

**Selected Physical and Chemical Properties for Site 154.**

**County - Bertie**

**Soil series - Lynchburg**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	6	1.69	0.015	6	24
Bt	18	1.64	0.095		
Btg	24	1.70	0.054		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	6	4	20	172	483	121	800	160	40
Bt	8	3	16	139	339	88	585	211	204
Btg	24	3	15	121	360	81	580	198	222

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	6	6.22	0.50	0.25	0.13	0.00	0.25	1.13	77.9
Bt	8	4.93	0.60	0.50	0.08	0.00	2.60	3.78	31.2
Btg	24	4.42	0.65	0.33	0.05	0.00	5.00	6.03	17.1

**Selected Physical and Chemical Properties for Site 155.**

**County - Bertie**

**Soil series - Wagram**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.54	0.042	20	40
E	12	1.77	0.047		
Bt	20	1.60	0.225		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	2	23	213	478	116	832	90	78
E	12	4	19	179	380	92	674	242	84
Bt	20	4	20	170	365	88	647	76	277

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	6.62	0.45	0.17	0.05	0.00	0.35	1.02	65.7
E	12	5.21	0.05	0.08	0.03	0.00	0.65	0.81	19.8
Bt	20	4.91	0.10	0.08	0.05	0.00	0.21	0.44	52.3

**Selected Physical and Chemical Properties for Site 156.**

**County - Bertie**

**Soil series - Wagram**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	10	1.40	0.028	23	60
E	13	1.77	0.012		
Bt	13	1.71	0.027		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	10	2	30	285	491	67	875	85	40
E	13	2	23	214	380	57	676	279	45
Bt	13	2	22	200	358	62	644	162	194

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	10	6.09	0.55	0.17	0.03	0.00	0.15	0.90	83.3
E	13	5.16	0.30	0.17	0.03	0.00	0.15	0.65	76.9
Bt	13	4.77	2.25	1.33	0.13	0.00	0.20	3.91	94.9

**Selected Physical and Chemical Properties for Site 157.**

**County - Bertie**

**Soil series - Wagram**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.49	0.085	16	60
E	8	1.80	0.146		
Bt	22	1.72	0.245		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	2	22	270	438	83	815	103	82
E	8	1	15	178	412	90	696	216	88
Bt	22	2	16	166	388	110	682	96	222

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	5.99	0.50	0.17	0.08	0.00	0.15	0.90	83.3
E	8	5.04	0.40	0.25	0.08	0.00	0.20	0.93	78.5
Bt	22	4.78	1.45	0.50	0.15	0.00	0.35	2.45	85.7

**Selected Physical and Chemical Properties for Site 158.**

**County - Bertie**

**Soil series - Goldsboro**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	9	1.78	0.047	9	36
Bt	27	1.71	0.163		
Btg	24	1.71	0.123		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	9	2	15	178	412	90	697	251	52
Bt	27	2	14	95	309	83	503	231	266
Btg	24	2	12	117	285	62	478	306	216

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	9	5.79	0.50	0.17	0.13	0.00	0.25	1.05	76.2
Bt	27	4.84	1.25	0.50	0.08	0.00	2.30	4.13	44.3
Btg	24	3.69	0.85	0.75	0.03	0.00	3.65	5.28	30.9

**Selected Physical and Chemical Properties for Site 159.**

**County - Bertie**

**Soil series - Norfolk**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.62	0.127	12	41
E	4	1.57	0.083		
Bt	29	1.79	0.213		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	2	19	209	412	107	749	131	120
E	4	4	17	116	307	79	523	352	125
Bt	29	4	17	116	307	79	523	278	199

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	5.48	0.35	0.08	0.05	0.00	0.40	0.88	54.5
E	4	4.31	0.35	0.17	0.03	0.00	1.20	1.75	31.4
Bt	29	3.95	0.80	0.33	0.03	0.00	3.25	4.41	26.3

**Selected Physical and Chemical Properties for Site 160.**

**County - Bertie**

**Soil series - Wagram**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.22	0.057	28	50
E	20	1.79	0.142		
Bt	22	1.79	0.258		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	3	37	288	436	75	839	83	78
E	20	21	76	240	279	53	669	252	79
Bt	22	4	17	240	277	55	593	204	203

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	5.86	0.45	0.17	0.00	0.00	0.15	0.77	80.5
E	20	4.86	0.10	0.08	0.00	0.00	0.25	0.43	41.9
Bt	0	4.64	0.60	0.83	0.08	0.00	0.95	2.46	61.4

**Selected Physical and Chemical Properties for Site 161.**

**County - Bertie**

**Soil series - Wagram**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	10	1.67	0.054	20	60
E	10	1.85	0.249		
Bt	20	1.80	0.064		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	10	2	29	240	451	88	810	145	45
E	10	2	22	166	361	73	624	322	54
Bt	20	2	22	173	355	78	630	130	240

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	10	5.47	0.45	0.17	0.03	0.00	0.25	0.90	72.2
E	10	5.53	0.20	0.08	0.03	0.00	0.20	0.51	60.8
Bt	20	4.78	0.55	0.92	0.10	0.00	1.60	3.17	49.5



**Selected Physical and Chemical Properties for Site 164.**

**County - Bertie**

**Soil series - Norfolk**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.72	0.064	8	44
Bt <sub>1</sub>	6	1.78	0.068		
Bt <sub>2</sub>	30	1.66	0.214		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	5	22	169	405	123	724	208	68
Bt <sub>1</sub>	6	3	15	97	330	103	548	350	102
Bt <sub>2</sub>	30	3	17	107	329	111	567	233	200

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	5.47	0.85	0.25	0.10	0.00	0.35	1.55	77.4
Bt <sub>1</sub>	6	5.39	0.70	0.25	0.08	0.00	0.35	1.38	74.6
Bt <sub>2</sub>	30	4.55	0.55	0.33	0.05	0.00	2.85	3.78	24.6

**Selected Physical and Chemical Properties for Site 165.**

**County - Bertie**

**Soil series - Lynchburg**

**Part A. Selected Physical Properties.**

Horizon	Depth Inches	BD g cm <sup>-3</sup>	Available Water in in <sup>-1</sup>	Depth to Bt horizon in	Depth to Water Table in
Ap	8	1.65	0.018	30	30
E	22	1.75	0.059		
Btg	20	1.76	0.118		

**Part B. Particle Size Analysis by Hydrometer Method**

Horizon	Depth Inches	VC	C	Sand M	F	VF	Total	Silt	Clay
					g kg <sup>-1</sup>				
Ap	8	3	19	154	449	127	752	201	47
E	8	3	15	113	328	84	543	416	41
Btg	20	3	18	111	354	98	584	224	192

**Part C. Selected Chemical Properties.**

Horizon	Depth Inches	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS %
					cmoles kg <sup>-1</sup>				
Ap	8	6.06	0.80	0.17	0.13	0.00	0.25	1.35	81.5
E	8	5.65	0.40	0.08	0.08	0.00	0.25	0.81	69.1
Btg	20	4.54	0.60	0.42	0.10	0.00	3.10	4.22	26.5

**Selected Physical and Chemical Properties for Site 166.**

**County - Bertie**

**Soil series - Lynchburg**

**Part A. Selected Physical Properties.**

Horizon	Depth Inches	BD g cm <sup>-3</sup>	Available Water in in <sup>-1</sup>	Depth to Bt horizon in	Depth to Water Table in
Ap	8	1.46	0.074	8	36
Bt <sub>1</sub>	3	1.90	0.162		
Bt <sub>2</sub>	22	1.71	0.091		

**Part B. Particle Size Analysis by Hydrometer Method**

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
				g kg <sup>-1</sup>					
Ap	8	2	18	239	535	99	893	81	26
Bt <sub>1</sub>	3	3	17	157	396	97	670	292	38
Bt <sub>2</sub>	22	3	17	157	396	97	670	138	192

**Part C. Selected Chemical Properties.**

Horizon	Depth Inches	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS %
				cmoles kg <sup>-1</sup>					
Ap	8	5.43	0.30	0.08	0.05	0.00	0.30	0.73	58.9
Bt <sub>1</sub>	3	4.98	0.25	0.08	0.08	0.00	0.35	0.76	53.9
Bt <sub>2</sub>	22	4.62	0.65	0.17	0.10	0.00	1.85	2.77	33.2

**Selected Physical and Chemical Properties for Site 167.**

**County - Bertie**

**Soil series - Rains**

**Part A. Selected Physical Properties.**

Horizon	Depth Inches	BD g cm <sup>-3</sup>	Available Water in in <sup>-1</sup>	Depth to Bt horizon in	Depth to Water Table in
Ap	8	1.59	0.004	18	1
Eg	10	1.25	0.214		
Btg	32	1.70	0.052		

**Part B. Particle Size Analysis by Hydrometer Method**

Horizon	Depth Inches	VC	C	Sand M	F	VF	Total	Silt	Clay
					g kg <sup>-1</sup>				
Ap	8	3	30	225	436	77	771	149	80
Eg	10	1	23	273	433	58	788	126	86
Btg	32	2	25	288	411	48	774	59	167

**Part C. Selected Chemical Properties.**

Horizon	Depth Inches	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS %
					cmoles kg <sup>-1</sup>				
Ap	8	5.45	0.85	0.42	0.1	0.00	0.2	1.57	87.3
Eg	10	5.28	0.5	0.33	0.05	0.00	0.3	1.18	74.6
Btg	32	5.51	0.3	0.17	0.08	0.00	0.4	0.95	57.9

