	12	1.67	0.056	12	30
Bt	18	1.79	0.151		
Btg	30	1.79	0.111		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	12	2	29	178	78	3	290	633	77
Bt	18	3	60	257	115	38	473	252	275
Btg	30	2	12	41	385	77	517	111	372

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	12	5.54	3.15	2.17	0.41	0.00	0.35	6.08	94.2
Bt	18	4.75	3.00	2.83	0.56	0.00	1.25	7.64	83.6
Btg	30	4.90	3.40	2.17	0.43	0.00	1.30	7.30	82.2

Selected Physical and Chemical Properties for Site 118.

County - Sampson

Soil series - Norfolk

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	8	1.55	0.019	18	32
E	10	1.72	0.089		
Bt	16	1.72	0.071		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	8	4	116	511	258	37	926	44	30
E	10	3	110	446	226	33	818	147	35
Bt	16	4	71	237	153	36	501	349	150

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	8	4.97	0.10	0.00	0.05	0.00	0.45	0.60	25.0
E	10	4.81	0.25	0.00	0.00	0.00	0.65	0.90	27.8
Bt	16	4.65	0.65	0.50	0.13	0.00	1.00	2.28	56.1

Selected Physical and Chemical Properties for Site 119.

County - Sampson Soil series - Wagram

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	8	1.54	0.023	18	44
E	10	1.72	0.033		
Bt	26	1.78	0.062		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	8	3	130	501	231	28	893	82	25
E	10	3	138	439	225	47	852	118	30
Bt	26	5	66	228	125	35	459	361	180

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	8	4.73	0.30	0.00	0.05	0.00	0.55	0.90	38.9
E	10	4.66	0.10	0.00	0.05	0.00	0.45	0.60	25.0
Bt	26	4.71	1.20	1.58	0.31	0.00	0.85	3.94	78.4

Selected Physical and Chemical Properties for Site 120.

County - Sampson

Soil series - Wagram

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	6	1.68	0.042	14	60
E	8	1.60	0.049		
Bt	24	1.78	0.021		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	6	7	86	556	187	30	866	94	40
E	8	2	127	454	225	35	843	127	30
Bt	24	6	113	437	160	26	742	108	150

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	6	5.30	1.10	0.67	0.13	0.00	0.35	2.25	84.4
E	8	5.10	0.55	1.67	0.13	0.00	1.85	4.20	56.0
Bt	24	4.45	0.30	0.33	0.20	0.00	1.85	2.68	31.0

**Selected Physical and Chemical Properties for Site 121.
County - Sampson Soil series - Goldsboro**

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	6	1.64	0.012	6	12
bt	6	1.19	0.019		
Btg	30	1.32	0.063		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	6	3	201	521	136	24	885	105	10
Bt	6	3	172	496	148	30	849	51	100
Btg	30	5	160	403	115	22	705	145	150

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	6	5.14	0.85	0.42	0.10	0.00	0.70	2.07	66.2
Bt	6	5.37	0.80	0.50	0.10	0.00	0.45	1.85	75.7
Btg	30	4.82	0.70	1.08	0.20	0.00	1.65	3.63	54.5

Selected Physical and Chemical Properties for Site 122.

County - Sampson Soil series - Wagram

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	8	1.45	0.023	20	60
E	12	1.62	0.018		
Bt	40	1.58	0.057		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	8	3	129	562	138	29	861	109	30
E	12	5	187	471	133	25	821	144	35
Bt	40	4	136	380	111	46	677	168	155

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	8	4.88	0.25	0.00	0.13	0.00	0.75	1.13	33.6
E	12	4.85	0.05	0.00	0.03	0.00	0.75	0.83	9.6
Bt	40	4.75	1.40	1.25	0.26	0.00	0.95	3.86	75.4

Selected Physical and Chemical Properties for Site 123.

County - Sampson

Soil series - Rains

Part A. Selected Physical Properties.

Horizon	Depth Inches	BD g cm ⁻³	Available Water in in ⁻¹	Depth to Bt horizon in	Depth to Water Table in
Ap	10	1.52	0.134	14	1
Eg	4	1.76	0.389		
Btg	20	1.68	0.115		

Part B. Particle Size Analysis by Hydrometer Method

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
				g kg ⁻¹					
Ap	12	3	88	306	78	45	520	375	105
Eg	4	4	63	155	79	38	339	506	155
Btg	20	6	85	227	101	53	472	378	150

Part C. Selected Chemical Properties.