**Selected Physical and Chemical Properties for Site 168.**

**County - Bertie**

**Soil series - Rains**

**Part A. Selected Physical Properties.**

Horizon	Depth Inches	BD g cm <sup>-3</sup>	Available Water in in <sup>-1</sup>	Depth to Bt horizon in	Depth to Water Table in
Ap	6	1.61	0.068	12	1
Eg	6	1.68	0.021		
Btg	24	1.74	0.002		

**Part B. Particle Size Analysis by Hydrometer Method**

Horizon	Depth Inches	VC	C	Sand M	F	VF	Total	Silt	Clay
					g kg <sup>-1</sup>				
Ap	6	5	30	191	380	75	681	217	102
Eg	6	7	36	186	342	78	649	249	102
Btg	24	2	30	271	390	58	751	88	161

**Part C. Selected Chemical Properties.**

Horizon	Depth Inches	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS %
					cmoles kg <sup>-1</sup>				
Ap	6	5.29	0.80	0.50	0.13	0.00	0.25	1.68	85.1
Eg	6	5.14	0.70	0.58	0.08	0.00	1.15	2.51	54.2
Btg	24	5.23	0.45	0.25	0.05	0.00	1.10	1.85	40.5

**Selected Physical and Chemical Properties for Site 169.**

**County - Bertie**

**Soil series - Lynchburg**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	6	1.70	0.088	12	30
E	6	1.75	0.094		
Bt	18	1.54	0.047		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	6	5	29	215	435	125	809	143	48
E	6	4	28	209	387	81	709	237	54
Bt	18	4	33	200	289	91	617	240	143

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	6	5.37	0.55	0.33	0.08	0.00	0.25	1.21	79.3
E	6	5.47	0.40	0.25	0.08	0.00	0.50	1.23	59.3
Bt	18	5.26	0.75	0.58	0.10	0.00	0.50	1.93	74.1

**Selected Physical and Chemical Properties for Site 171.**

**County - Bertie**

**Soil series - Lynchburg**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.83	0.076	12	30
E	4	1.89	0.084		
Bt	24	1.66	0.157		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	3	22	180	367	72	644	297	59
E	4	1	29	202	388	79	699	241	60
Bt	24	1	32	188	375	77	673	154	173

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	5.22	0.30	0.08	0.08	0.00	0.85	1.31	35.1
E	4	5.08	0.35	0.08	0.05	0.00	0.75	1.23	39.0
Bt	24	4.94	1.40	0.17	0.05	0.00	3.05	4.67	34.7

**Selected Physical and Chemical Properties for Site 172.**

**County - Bertie**

**Soil series - Norfolk**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	6	1.73	0.079	12	60
E	6	1.86	0.084		
Bt	28	1.60	0.119		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	6	1	17	127	266	89	500	441	59
E	6	2	20	138	334	78	572	368	60
Bt	28	2	21	135	338	83	579	257	164

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	6	5.42	0.40	0.17	0.05	0.00	0.15	0.77	80.5
E	6	5.34	0.45	0.50	0.10	0.00	0.15	1.20	87.5
Bt	28	5.24	0.45	0.25	0.08	0.00	0.75	1.53	51.0



**Selected Physical and Chemical Properties for Site 174.**

**County - Bertie**

**Soil series - Goldsboro**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.58	0.017	8	38
Bt <sub>1</sub>	22	1.76	0.028		
Bt <sub>2</sub>	8	1.76	0.223		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	4	15	131	320	90	560	360	80
Bt <sub>1</sub>	22	2	30	248	428	98	806	9	185
Bt <sub>2</sub>	8	3	18	158	438	111	728	1	271

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	4.87	0.20	0.50	0.08	0.00	0.45	1.23	63.4
Bt <sub>1</sub>	22	4.38	0.15	0.17	0.08	0.00	3.40	3.80	10.5
Bt <sub>2</sub>	8	4.59	0.55	0.58	0.05	0.00	4.70	5.88	20.1

**Selected Physical and Chemical Properties for Site 175.**

**County - Bertie**

**Soil series - Goldsboro**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.51	0.005	8	30
Bt	22	1.64	0.189		
Btg	20	1.64	0.074		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	6	23	166	361	91	647	273	80
Bt	22	2	20	146	387	109	664	83	253
Btg	20	3	18	146	387	108	662	114	224

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	5.55	0.30	0.25	0.08	0.00	0.20	0.83	75.9
Bt	22	4.44	0.25	0.25	0.10	0.00	4.35	4.95	12.1
Btg	20	4.32	0.35	0.17	0.03	0.00	6.45	7.00	7.9

**Selected Physical and Chemical Properties for Site 176.**

**County - Bertie**

**Soil series - Norfolk**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	6	1.65	0.096	12	60
E	6	1.86	0.045		
Bt	24	1.67	0.118		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	6	3	18	142	341	82	586	355	59
E	6	1	20	177	353	46	597	377	26
Bt	24	1	22	179	350	72	624	191	185

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	6	6.47	0.20	0.08	0.05	0.00	0.20	0.53	62.3
E	6	6.01	0.15	0.08	0.08	0.00	0.35	0.66	47.0
Bt	24	4.62	0.60	0.33	0.10	0.00	2.15	3.18	32.4

**Selected Physical and Chemical Properties for Site 177.**

**County - Bertie**

**Soil series - Goldsboro**

**Part A. Selected Physical Properties.**

Horizon	Depth Inches	BD g cm <sup>-3</sup>	Available Water in in <sup>-1</sup>	Depth to Bt horizon in	Depth to Water Table in
Ap	6	1.59	0.001	6	20
Bt	14	1.63	0.232		
Btg	30	1.66	0.157		

**Part B. Particle Size Analysis by Hydrometer Method**

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
				g kg <sup>-1</sup>					
Ap	6	2	21	237	524	76	860	60	80
Bt	14	1	15	138	336	65	555	165	280
Btg	30	5	21	235	235	28	524	186	290

**Part C. Selected Chemical Properties.**

Horizon	Depth Inches	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS %
					cmoles kg <sup>-1</sup>				
Ap	6	5.45	0.15	0.08	0.08	0.00	0.30	0.61	50.8
Bt	14	4.17	0.60	0.50	0.15	0.00	4.45	5.70	21.9
Btg	30	4.04	0.55	0.50	0.08	0.00	6.75	7.88	14.3

**Selected Physical and Chemical Properties for Site 178.**

**County - Bertie**

**Soil series - Norfolk**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	6	1.58	0.104	12	60
E	6	1.75	0.124		
Bt	28	1.58	0.203		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	6	4	29	287	477	88	885	68	47
E	6	8	41	140	251	55	495	452	53
Bt	28	8	41	140	251	55	495	301	204

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	6	5.71	0.15	0.08	0.05	0.00	0.15	0.43	65.1
E	6	4.59	0.10	0.08	0.08	0.00	1.15	1.41	18.4
Bt	28	4.30	0.25	0.25	0.10	0.00	4.75	5.35	11.2

**Selected Physical and Chemical Properties for Site 179.**

**County - Bertie**

**Soil series - Goldsboro**

**Part A. Selected Physical Properties.**

Horizon	Depth Inches	BD g cm <sup>-3</sup>	Available Water in in <sup>-1</sup>	Depth to Bt horizon in	Depth to Water Table in
Ap	4	1.55	0.064	12	32
E	8	1.75	0.013		
Bt	21	1.70	0.223		

**Part B. Particle Size Analysis by Hydrometer Method**

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
		g kg <sup>-1</sup>							
Ap	4	5	52	256	393	81	787	125	88
E	8	18	44	162	265	43	532	370	98
Bt	21	18	44	162	265	43	532	244	224

**Part C. Selected Chemical Properties.**

Horizon	Depth Inches	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS %
		cmoles kg <sup>-1</sup>							
Ap	4	5.60	0.40	0.25	0.08	0.00	0.20	0.93	78.5
E	8	4.65	0.10	0.17	0.08	0.00	1.55	1.90	18.4
Bt	21	4.45	0.10	0.42	0.08	0.00	4.55	5.15	11.7

**Selected Physical and Chemical Properties for Site 180.**

**County - Bertie**

**Soil series - Lynchburg**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.56	0.015	18	18
E	10	1.70	0.019		
Btg	22	1.67	0.028		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	8	62	239	445	103	857	118	25
E	8	17	86	263	358	96	820	150	30
Btg	22	33	129	241	242	29	674	156	170

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	6.31	1.70	1.17	0.10	0.00	0.30	3.27	90.8
E	8	5.46	0.25	0.08	0.10	0.00	0.45	0.88	48.9
Btg	22	4.45	0.65	0.83	0.10	0.00	4.65	6.23	25.4

**Selected Physical and Chemical Properties for Site 181.**

**County - Bertie**

**Soil series - Goldsboro**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	6	1.74	0.070	6	18
Bt	12	1.71	0.069		
Btg	32	1.58	0.142		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	6	9	4	143	265	65	486	314	200
Bt	12	6	35	179	430	87	737	113	150
Btg	32	6	35	179	430	87	737	-47	310

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	6	6.37	2.35	2.92	0.41	0.00	4.85	10.53	53.9
Bt	12	6.16	1.25	1.25	0.38	0.00	0.40	3.28	87.8
Btg	32	4.19	1.40	2.67	0.18	0.00	7.75	12.00	35.4



**Selected Physical and Chemical Properties for Site 182.**

**County - Bertie**

**Soil series - Lynchburg**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.71	0.091	8	18
Bt	10	1.49	0.082		
Btg	18	1.78	0.068		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	12	55	101	326	61	555	410	35
Bt	10	4	5	57	240	55	361	324	315
Btg	18	3	21	54	246	60	384	374	242

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	6.38	7.55	4.08	0.33	0.00	0.20	12.16	98.4
Bt	10	5.02	3.75	3.67	0.33	0.00	3.00	10.75	72.1
Btg	18	4.56	1.60	1.25	0.15	0.00	5.25	8.25	36.4

**Selected Physical and Chemical Properties for Site 195.**

**County - Bertie**

**Soil series - Wagram**

**Part A. Selected Physical Properties.**

Horizon	Depth Inches	BD g cm <sup>-3</sup>	Available Water in in <sup>-1</sup>	Depth to Bt horizon in	Depth to Water Table in
Ap	8	1.54	0.073	26	40
E	18	1.77	0.057		
Bt	12	1.60	0.174		

**Part B. Particle Size Analysis by Hydrometer Method**

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
				g kg <sup>-1</sup>					
Ap	8	6	52	253	341	147	799	151	50
E	18	3	32	234	337	102	708	242	50
Bt	12	1	21	171	250	80	523	252	225

**Part C. Selected Chemical Properties.**

Horizon	Depth Inches	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS %
					cmoles kg <sup>-1</sup>				
Ap	8	6.82	1.70	0.92	0.08	0.00	0.20	2.90	93.1
E	18	5.49	0.60	0.42	0.05	0.00	0.45	1.52	70.4
Bt	12	4.50	1.10	1.83	0.13	0.00	3.45	6.51	47.0

**Selected Physical and Chemical Properties for Site 196.**

**County - Bertie**

**Soil series - Wagram**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	6	1.40	0.067	22	46
E	16	1.77	0.059		
Bt	24	1.71	0.096		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	6	7	60	273	375	115	830	120	50
E	16	9	55	212	304	108	688	257	55
Bt	24	9	66	206	300	98	679	216	105

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	6	6.63	1.60	1.17	0.05	0.00	0.30	3.12	90.4
E	16	5.14	0.20	0.08	0.03	0.00	0.30	0.61	50.8
Bt	24	4.79	1.85	1.50	0.18	0.00	2.30	5.83	60.5

**Selected Physical and Chemical Properties for Site 200.**

**County - Bertie**

**Soil series - Wagram**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	6	1.49	0.096	22	42
E	16	1.80	0.043		
Bt	14	1.72	0.060		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	6	6	53	264	329	126	778	162	60
E	16	9	62	237	308	86	702	237	61
Bt	14	12	53	211	236	90	602	313	85

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	6	6.56	2.75	2.00	0.13	0.00	0.20	5.08	96.1
E	16	6.33	1.70	1.67	0.18	0.00	0.25	3.80	93.4
Bt	14	4.86	1.80	1.83	0.20	0.00	2.75	6.58	58.2

**Selected Physical and Chemical Properties for Site 201.**

**County - Bertie**

**Soil series - Rains**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.72	0.019	14	1
Eg	6	1.71	0.041		
Btg	34	1.59	0.073		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	31	110	195	187	54	577	348	75
Eg	6	37	408	136	137	59	777	143	80
Btg	34	11	85	113	107	50	366	524	110

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	5.18	2.60	2.58	0.13	0.00	0.55	5.86	90.6
Eg	6	4.61	1.55	2.25	0.08	0.00	2.25	6.13	63.3
Btg	34	4.29	0.60	1.00	0.08	0.00	2.25	3.93	42.7

**Selected Physical and Chemical Properties for Site 202.**

**County - Bertie**

**Soil series - Wagram**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	6	1.54	0.035	20	44
E	14	1.77	0.043		
Bt	24	1.60	0.011		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	6	4	26	292	362	130	814	136	50
E	14	2	4	186	336	134	662	283	55
Bt	24	2	4	199	318	133	656	219	125

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	6	5.63	0.95	0.25	0.10	0.00	0.40	1.70	76.5
E	14	4.91	0.50	0.17	0.08	0.00	1.10	1.85	40.5
Bt	24	4.26	0.60	1.42	0.10	0.00	4.90	7.02	30.2

**Selected Physical and Chemical Properties for Site 203.**

**County - Bertie**

**Soil series - Wagram**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.4	0.022	24	42
E	18	1.77	0.035		
Bt	16	1.71	0.043		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	11	77	337	337	106	868	113	19
E	18	12	85	259	272	80	708	270	22
Bt	16	14	88	248	277	80	707	208	85

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	6.15	1.85	0.67	0.05	0.00	0.25	2.82	91.1
E	18	5.58	0.75	0.33	0.05	0.00	0.40	1.53	73.9
Bt	16	4.48	1.30	0.50	0.13	0.00	3.05	4.98	38.8

**Selected Physical and Chemical Properties for Site 204.**

**County - Bertie**

**Soil series - Rains**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	6	1.90	0.108	14	6
Eg	8	1.76	0.119		
Btg	22	1.80	0.141		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	6	11	51	213	319	107	701	189	110
Eg	8	18	77	183	260	93	631	267	102
Btg	22	19	69	190	266	90	634	175	191

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	6	5.23	0.55	0.50	0.08	0.00	0.20	1.33	85.0
Eg	8	4.44	0.30	0.33	0.05	0.00	0.60	1.28	53.1
Btg	22	4.35	0.10	0.17	0.05	0.00	2.75	3.07	10.4



**Selected Physical and Chemical Properties for Site 205.**

**County - Bertie**

**Soil series - Rains**

**Part A. Selected Physical Properties.**

Horizon	Depth Inches	BD g cm <sup>-3</sup>	Available Water in in <sup>-1</sup>	Depth to Bt horizon in	Depth to Water Table in
Ap	6	1.61	0.127	14	6
Eg	8	1.68	0.153		
Btg	22	1.12	0.138		

**Part B. Particle Size Analysis by Hydrometer Method**

Horizon	Depth Inches	VC	C	Sand M	F	VF	Total	Silt	Clay
					g kg <sup>-1</sup>				
Ap	6	18	63	212	269	88	650	210	140
Eg	8	5	24	182	520	79	810	80	110
Btg	22	6	31	208	477	64	786	34	180

**Part C. Selected Chemical Properties.**

Horizon	Depth Inches	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS %
					cmoles kg <sup>-1</sup>				
Ap	6	6.09	0.75	0.83	0.05	0.00	0.10	1.73	94.2
Eg	8	4.63	0.30	0.42	0.05	0.00	2.45	3.22	23.9
Btg	22	4.45	0.15	0.08	0.05	0.00	3.70	3.98	7.0

**Selected Physical and Chemical Properties for Site 206.**

**County - Bertie**

**Soil series - Rains**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	4	1.90	0.191	16	1
Eg	12	1.76	0.106		
Btg	34	1.10	0.118		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	4	6	39	216	396	53	710	209	81
Eg	12	5	44	180	437	95	761	213	26
Btg	34	6	40	188	433	90	757	68	175

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	4	4.68	0.25	0.42	0.13	0.00	1.85	2.65	30.2
Eg	12	4.30	0.05	0.00	0.03	0.00	2.20	2.28	3.5
Btg	34	4.06	0.05	0.08	0.03	0.00	5.45	5.61	2.9

**Selected Physical and Chemical Properties for Site 207.**

**County - Bertie**

**Soil series - Rains**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	4	1.72	0.058	4	1
Btg <sub>1</sub>	24	1.71	0.101		
Btg <sub>2</sub>	22	1.59	0.079		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	4	13	1	111	277	126	528	447	25
Btg <sub>1</sub>	24	7	35	132	279	102	555	365	80
Btg <sub>2</sub>	22	7	35	132	279	102	555	325	120

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	4	5.57	2.20	5.08	0.05	0.00	0.35	7.68	95.4
Btg <sub>1</sub>	24	4.47	0.00	0.00	0.03	0.00	2.30	2.33	1.3
Btg <sub>2</sub>	22	4.51	0.05	0.08	0.03	0.00	5.20	5.36	3.0

**Selected Physical and Chemical Properties for Site 208.**

**County - Bertie**

**Soil series - Rains**

**Part A. Selected Physical Properties.**

Horizon	Depth Inches	BD g cm <sup>-3</sup>	Available Water in in <sup>-1</sup>	Depth to Bt horizon in	Depth to Water Table in
Ap	6	1.73	0.079	6	1
Btg <sub>1</sub>	22	1.71	0.102		
Btg <sub>2</sub>	22	1.59	0.063		

**Part B. Particle Size Analysis by Hydrometer Method**

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
		g kg <sup>-1</sup>							
Ap	6	6	25	77	177	53	338	637	25
Btg <sub>1</sub>	22	9	30	128	263	119	549	346	105
Btg <sub>2</sub>	22	5	4	80	251	61	401	464	135

**Part C. Selected Chemical Properties.**

Horizon	Depth Inches	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS %
		cmoles kg <sup>-1</sup>							
Ap	6	5.57	3.05	6.25	0.08	0.00	0.25	9.63	97.4
Btg <sub>1</sub>	22	4.71	0.05	0.08	0.03	0.00	2.55	2.71	5.9
Btg <sub>2</sub>	22	4.69	0.00	0.33	0.03	0.00	4.30	4.66	7.7