Horizon	Depth Inches	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS %
					cmoles kg ⁻¹				
Ap	12	4.69	1.00	1.17	0.26	0.00	2.35	4.78	50.8
Eg	4	4.04	0.95	1.17	0.15	0.00	6.80	9.07	25.0
Btg	20	4.24	0.40	0.42	0.10	0.00	4.35	5.27	17.5

**Selected Physical and Chemical Properties for Site 124.
County - Sampson Soil series - Lynchburg**

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	6	1.72	0.043	22	6
Bg	16	1.83	0.001		
Btg	14	1.80	0.061		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	6	3	127	415	137	41	723	202	75
Bg	16	3	114	415	129	42	703	167	130
Btg	14	3	93	417	98	30	641	5	354

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	6	5.15	1.20	1.58	0.23	0.00	0.67	3.68	81.8
Bg	16	4.73	0.45	0.75	0.13	0.00	1.10	2.43	54.7
Btg	14	5.15	1.10	0.92	0.13	0.00	1.15	3.30	65.2

Selected Physical and Chemical Properties for Site 125.

County - Sampson

Soil series - Rains

Part A. Selected Physical Properties.

Horizon	Depth Inches	BD g cm ⁻³	Available Water in in ⁻¹	Depth to Bt horizon in	Depth to Water Table in
Ap	6	1.81	0.088	6	1
Btg ₁	30	1.66	0.155		
Btg ₂	24	1.52	0.174		

Part B. Particle Size Analysis by Hydrometer Method

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
				g kg ⁻¹					
Ap	6	12	155	311	115	39	632	313	55
Btg ₁	30	6	110	235	79	41	471	204	325
Btg ₂	24	9	112	220	66	12	419	276	305

Part C. Selected Chemical Properties.

Horizon	Depth Inches	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS %
					cmoles kg ⁻¹				
Ap	6	5.01	1.85	1.25	0.61	0.00	1.00	4.71	78.8
Btg ₁	30	4.33	1.35	1.83	0.43	0.00	5.00	8.61	41.9
Btg ₂	24	4.14	0.80	0.75	0.23	0.00	6.50	8.28	21.5

**Selected Physical and Chemical Properties for Site 126.
County - Sampson Soil series - Goldsboro**

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	6	1.35	0.002	6	30
Bt	24	1.56	0.093		
Btg	30	1.56	0.072		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	6	7	146	518	139	35	845	130	25
Bt	24	4	96	262	100	21	483	117	400
Btg	30	7	116	332	87	121	663	32	305

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	6	5.57	1.35	0.58	0.28	0.00	0.25	2.46	89.8
Bt	24	4.56	2.35	2.92	0.46	0.00	1.30	7.03	81.5
Btg	30	4.54	2.15	1.25	0.13	0.00	2.45	5.98	59.0

Selected Physical and Chemical Properties for Site 127.

County - Sampson

Soil series - Norfolk

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	6	1.64	0.036	13	36
E	7	1.86	0.055		
Bt	23	1.39	0.037		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	6	7	135	431	157	37	767	183	50
E	7	4	97	354	121	34	610	335	55
Bt	23	9	113	285	75	29	511	324	165

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	6	5.28	0.80	0.50	0.18	0.00	0.65	2.13	69.5
E	7	5.07	0.95	1.33	0.26	0.00	0.60	3.14	80.9
Bt	23	4.60	2.20	2.42	0.51	0.00	1.70	6.83	75.1

Selected Physical and Chemical Properties for Site 128.

County - Sampson

Soil series - Norfolk

Part A. Selected Physical Properties.

Horizon	Depth Inches	BD g cm ⁻³	Available Water in in ⁻¹	Depth to Bt horizon in	Depth to Water Table in
Ap	8	1.78	0.050	18	60
E	10	1.68	0.029		
Bt	30	1.59	0.064		

Part B. Particle Size Analysis by Hydrometer Method

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
				g kg ⁻¹					
Ap	8	7	29	131	465	112	744	206	50
E	10	7	29	129	437	103	705	240	55
Bt	30	9	35	109	347	95	595	240	165

Part C. Selected Chemical Properties.