**Selected Physical and Chemical Properties for Site 209.**

**County - Bertie**

**Soil series - Rains**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	6	1.61	0.122	6	1
Btg <sub>1</sub>	12	1.68	0.093		
Btg <sub>2</sub>	18	1.12	0.101		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	6	22	26	78	290	81	497	478	25
Btg <sub>1</sub>	12	22	56	162	251	53	544	381	75
Btg <sub>2</sub>	18	16	56	165	251	80	568	302	130

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	6	5.07	3.00	0.67	0.08	0.00	1.75	5.50	68.2
Btg <sub>1</sub>	12	4.47	0.15	0.58	0.05	0.00	4.90	5.68	13.7
Btg <sub>2</sub>	18	4.35	0.10	0.33	0.05	0.00	5.15	5.63	8.5

**Selected Physical and Chemical Properties for Site 214.**

**County - Bertie**

**Soil series - Norfolk**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	6	1.69	0.239	14	60
E	8	1.77	0.197		
Bt	26	1.61	0.187		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	6	18	127	197	338	79	759	216	25
E	8	13	82	158	265	53	571	399	30
Bt	26	16	93	155	255	53	572	268	160

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	6	6.02	3.30	1.75	0.10	0.00	0.25	5.40	95.4
E	8	5.71	1.80	1.00	0.08	0.00	0.45	3.33	86.5
Bt	26	4.95	3.50	1.67	0.15	0.00	1.50	6.82	78.0

**Selected Physical and Chemical Properties for Site 217.**

**County - Bertie**

**Soil series - Norfolk**

**Part A. Selected Physical Properties.**

Horizon	Depth Inches	BD g cm <sup>-3</sup>	Available Water in in <sup>-1</sup>	Depth to Bt horizon in	Depth to Water Table in
Ap	6	1.76	0.173	14	60
E	8	1.81	0.247		
Bt	26	1.48	0.156		

**Part B. Particle Size Analysis by Hydrometer Method**

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
				g kg <sup>-1</sup>					
Ap	6	10	107	186	381	55	739	231	30
E	8	13	77	129	331	85	635	333	32
Bt	26	16	61	79	201	92	449	321	230

**Part C. Selected Chemical Properties.**

Horizon	Depth Inches	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS %
					cmoles kg <sup>-1</sup>				
Ap	6	5.63	2.20	1.00	0.15	0.00	0.27	3.62	92.5
E	8	5.72	2.30	1.17	0.18	0.00	0.35	4.00	91.3
Bt	26	5.06	7.00	4.42	0.46	0.00	1.25	13.13	90.5

**Selected Physical and Chemical Properties for Site 218.**

**County - Bertie**

**Soil series - Goldsboro**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.47	0.209	8	36
Bt	28	1.54	0.196		
Btg	14	1.54	0.074		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	11	58	137	337	78	621	349	30
Bt	28	14	54	102	242	53	465	225	310
Btg	14	8	58	117	289	62	534	266	200

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	5.62	5.15	3.08	0.36	0.00	0.25	8.84	97.2
Bt	28	4.44	4.65	2.17	0.20	0.00	3.40	10.42	67.4
Btg	14	4.45	2.85	1.75	0.10	0.00	3.55	8.25	57.0



**Selected Physical and Chemical Properties for Site 219.**

**County - Bertie**

**Soil series - Goldsboro**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	6	1.54	0.077	6	30
Bt	24	1.69	0.105		
Btg	20	1.69	0.029		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	6	15	40	113	361	117	646	323	31
Bt	24	7	12	62	228	65	374	299	327
Btg	20	3	21	53	264	54	395	375	230

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	6	5.80	2.85	3.08	0.28	0.00	0.40	6.61	93.9
Bt	24	4.67	4.50	2.33	0.15	0.00	4.05	11.03	63.3
Btg	20	4.48	3.80	1.42	0.10	0.00	5.20	10.52	50.6

**Selected Physical and Chemical Properties for Site 220.**

**County - Bertie**

**Soil series - Goldsboro**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.70	0.045	8	32
Bt	24	1.81	0.113		
Btg	18	1.81	0.103		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	7	38	131	383	55	614	361	25
Bt	24	4	36	77	254	105	476	214	310
Btg	18	2	14	62	370	43	491	149	360

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	5.71	2.10	2.00	0.08	0.00	0.35	4.53	92.3
Bt	24	4.47	1.75	0.83	0.13	0.00	4.90	7.61	35.6
Btg	18	4.31	3.50	1.50	0.15	0.00	6.25	11.40	45.2

**Selected Physical and Chemical Properties for Site 221.**

**County - Bertie**

**Soil series - Lynchburg**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	6	1.65	0.055	20	1
Bg	14	1.82	0.086		
Btg	30	1.54	0.130		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	6	3	54	163	358	80	658	317	25
Bg	14	7	30	112	288	76	513	332	155
Btg	30	7	29	86	261	62	445	375	180

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	6	5.53	2.35	3.33	0.08	0.00	0.45	6.21	92.8
Bg	14	4.72	0.45	0.58	0.05	0.00	2.75	3.83	28.2
Btg	30	4.64	0.65	0.25	0.05	0.00	5.70	6.65	14.3

**Selected Physical and Chemical Properties for Site 222**

**County - Bertie**

**Soil series - Lynchburg**

**Part A. Selected Physical Properties.**

Horizon	Depth Inches	BD g cm <sup>-3</sup>	Available Water in in <sup>-1</sup>	Depth to Bt horizon in	Depth to Water Table in
Ap	8	1.77	0.081	8	36
Bt	28	1.53	0.086		
Btg	24	1.53	0.081		

**Part B. Particle Size Analysis by Hydrometer Method**

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
				g kg <sup>-1</sup>					
Ap	8	7	46	164	407	90	714	261	25
Bt	28	6	37	97	271	62	473	267	260
Btg	24	7	39	103	284	71	504	291	205

**Part C. Selected Chemical Properties.**

Horizon	Depth Inches	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS %
					cmoles kg <sup>-1</sup>				
Ap	8	5.16	2.25	0.75	0.15	0.00	0.80	3.95	79.7
Bt	28	4.59	3.40	1.33	0.18	0.00	4.35	9.26	53.0
Btg	24	4.25	1.50	1.00	0.10	0.00	4.85	7.45	34.9

**Selected Physical and Chemical Properties for Site 223.**

**County - Bertie**

**Soil series - Goldsboro**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	6	1.45	0.092	6	30
Bt	24	1.71	0.054		
Btg	12	1.71	0.089		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	6	12	56	103	297	79	547	428	25
Bt	24	9	38	102	260	56	465	275	260
Btg	12	9	36	80	230	51	406	289	305

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	6	4.57	2.65	1.00	0.26	0.00	1.05	4.96	78.8
Bt	24	4.39	4.10	2.08	0.28	0.00	3.95	10.41	62.1
Btg	12	4.32	2.45	1.83	0.18	0.00	5.15	9.61	46.4

**Selected Physical and Chemical Properties for Site 224.**

**County - Bertie**

**Soil series - Lynchburg**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	6	1.43	0.119	6	18
Bt	12	1.84	0.116		
Btg	22	1.59	0.057		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	6	9	42	87	160	34	332	613	55
Bt	12	7	37	88	228	52	412	328	260
Btg	22	7	40	87	211	53	398	397	205

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	6	5.73	4.85	5.33	0.20	0.00	0.40	10.78	96.3
Bt	12	4.52	0.40	1.42	0.10	0.00	5.35	7.27	26.4
Btg	22	4.44	0.20	1.08	0.05	0.00	5.95	7.28	18.3

**Selected Physical and Chemical Properties for Site 225.**

**County - Bertie**

**Soil series - Norfolk**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	4	1.65	0.059	13	60
E	9	1.76	0.047		
Bt	27	1.73	0.126		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	4	31	111	191	296	72	701	274	25
E	9	26	103	206	290	66	691	299	10
Bt	27	36	139	175	247	57	654	196	150

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	4	5.06	5.90	3.67	0.15	0.00	0.25	9.97	97.5
E	9	4.74	0.55	0.33	0.05	0.00	1.35	2.28	40.8
Bt	27	4.66	0.15	1.25	0.05	0.00	2.95	4.40	33.0

**Selected Physical and Chemical Properties for Site 226.**

**County - Bertie**

**Soil series - Norfolk**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	6	1.75	0.019	16	60
E	10	1.63	0.049		
Bt	30	1.62	0.161		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	6	27	106	162	260	61	616	356	28
E	10	10	114	160	233	90	607	361	32
Bt	30	29	102	137	206	57	531	339	130

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	6	5.44	6.40	5.92	0.26	0.00	0.55	13.13	95.8
E	10	4.60	2.00	1.83	0.20	0.00	1.85	5.88	68.5
Bt	30	4.53	0.20	1.33	0.08	0.00	2.95	4.56	35.3



**Selected Physical and Chemical Properties for Site 227.**

**County - Bertie**

**Soil series - Rains**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	6	1.90	0.101	14	1
Eg	8	1.75	0.088		
Btg	26	1.10	0.048		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	6	16	57	102	171	37	383	542	75
Eg	8	8	35	96	209	47	395	523	82
Btg	26	7	50	101	262	71	491	379	130

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	6	5.66	3.10	3.92	0.13	0.00	0.65	7.80	91.7
Eg	8	4.77	0.15	0.08	0.05	0.00	2.35	2.63	10.6
Btg	26	4.65	0.80	0.83	0.15	0.00	3.65	5.43	32.8

**Selected Physical and Chemical Properties for Site 228.**

County - Bertie

Soil series - Norfolk

**Part A. Selected Physical Properties.**

Horizon	Depth Inches	BD g cm <sup>-3</sup>	Available Water in in <sup>-1</sup>	Depth to Bt horizon in	Depth to Water Table in
Ap	8	1.66	0.069	14	60
E	14	1.85	0.064		
Bt	26	1.56	0.061		

**Part B. Particle Size Analysis by Hydrometer Method**

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
		g kg <sup>-1</sup>							
Ap	8	22	82	136	312	84	636	239	125
E	14	12	70	103	234	63	482	388	130
Bt	26	35	66	86	212	62	461	284	255

**Part C. Selected Chemical Properties.**

Horizon	Depth Inches	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS %
		cmoles kg <sup>-1</sup>							
Ap	8	6.29	3.40	2.67	0.15	0.00	0.20	6.42	96.9
E	14	5.10	3.30	4.08	0.10	0.00	2.15	9.63	77.7
Bt	26	4.62	3.30	1.02	0.18	0.00	3.70	8.20	54.9

**Selected Physical and Chemical Properties for Site 238.**

**County - Sussex**

**Soil series - Rains**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	10	1.72	0.078	16	16
E	6	1.71	0.011		
Btg	20	1.59	0.028		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	10	5	31	159	455	88	738	237	25
E	6	4	18	55	244	149	470	513	17
Btg	20	4	18	45	255	149	471	385	144

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	10	6.72	0.60	0.33	0.05	0.00	0.15	1.13	86.7
E	6	5.44	0.30	0.25	0.05	0.00	0.25	0.85	70.6
Btg	20	4.35	0.20	0.25	0.08	0.00	3.85	4.38	12.1

**Selected Physical and Chemical Properties for Site 239.**

County - Sussex

Soil series - Rains

**Part A. Selected Physical Properties.**

Horizon	Depth Inches	BD g cm <sup>-3</sup>	Available Water in in <sup>-1</sup>	Depth to Bt horizon in	Depth to Water Table in
Ap	8	1.49	0.134	14	1
Eg	6	1.83	0.127		
Btg	22	1.69	0.073		

**Part B. Particle Size Analysis by Hydrometer Method**

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
		g kg <sup>-1</sup>							
Ap	8	2	10	69	375	146	602	371	27
Eg	6	66	85	190	230	77	648	342	10
Btg	22	25	88	185	212	77	587	348	65

**Part C. Selected Chemical Properties.**

Horizon	Depth Inches	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS %
		cmoles kg <sup>-1</sup>							
Ap	8	6.35	1.05	0.33	0.05	0.00	0.10	1.53	93.5
Eg	6	5.61	0.40	0.17	0.05	0.00	0.25	0.87	71.3
Btg	22	4.79	0.15	0.17	0.03	0.00	2.15	2.50	14.0

**Selected Physical and Chemical Properties for Site 240.**

County - Sussex

Soil series - Goldsboro

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	4	1.78	0.186	4	33
Bt <sub>1</sub>	8	1.75	0.043		
Bt <sub>2</sub>	21	1.75	0.085		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	4	29	95	179	217	51	571	373	56
Bt <sub>1</sub>	8	4	26	83	220	161	494	341	165
Bt <sub>2</sub>	21	4	22	88	200	181	495	336	169

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	4	5.39	0.85	0.58	0.10	0.00	0.45	1.98	77.3
Bt <sub>1</sub>	8	5.02	0.95	0.92	0.10	0.00	1.25	3.22	61.2
Bt <sub>2</sub>	21	4.49	0.45	0.67	0.05	0.00	3.45	4.62	25.3

**Selected Physical and Chemical Properties for Site 241.**

County - Sussex

Soil series - Rains

**Part A. Selected Physical Properties.**

Horizon	Depth Inches	BD g cm <sup>-3</sup>	Available Water in in <sup>-1</sup>	Depth to Bt horizon in	Depth to Water Table in
Ap	10	1.48	0.105	16	1
Eg	6	1.60	0.041		
Btg	22	1.66	0.045		

**Part B. Particle Size Analysis by Hydrometer Method**

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
				g kg <sup>-1</sup>					
Ap	10	3	21	69	197	125	415	555	30
Eg	6	3	27	132	423	84	669	325	6
Btg	22	6	21	154	389	71	641	234	125

**Part C. Selected Chemical Properties.**

Horizon	Depth Inches	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS %
					cmoles kg <sup>-1</sup>				
Ap	10	6.19	0.25	0.33	0.05	0.00	0.10	0.73	86.3
Eg	6	5.94	0.30	0.17	0.03	0.00	0.15	0.65	76.9
Btg	22	4.62	0.80	0.33	0.08	0.00	3.15	4.36	27.8

**Selected Physical and Chemical Properties for Site 242.**

County - Sussex

Soil series - Lynchburg

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	10	1.45	0.021	16	16
E	6	1.66	0.079		
Btg	24	1.88	0.111		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	10	5	34	138	369	127	673	277	50
E	6	1	16	92	246	69	424	546	30
Btg	24	3	19	99	310	52	483	319	198

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	10	5.92	0.55	0.08	0.08	0.00	0.15	0.86	82.6
E	6	5.86	0.65	0.25	0.03	0.00	0.20	1.13	82.3
Btg	24	4.78	0.55	0.50	0.08	0.00	3.00	4.13	27.4

**Selected Physical and Chemical Properties for Site 243.**

**County - Sussex**

**Soil series - Norfolk**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	4	1.60	0.001	14	60
E	10	1.79	0.017		
Bt	24	1.63	0.082		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	4	4	43	201	466	85	799	161	40
E	10	5	55	166	387	78	691	292	17
Bt	24	4	45	188	355	61	653	207	140

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	4	5.59	0.20	0.17	0.05	0.00	0.40	0.82	51.2
E	10	5.41	0.10	0.08	0.03	0.00	0.60	0.81	25.9
Bt	24	4.83	0.15	0.17	0.05	0.00	2.90	3.27	11.3



**Selected Physical and Chemical Properties for Site 244.**

**County - Sussex      Soil series - Wagram**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	6	1.62	0.059	26	60
E	20	1.70	0.001		
Bt	24	1.68	0.062		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	6	0	18	155	565	113	851	124	25
E	20	2	31	163	425	109	730	255	15
Bt	24	2	34	178	433	56	703	115	182

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	6	5.45	0.15	0.08	0.05	0.00	0.45	0.73	38.4
E	20	5.75	0.15	0.08	0.03	0.00	0.40	0.66	39.4
Bt	24	5.15	0.50	0.42	0.08	0.00	1.40	2.40	41.7

**Selected Physical and Chemical Properties for Site 245.**

**County - Sussex**

**Soil series - Norfolk**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	6	1.62	0.207	14	60
E	8	1.81	0.009		
Bt	26	1.83	0.086		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	6	2	26	153	477	91	749	201	50
E	8	4	31	161	421	98	715	249	36
Bt	26	4	33	166	418	90	711	111	178

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	6	5.25	0.25	0.17	0.08	0.00	0.50	1.00	50.0
E	8	5.50	0.25	0.25	0.10	0.00	0.35	0.95	63.2
Bt	26	4.60	0.15	0.33	0.05	0.00	3.10	3.63	14.6

**Selected Physical and Chemical Properties for Site 246.**

**County - Sussex**

**Soil series - Norfolk**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	6	1.66	0.172	10	60
E	4	1.86	0.111		
Bt	25	1.66	0.292		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	6	2	13	75	500	182	772	176	52
E	4	1	11	51	349	143	555	393	52
Bt	25	2	12	51	333	88	486	298	216

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	6	4.80	0.05	0.00	0.05	0.00	1.05	1.15	8.7
E	4	5.25	0.15	0.08	0.08	0.00	0.75	1.06	29.2
Bt	25	4.60	0.75	0.33	0.08	0.00	3.05	4.21	27.6

**Selected Physical and Chemical Properties for Site 247.**

**County - Sussex**

**Soil series - Goldsboro**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.77	0.124	8	36
Bt	28	1.75	0.112		
Btg	14	1.76	0.105		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	5	10	22	121	195	353	535	112
Bt	28	1	2	6	92	208	309	463	228
Btg	14	1	11	66	122	150	350	443	207

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	6.25	1.65	1.08	0.13	0.00	0.15	3.01	95.0
Bt	28	4.90	0.50	0.58	0.08	0.00	2.75	3.91	29.7
Btg	14	4.75	0.40	0.50	0.08	0.00	3.95	4.93	19.9

**Selected Physical and Chemical Properties for Site 248.**

County - Sussex

Soil series - Goldsboro

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	6	1.78	0.125	6	30
Bt	24	1.75	0.120		
Btg	20	1.75	0.111		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	6	3	9	21	120	222	375	538	87
Bt	24	1	2	6	91	209	309	451	240
Btg	20	1	2	6	99	222	330	472	198