Horizon	Depth Inches	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS %
					cmoles kg ⁻¹				
Ap	8	4.68	1.15	1.67	0.33	0.00	0.50	3.65	86.3
E	10	4.73	2.05	1.08	0.31	0.00	0.85	4.29	80.2
Bt	30	4.47	1.90	1.67	0.33	0.00	1.70	5.60	69.6

**Selected Physical and Chemical Properties for Site 129.
County - Sampson Soil series - Goldsboro**

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	8	1.75	0.026	8	20
Bt	12	1.61	0.062		
Btg	40	1.59	0.061		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	8	14	90	166	414	97	781	189	30
Bt	12	13	81	129	278	66	567	178	255
Btg	40	10	54	112	262	60	498	292	210

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	8	5.37	1.75	3.58	0.26	0.00	0.45	6.04	92.5
Bt	12	4.65	2.35	1.17	0.28	0.00	3.45	7.25	52.4
Btg	40	4.42	0.85	1.58	0.13	0.00	4.15	6.71	38.2

**Selected Physical and Chemical Properties for Site 130.
County - Sampson Soil series - Goldsboro**

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	8	1.80	0.048	8	16
Bt	8	1.71	0.064		
Btg	21	1.70	0.070		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	8	10	71	135	384	104	704	239	57
Bt	8	10	67	113	291	77	558	207	235
Btg	21	10	60	103	245	46	464	331	205

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	8	5.10	1.65	1.58	0.28	0.00	0.90	4.41	79.6
Bt	8	4.44	2.10	3.00	0.31	0.00	2.15	7.56	71.6
Btg	21	4.32	1.70	2.42	0.18	0.00	3.25	7.55	57.0

Selected Physical and Chemical Properties for Site 131.

County - Sampson Soil series - Wagram

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	8	1.65	0.000	20	40
E	12	1.70	0.035		
Bt	20	1.64	0.074		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	8	2	27	183	647	52	911	39	50
E	12	2	29	156	567	76	830	125	45
Bt	20	4	11	126	417	38	596	174	230

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	8	5.34	0.75	0.42	0.08	0.00	0.40	1.65	75.8
E	12	4.85	0.10	0.00	0.05	0.00	0.55	0.70	21.4
Bt	0	4.95	0.90	0.67	0.05	0.01	2.85	4.48	36.4

**Selected Physical and Chemical Properties for Site 132.
County - Sampson Soil series - Lynchburg**

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	8	1.47	0.068	19	19
Bg	11	1.87	0.050		
Btg	14	1.62	0.011		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	8	9	29	207	446	54	745	225	30
Bg	11	4	25	104	503	50	686	134	180
Btg	14	5	30	105	481	37	658	160	182

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	8	5.76	2.10	2.75	0.28	0.00	0.35	5.48	93.6
Bg	11	4.80	1.30	0.92	0.20	0.00	1.65	4.07	59.5
Btg	14	4.70	1.60	0.83	0.20	0.00	2.10	4.73	55.6

Selected Physical and Chemical Properties for Site 133.

County - Sampson

Soil series - Norfolk

Part A. Selected Physical Properties.

Horizon	Depth Inches	BD g cm ⁻³	Available Water in in ⁻¹	Depth to Bt horizon in	Depth to Water Table in
Ap	12	1.65	0.041	12	45
Bt ₁	14	1.84	0.066		
Bt ₂	21	1.53	0.053		

Part B. Particle Size Analysis by Hydrometer Method

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
				g kg ⁻¹					
Ap	12	3	33	184	559	29	808	187	5
Bt ₁	14	2	27	167	385	34	615	275	110
Bt ₂	21	2	28	145	486	42	703	102	195

Part C. Selected Chemical Properties.

Horizon	Depth Inches	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS %
					cmoles kg ⁻¹				
Ap	12	5.34	1.10	1.50	0.15	0.00	0.45	3.20	85.9
Bt ₁	14	4.56	1.75	1.50	0.33	0.00	1.85	5.43	65.9
Bt ₂	21	4.88	1.50	0.67	0.28	0.00	1.55	4.00	61.3

Selected Physical and Chemical Properties for Site 134.

County - Sampson

Soil series - Norfolk

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	8	1.47	0.013	16	60
E	8	1.80	0.011		
Bt	20	1.80	0.049		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	8	2	12	153	603	59	829	111	60
E	8	1	11	145	607	37	801	144	55
Bt	20	3	4	151	411	13	582	222	196

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	8	6.20	2.00	1.50	0.10	0.00	0.25	3.85	93.5
E	8	5.73	0.55	0.33	0.13	0.00	0.20	1.21	83.5
Bt	20	4.55	1.35	1.75	0.28	0.00	2.60	5.98	56.5

Selected Physical and Chemical Properties for Site 135.

County - Sampson

Soil series - Rains

Part A. Selected Physical Properties.

Horizon	Depth Inches	BD g cm ⁻³	Available Water in in ⁻¹	Depth to Bt horizon in	Depth to Water Table in
Ap	8	1.58	0.038	16	16
E	8	1.64	0.069		
Btg	18	1.64	0.106		

Part B. Particle Size Analysis by Hydrometer Method

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
				g kg ⁻¹					
Ap	8	2	32	156	504	28	722	248	30
E	8	3	36	152	462	61	714	253	33
Btg	18	5	32	142	428	12	619	196	185

Part C. Selected Chemical Properties.