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	6	6.40	1.90	1.17	0.13	0.00	0.15	3.35	95.5
Bt	24	5.00	0.70	0.75	0.10	0.00	4.70	6.25	24.8
Btg	20	4.75	0.30	0.33	0.05	0.00	3.25	3.93	17.3

**Selected Physical and Chemical Properties for Site 249.**

**County - Sussex      Soil series - Wagram**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	16	1.42	0.038	22	60
E	6	1.72	0.047		
Bt	16	1.09	0.081		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	16	2	15	102	646	73	838	110	52
E	6	1	8	67	509	60	645	300	55
BT	16	1	11	72	444	84	612	181	207

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	16	6.55	0.70	0.25	0.05	0.00	0.15	1.15	87.0
E	6	6.65	0.75	0.25	0.08	0.00	0.10	1.18	91.5
Bt	16	6.90	1.65	1.00	0.18	0.00	0.15	2.98	95.0

**Selected Physical and Chemical Properties for Site 250.**

**County - Sussex**

**Soil series - Wagram**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.42	0.039	26	60
E	18	1.72	0.047		
Bt	24	1.09	0.088		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	3	17	88	663	77	848	112	40
E	18	4	13	70	555	63	705	275	20
Bt	24	8	11	66	521	62	668	154	178

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	5.99	0.60	0.08	0.03	0.00	0.10	0.81	87.7
E	18	6.10	0.35	0.08	0.05	0.00	0.20	0.68	70.6
Bt	24	5.25	1.05	0.58	0.10	0.00	0.95	2.68	64.6

**Selected Physical and Chemical Properties for Site 251.**

**County - Sussex      Soil series - Wagram**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.62	0.065	20	60
E	12	1.70	0.059		
Bt	20	1.10	0.074		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	2	11	77	672	78	840	127	33
E	12	1	8	55	608	61	733	259	8
Bt	20	2	11	61	589	52	715	173	112

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	6.70	1.40	0.25	0.05	0.00	0.15	1.85	91.9
E	12	6.15	0.55	0.08	0.05	0.00	0.15	0.83	81.9
Bt	20	5.45	1.05	0.33	0.15	0.00	0.45	1.98	77.3



**Selected Physical and Chemical Properties for Site 252.**

County - Sussex

Soil series - Lynchburg

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	10	1.78	0.049	10	1
Btg <sub>1</sub>	18	1.75	0.117		
Btg <sub>2</sub>	22	1.75	0.119		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	10	3	24	104	542	125	798	159	43
Btg <sub>1</sub>	18	7	23	73	418	100	621	164	215
Btg <sub>2</sub>	22	8	23	77	441	102	651	129	220

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	10	6.85	0.75	0.17	0.05	0.00	0.14	1.11	87.4
Btg <sub>1</sub>	18	4.90	1.10	0.50	0.10	0.00	1.55	3.25	52.3
Btg <sub>2</sub>	22	4.70	1.20	0.67	0.10	0.00	1.77	3.74	52.7

**Selected Physical and Chemical Properties for Site 253.**

**County - Sussex**

**Soil series - Rains**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	6	1.52	0.234	14	1
Eg	8	1.89	0.125		
Btg	38	1.68	0.146		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	6	11	23	32	104	94	264	649	87
Eg	8	3	12	54	158	118	345	642	13
Btg	38	3	12	55	166	68	304	551	145

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	6	5.70	2.55	0.83	0.13	0.00	0.20	3.71	94.6
Eg	8	5.89	1.05	0.25	0.03	0.00	0.25	1.58	84.2
Btg	38	4.70	0.70	0.42	0.05	0.00	1.85	3.02	38.7

**Selected Physical and Chemical Properties for Site 254.**

County - Sussex

Soil series - Rains

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	6	1.49	0.052	6	1
Btg <sub>1</sub>	8	1.83	0.071		
Btg <sub>2</sub>	22	1.69	0.076		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	6	14	49	158	454	94	769	173	58
Btg <sub>1</sub>	8	12	48	144	427	88	719	181	100
Btg <sub>2</sub>	22	23	47	147	404	79	700	188	112

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	6	5.79	1.85	0.67	0.13	0.00	0.15	2.80	94.6
Btg <sub>1</sub>	8	5.62	1.15	1.00	0.13	0.00	0.16	2.44	93.4
Btg <sub>2</sub>	22	4.90	0.45	0.50	0.10	0.00	1.55	2.60	40.4

**Selected Physical and Chemical Properties for Site 255.**

**County - Suffolk**

**Soil series - Goldsboro**

**Part A. Selected Physical Properties.**

Horizon	Depth Inches	BD g cm <sup>-3</sup>	Available Water in in <sup>-1</sup>	Depth to Bt horizon in	Depth to Water Table in
Ap	10	1.78	0.045	10	38
Bt	28	1.75	0.069		
Btg	12	1.75	0.069		

**Part B. Particle Size Analysis by Hydrometer Method**

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
		g kg <sup>-1</sup>							
Ap	10	6	16	130	494	67	713	232	55
Bt	28	1	16	130	494	67	708	180	112
Btg	12	5	27	195	479	70	776	93	131

**Part C. Selected Chemical Properties.**

Horizon	Depth Inches	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS %
		cmoles kg <sup>-1</sup>							
Ap	10	4.90	0.20	0.00	0.03	0.00	1.45	1.68	13.7
Bt	28	4.85	0.65	0.25	0.10	0.00	1.25	2.25	44.4
Btg	12	4.75	0.70	0.25	0.05	0.00	1.65	2.65	37.7

**Selected Physical and Chemical Properties for Site 256.**

**County - Suffolk**

**Soil series - Goldsboro**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	12	1.67	0.040	12	30
Bt	18	1.76	0.060		
Btg	30	1.83	0.065		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	12	2	15	102	646	73	838	107	55
Bt	18	8	32	159	506	58	763	153	84
Btg	30	3	3	126	507	89	728	163	109

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	12	5.60	0.65	0.17	0.08	0.00	0.40	1.30	69.2
Bt	18	4.70	0.40	0.17	0.08	0.00	1.75	2.40	27.1
Btg	30	4.75	0.50	0.33	0.05	0.00	1.90	2.78	31.7

**Selected Physical and Chemical Properties for Site 257.**

**County - Suffolk**

**Soil series - Goldsboro**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	6	1.78	0.064	6	6
Btg <sub>1</sub>	24	1.74	0.053		
Btg <sub>2</sub>	10	1.75	0.079		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	6	8	40	92	286	72	498	477	25
Btg <sub>1</sub>	24	3	14	115	453	89	674	151	175
Btg <sub>2</sub>	10	13	62	211	228	60	574	246	180

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	6	5.46	3.40	1.50	0.18	0.00	0.45	5.53	91.9
Btg <sub>1</sub>	24	4.67	1.05	1.08	0.18	0.00	2.45	4.76	48.5
Btg <sub>2</sub>	10	4.75	0.55	0.75	0.15	0.00	2.55	4.00	36.3

**Selected Physical and Chemical Properties for Site 259.**

**County - Suffolk**

**Soil series - Wagram**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.32	0.041	23	60
E	15	1.74	0.072		
Bt	22	1.84	0.082		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	3	17	88	663	77	848	139	13
E	15	4	32	164	455	88	743	252	5
Bt	22	3	26	128	336	89	582	343	75

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	5.60	0.95	0.08	0.05	0.00	0.35	1.43	75.5
E	15	6.20	0.65	0.08	0.10	0.00	1.05	1.88	44.1
Bt	22	4.90	0.60	0.33	0.08	0.00	0.70	1.71	59.1

**Selected Physical and Chemical Properties for Site 260.**

**County - Suffolk**

**Soil series - Lynchburg**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.45	0.041	8	20
Bt	12	1.66	0.064		
Btg	14	1.88	0.048		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	17	89	254	316	71	747	228	25
Bt	12	16	53	186	233	66	554	246	200
Btg	14	9	36	80	230	51	406	464	130

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	5.14	0.60	0.08	0.18	0.00	1.50	2.36	36.4
Bt	12	4.83	3.30	2.00	0.28	0.00	2.20	7.78	71.7
Btg	14	4.51	1.25	1.75	0.20	0.00	3.20	6.40	50.0



**Selected Physical and Chemical Properties for Site 261.**

**County - Suffolk**

**Soil series - Goldsboro**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.78	0.065	8	33
Bt	25	1.77	0.096		
Btg	17	1.75	0.095		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	4	30	135	447	105	721	254	25
Bt	25	4	10	108	321	67	510	265	225
Btg	17	16	61	79	201	92	449	420	131

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	5.65	0.55	0.00	0.10	0.00	1.30	1.95	33.3
Bt	25	4.70	1.90	2.92	0.10	0.00	3.05	7.97	61.7
Btg	17	4.70	1.25	1.67	0.18	0.00	3.65	6.75	45.9

**Selected Physical and Chemical Properties for Site 262.**

**County - Suffolk**

**Soil series - Rains**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.48	0.069	8	1
Eg	6	1.60	0.053		
Btg	26	1.66	0.024		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	3	36	252	279	56	626	251	123
Eg	6	5	26	228	233	69	561	354	85
Btg	26	4	10	270	158	29	471	362	167

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	4.95	3.00	0.75	0.18	0.00	0.80	4.73	83.1
Eg	6	5.02	2.85	1.67	0.18	0.00	1.10	5.80	81.0
Btg	26	4.74	1.45	1.75	0.15	0.00	2.30	5.65	59.3

**Selected Physical and Chemical Properties for Site 263.**

**County - Suffolk**

**Soil series - Goldsboro**

**Part A. Selected Physical Properties.**

Horizon	Depth Inches	BD g cm <sup>-3</sup>	Available Water in in <sup>-1</sup>	Depth to Bt horizon in	Depth to Water Table in
Ap	14	1.60	0.052	14	28
Bt	14	1.70	0.113		
Btg	12	1.70	0.033		

**Part B. Particle Size Analysis by Hydrometer Method**

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
				g kg <sup>-1</sup>					
Ap	14	4	5	153	360	61	583	346	71
Bt	14	3	8	85	279	59	434	443	123
Btg	12	4	10	102	336	82	534	246	220

**Part C. Selected Chemical Properties.**

Horizon	Depth Inches	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS %
					cmoles kg <sup>-1</sup>				
Ap	14	5.08	1.65	0.33	0.26	0.00	1.20	3.44	65.1
Bt	14	4.82	2.95	2.83	0.26	0.00	2.60	8.64	69.9
Btg	12	4.58	1.55	2.08	0.15	0.00	3.85	7.63	49.5

**Selected Physical and Chemical Properties for Site 264.**

**County - Suffolk**

**Soil series - Norfolk**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.62	0.029	16	60
E	8	1.81	0.053		
Bt	22	1.83	0.053		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	2	11	77	672	78	840	130	30
E	8	46	184	202	234	70	736	247	17
Bt	22	17	63	125	377	101	683	226	91

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	5.30	0.20	0.08	0.03	0.00	0.70	1.01	30.7
E	8	4.90	0.40	0.08	0.08	0.00	0.65	1.21	46.3
Bt	22	6.07	0.65	0.25	0.13	0.00	0.25	1.28	80.5

**Selected Physical and Chemical Properties for Site 265.**

**County - Suffolk**

**Soil series - Lynchburg**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	10	1.45	0.061	16	16
E	6	1.68	0.031		
Btg	18	1.88	0.176		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	10	3	24	104	542	125	798	165	37
E	6	83	127	152	205	84	651	341	8
Btg	18	4	22	154	415	82	677	120	203

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	10	5.07	0.40	0.08	0.05	0.00	0.45	0.98	54.1
E	6	4.74	0.15	0.00	0.03	0.00	0.85	1.03	17.5
Btg	18	4.52	0.30	0.17	0.05	0.00	3.55	4.07	12.8

**Selected Physical and Chemical Properties for Site 266.**

County - Suffolk

Soil series - Norfolk

**Part A. Selected Physical Properties.**

Horizon	Depth Inches	BD g cm <sup>-3</sup>	Available Water in in <sup>-1</sup>	Depth to Bt horizon in	Depth to Water Table in
Ap	8	1.62	0.072	18	60
E	10	1.81	0.182		
Bt	20	1.83	0.065		

**Part B. Particle Size Analysis by Hydrometer Method**

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
		g kg <sup>-1</sup>							
Ap	8	11	23	32	104	94	264	696	40
E	10	17	78	249	208	42	594	380	26
Bt	20	2	17	135	457	62	673	91	236

**Part C. Selected Chemical Properties.**

Horizon	Depth Inches	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS %
		cmoles kg <sup>-1</sup>							
Ap	8	5.76	0.35	0.08	0.08	0.00	0.70	1.21	42.1
E	10	5.31	0.40	0.08	0.00	0.00	0.45	0.93	51.6
Bt	20	5.25	1.85	0.42	0.05	0.00	0.65	2.97	78.1

**Selected Physical and Chemical Properties for Site 267.**

**County - Suffolk      Soil series - Wagram**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.64	0.010	24	60
E	16	1.77	0.045		
Bt	26	1.69	0.089		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	11	60	212	439	95	817	70	113
E	16	5	52	152	420	103	732	246	22
Bt	26	8	32	104	430	108	682	165	153

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	5.18	0.30	0.00	0.03	0.00	1.10	1.43	23.1
E	16	4.95	0.30	0.00	0.03	0.00	0.75	1.08	30.6
Bt	26	5.69	3.35	1.33	0.15	0.00	0.30	5.13	94.2

**Selected Physical and Chemical Properties for Site 268.**

**County - Suffolk**

**Soil series - Norfolk**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.41	0.065	16	42
E	8	1.54	0.038		
Bt	26	1.59	0.064		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	3	18	76	207	60	364	533	103
E	8	3	19	154	436	86	698	217	85
Bt	26	4	27	155	441	106	733	100	167

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	5.37	2.00	1.50	0.31	0.00	0.95	4.76	80.0
E	8	5.24	1.25	0.67	0.23	0.00	0.80	2.95	72.9
Bt	26	4.98	3.25	2.67	0.43	0.00	2.10	8.45	75.1



**Selected Physical and Chemical Properties for Site 269.**  
**County - Suffolk      Soil series - Norfolk**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.54	0.065	14	45
E	6	1.75	0.077		
Bt	31	1.63	0.022		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	4	10	142	538	105	799	104	97
E	6	1	3	125	513	101	743	216	41
Bt	31	2	22	150	392	53	619	257	124

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	5.37	1.40	0.42	0.13	0.00	0.65	2.60	75.0
E	6	5.16	0.65	0.58	0.13	0.00	0.65	2.01	67.7
Bt	31	5.44	3.05	0.50	0.23	0.00	0.60	4.38	86.3

**Selected Physical and Chemical Properties for Site 270.**

**County - Suffolk**

**Soil series - Rains**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	14	1.37	0.101	20	1
Eg	6	1.71	0.093		
Btg	16	1.77	0.097		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	14	12	11	114	404	101	642	244	114
Eg	6	6	27	110	455	109	707	238	55
Btg	16	9	35	238	378	71	731	122	147

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	14	5.9	3.25	0.92	0.28	0.00	0.85	5.30	84.0
Eg	6	5.20	3.45	1.00	0.18	0.00	0.85	5.48	84.5
Btg	16	4.75	2.40	0.25	0.15	0.00	1.15	3.95	70.9

**Selected Physical and Chemical Properties for Site 271.**

**County - Suffolk**

**Soil series - Rains**

**Part A. Selected Physical Properties.**

Horizon	Depth Inches	BD g cm <sup>-3</sup>	Available Water in in <sup>-1</sup>	Depth to Bt horizon in	Depth to Water Table in
Ap	12	1.49	0.053	16	16
E	4	1.83	0.005		
Btg	30	1.69	0.034		

**Part B. Particle Size Analysis by Hydrometer Method**

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
		g kg <sup>-1</sup>							
Ap	12	6	31	135	411	104	687	233	80
E	4	2	17	60	179	40	298	662	40
Btg	30	9	22	131	435	79	676	200	124

**Part C. Selected Chemical Properties.**

Horizon	Depth Inches	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS %
		cmoles kg <sup>-1</sup>							
Ap	12	5.45	1.95	1.17	0.15	0.00	0.70	3.97	82.4
E	4	4.95	1.55	0.92	0.15	0.00	0.85	3.47	75.5
Btg	30	4.57	1.70	0.33	0.15	0.00	2.05	4.23	51.5

**Selected Physical and Chemical Properties for Site 272.**

**County - Suffolk**

**Soil series - Lynchburg**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	12	1.41	0.065	16	1
Eg	4	1.61	0.065		
Btg	16	1.55	0.140		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	12	14	49	158	454	94	769	194	37
E	4	3	31	225	531	91	881	109	10
Btg	16	11	27	115	436	90	679	143	178

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	12	5.52	0.35	0.08	0.00	0.00	0.75	1.18	36.4
E	4	4.87	0.25	0.08	0.00	0.00	0.90	1.23	26.8
Btg	16	5.30	0.20	0.08	0.00	0.00	0.45	0.73	38.4

**Selected Physical and Chemical Properties for Site 273.**

**County - Suffolk**

**Soil series - Lynchburg**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.56	0.117	20	1
Eg	12	1.61	0.152		
Btg	18	1.51	0.067		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	6	16	130	494	67	713	255	32
Eg	12	20	78	325	421	64	908	75	17
Btg	18	8	58	117	289	62	534	360	106

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	6.09	1.50	0.08	0.08	0.00	0.15	1.81	91.7
Eg	12	5.91	1.10	0.42	0.05	0.00	0.35	1.92	81.8
Btg	18	5.20	0.55	0.17	0.03	0.00	0.30	1.05	71.4

**Selected Physical and Chemical Properties for Site 274.**  
**County - Suffolk      Soil series - Wagram**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.42	0.038	22	44
E	14	1.72	0.069		
Bt	22	1.70	0.074		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	5	30	129	467	120	751	126	123
E	14	2	4	132	400	88	626	289	85
Bt	22	0	4	84	310	47	445	389	166

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	5.27	1.75	2.33	0.15	0.00	0.35	4.58	92.4
E	14	5.35	1.50	2.17	0.20	0.00	0.45	4.32	89.6
Bt	22	5.61	2.40	2.00	0.31	0.00	0.50	5.21	90.4

**Selected Physical and Chemical Properties for Site 275.**  
**County - Suffolk      Soil series - Wagram**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.62	0.061	20	42
E	12	1.70	0.072		
Bt	22	1.68	0.123		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	2	5	192	509	81	789	186	25
E	12	1	12	136	479	91	719	271	10
Bt	22	2	17	133	464	83	699	176	125