Horizon	Depth Inches	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS %
					cmoles kg ⁻¹				
Ap	8	5.43	1.65	1.58	0.26	0.00	0.65	4.14	84.3
E	8	4.64	0.60	0.42	0.20	0.00	2.05	3.27	37.3
Btg	18	4.61	0.90	0.92	0.28	0.00	3.45	5.55	37.8

**Selected Physical and Chemical Properties for Site 136.
County - Sampson Soil series - Lynchburg**

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	5	1.45	0.089	5	20
Bt	15	1.47	0.181		
Btg	20	1.62	0.092		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	5	2	12	280	628	16	938	57	5
Bt	15	2	1	111	411	4	529	91	380
Btg	20	1	3	91	375	42	512	278	210

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	5	5.64	0.35	0.25	0.05	0.00	0.20	0.85	76.5
Bt	15	4.78	2.15	1.83	0.49	0.00	4.05	8.52	52.5
Btg	20	4.61	0.80	0.17	0.15	0.00	2.30	3.42	32.7

**Selected Physical and Chemical Properties for Site 139.
County - Sampson Soil series - Lynchburg**

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	6	1.57	0.117	6	38
Bt ₁	12	1.70	0.187		
Bt ₂	28	1.57	0.062		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	6	8	61	192	515	29	805	170	25
Bt ₁	12	8	45	105	280	42	480	95	425
Bt ₂	28	15	56	136	341	36	584	201	215

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	6	5.77	1.55	1.92	0.15	0.00	0.40	4.02	90.0
Bt ₁	12	4.80	1.50	1.58	0.38	0.00	2.70	6.16	56.2
Bt ₂	28	4.83	1.65	2.42	0.13	0.00	0.40	4.60	91.3

**Selected Physical and Chemical Properties for Site 140.
County - Sampson Soil series - Lynchburg**

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	8	1.57	0.062	8	30
Bt	22	1.52	0.209		
Btg	30	1.52	0.181		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	8	16	71	230	436	3	756	189	55
Bt	22	11	59	129	406	22	627	113	260
Btg	30	10	60	138	401	22	631	144	225

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	8	5.14	1.15	1.33	0.18	0.00	0.85	3.51	75.8
Bt	22	5.50	2.15	1.58	0.44	0.00	0.35	4.52	92.3
Btg	30	4.90	1.95	2.25	0.10	0.00	0.95	5.25	81.9

Selected Physical and Chemical Properties for Site 144.

County - Sampson

Soil series - Rains

Part A. Selected Physical Properties.

Horizon	Depth Inches	BD g cm ⁻³	Available Water in in ⁻¹	Depth to Bt horizon in	Depth to Water Table in
Ap	8	1.52	0.031	16	1
Bg	8	1.64	0.103		
Btg	20	1.70	0.042		

Part B. Particle Size Analysis by Hydrometer Method

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
		g kg ⁻¹							
Ap	8	8	28	71	526	65	698	272	30
Bg	8	3	22	66	513	71	675	175	150
Btg	20	4	29	53	454	55	595	275	130

Part C. Selected Chemical Properties.

Horizon	Depth Inches	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS %
		cmoles kg ⁻¹							
Ap	8	6.32	6.30	5.67	0.33	0.00	0.30	12.60	97.6
Bg	8	4.92	0.65	0.02	0.13	0.00	1.60	2.40	33.3
Btg	20	4.64	0.35	0.50	0.05	0.00	3.00	3.90	23.1

Selected Physical and Chemical Properties for Site 146.

County - Sampson

Soil series - Rains

Part A. Selected Physical Properties.					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm ⁻³	in in ⁻¹	in	in
Ap	8	1.67	0.064	8	1
Bg	6	1.67	0.038		
Btg	36	1.74	0.072		

Part B. Particle Size Analysis by Hydrometer Method									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg ⁻¹				
Ap	8	10	38	82	436	53	619	351	30
Bg	6	7	40	81	405	38	571	199	230
Btg	36	6	40	86	401	39	572	223	205

Part C. Selected Chemical Properties.									
Horizon	Depth	pH	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	Al ³⁺	ECEC	BS
	Inches				cmoles kg ⁻¹				%
Ap	8	6.04	9.45	7.50	0.33	0.00	0.35	17.63	98.0
Bg	6	4.91	2.10	2.50	0.28	0.00	3.25	8.13	60.0
Btg	36	4.69	0.55	0.92	0.13	0.00	4.00	5.60	28.6