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	5.53	1.20	1.92	0.10	0.00	0.35	3.57	90.2
E	12	5.14	0.80	0.42	0.10	0.00	0.80	2.12	62.3
Bt	22	5.29	3.40	0.92	0.31	0.00	0.65	5.28	87.7

**Selected Physical and Chemical Properties for Site 276.**

**County - Suffolk**

**Soil series - Lynchburg**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.52	0.112	16	1
E	8	1.79	0.094		
Btg	20	1.85	0.078		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	7	37	186	359	70	659	316	25
E	8	9	41	211	379	62	702	290	8
Btg	20	9	35	238	378	71	731	134	135

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	5.91	3.90	2.67	0.20	0.00	0.25	7.02	96.4
E	8	5.71	1.00	0.67	0.10	0.00	0.50	2.27	78.0
Btg	20	5.70	0.75	0.42	0.10	0.00	0.50	1.77	71.8



**Selected Physical and Chemical Properties for Site 277.**

**County - Suffolk**

**Soil series - Wagram**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.67	0.058	20	48
E	12	1.76	0.076		
Bt	28	1.83	0.128		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand			Total	Silt	Clay
	Inches			M	F	VF			
				g kg <sup>-1</sup>					
Ap	8	5	30	150	517	101	803	172	25
E	12	3	12	139	501	104	759	233	8
Bt	28	9	22	131	435	79	676	169	155

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	5.98	1.45	1.58	0.08	0.00	0.20	3.31	94.0
E	12	5.22	0.20	0.00	0.05	0.00	0.55	0.80	31.3
Bt	28	4.70	2.75	1.92	0.23	0.00	1.50	6.40	76.6

**Selected Physical and Chemical Properties for Site 278.**

**County - Suffolk**

**Soil series - Wagram**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	14	1.32	0.033	22	50
E	8	1.74	0.032		
Bt	28	1.84	0.068		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	14	6	28	181	512	84	811	84	105
E	8	11	30	156	540	86	823	147	30
Bt	28	11	27	115	436	90	679	169	152

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	14	5.69	0.30	0.08	0.05	0.00	0.60	1.03	41.7
E	8	5.43	0.80	0.42	0.05	0.00	0.35	1.62	78.4
Bt	28	6.34	4.40	3.92	0.23	0.00	0.30	8.85	96.6

**Selected Physical and Chemical Properties for Site 279.**

**County - Suffolk**

**Soil series - Lynchburg**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	12	1.86	0.059	12	28
Bt	16	1.79	0.104		
Btg	22	1.79	0.069		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	12	2	5	159	379	47	592	353	55
Bt	16	0	2	111	254	33	400	340	260
Btg	22	0	2	104	261	33	400	384	216

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	12	5.23	2.40	1.75	0.31	0.00	0.50	4.96	89.9
Bt	16	4.66	2.00	2.42	0.13	0.00	3.65	8.20	55.5
Btg	22	4.44	0.75	0.83	0.10	0.00	5.70	7.38	22.8

**Selected Physical and Chemical Properties for Site 280.**

**County - Suffolk**

**Soil series - Lynchburg**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	10	1.76	0.060	10	22
Bt	12	1.79	0.087		
Btg	32	1.86	0.078		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	10	4	10	114	328	61	517	423	60
Bt	12	0	2	77	237	28	344	391	265
Btg	32	0	2	92	278	29	401	384	215

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	10	6.43	6.65	4.17	0.26	0.00	0.30	11.38	97.4
Bt	12	4.76	3.25	3.67	0.20	0.00	2.70	9.82	72.5
Btg	32	4.37	1.00	0.92	0.10	0.00	5.10	7.12	28.4

**Selected Physical and Chemical Properties for Site 281.**

**County - Suffolk**

**Soil series - Lynchburg**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	4	1.79	0.058	14	14
E	10	1.83	0.032		
Btg	19	1.69	0.036		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	4	10	53	165	356	32	616	349	35
E	10	6	33	104	311	38	492	468	40
Btg	19	0	2	91	257	32	382	403	215

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	4	5.27	1.45	0.67	0.15	0.00	0.65	2.92	77.7
E	10	5.06	1.65	1.25	0.20	0.00	1.45	4.55	68.1
Btg	19	4.29	0.75	0.75	0.15	0.00	1.50	3.15	52.4

**Selected Physical and Chemical Properties for Site 282.**

**County - Suffolk**

**Soil series - Rains**

**Part A. Selected Physical Properties.**

Horizon	Depth Inches	BD g cm <sup>-3</sup>	Available Water in in <sup>-1</sup>	Depth to Bt horizon in	Depth to Water Table in
Ap	12	1.48	0.083	12	1
Bg	14	1.60	0.076		
Btg	10	1.66	0.083		

**Part B. Particle Size Analysis by Hydrometer Method**

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
				g kg <sup>-1</sup>					
Ap	12	4	8	112	361	38	523	392	85
Bg	14	0	4	85	360	32	481	404	115
Btg	10	1	2	145	315	31	494	221	285

**Part C. Selected Chemical Properties.**

Horizon	Depth Inches	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS %
				cmoles kg <sup>-1</sup>					
Ap	12	5.00	1.45	1.58	0.15	0.00	1.50	4.68	67.9
Bg	14	4.59	0.50	0.58	0.13	0.00	3.25	4.46	27.1
Btg	10	4.50	0.10	0.08	0.03	0.00	4.75	4.96	4.2

**Selected Physical and Chemical Properties for Site 283.**

**County - Suffolk**

**Soil series - Goldsboro**

**Part A. Selected Physical Properties.**

Horizon	Depth Inches	BD g cm <sup>-3</sup>	Available Water in in <sup>-1</sup>	Depth to Bt horizon in	Depth to Water Table in
Ap	8	1.70	0.103	8	26
Bt	18	1.78	0.082		
Btg	34	1.78	0.098		

**Part B. Particle Size Analysis by Hydrometer Method**

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
				g kg <sup>-1</sup>					
Ap	8	1	7	129	379	28	544	376	80
Bt	18	1	2	96	305	47	451	334	215
Btg	34	0	2	90	254	39	385	435	180

**Part C. Selected Chemical Properties.**

Horizon	Depth Inches	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS %
					cmoles kg <sup>-1</sup>				
Ap	8	5.81	4.76	3.25	0.40	0.00	0.50	8.91	94.4
Bt	18	4.76	4.49	2.83	0.10	0.00	2.35	9.77	75.9
Btg	34	4.49	1.10	1.25	0.05	0.00	4.65	7.05	34.0

**Selected Physical and Chemical Properties for Site 284.**

**County - Suffolk**

**Soil series - Goldsboro**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.78	0.071	8	30
Bt	22	1.75	0.193		
Btg	30	1.75	0.072		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	3	11	161	364	30	569	376	55
Bt	22	0	3	103	272	32	410	360	230
Btg	30	1	3	80	462	36	582	208	210

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	6.24	5.85	4.08	0.26	0.00	0.30	10.49	97.1
Bt	22	4.58	1.80	2.58	0.40	0.00	3.35	8.13	58.8
Btg	30	4.31	1.95	1.92	0.10	0.00	4.40	8.37	47.4



**Selected Physical and Chemical Properties for Site 288.**

County - Suffolk

Soil series - Norfolk

**Part A. Selected Physical Properties.**

Horizon	Depth Inches	BD g cm <sup>-3</sup>	Available Water in in <sup>-1</sup>	Depth to Bt horizon in	Depth to Water Table in
Ap	12	1.52	0.045	20	60
E	8	1.62	0.035		
Bt	22	1.74	0.067		

**Part B. Particle Size Analysis by Hydrometer Method**

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
				g kg <sup>-1</sup>					
Ap	12	1	4	165	559	56	785	190	25
E	8	1	3	135	540	55	734	244	22
Bt	22	1	4	66	247	25	343	527	130

**Part C. Selected Chemical Properties.**

Horizon	Depth Inches	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS %
					cmoles kg <sup>-1</sup>				
Ap	12	5.17	0.85	0.00	0.08	0.00	0.65	1.58	58.9
E	8	5.24	0.95	0.00	0.05	0.00	0.75	1.75	57.1
Bt	22	4.79	2.45	1.25	0.10	0.00	1.85	5.65	67.3

**Selected Physical and Chemical Properties for Site 292.**

**County - Suffolk**

**Soil series - Rains**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	20	1.52	0.098	20	1
Btg <sub>1</sub>	16	1.63	0.151		
Btg <sub>2</sub>	14	1.63	0.076		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	20	5	14	163	562	66	810	160	30
Btg <sub>1</sub>	16	1	6	82	257	26	372	288	340
Btg <sub>2</sub>	14	1	8	175	467	33	684	25	291

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	20	5.98	2.60	2.25	0.10	0.00	0.30	5.25	94.3
Btg <sub>1</sub>	16	4.67	3.60	3.33	0.10	0.00	4.45	11.48	61.2
Btg <sub>2</sub>	14	4.57	2.80	2.67	0.13	0.00	6.25	11.85	47.3

**Selected Physical and Chemical Properties for Site 293.**

County - Suffolk

Soil series - Norfolk

**Part A. Selected Physical Properties.**

Horizon	Depth Inches	BD g cm <sup>-3</sup>	Available Water in in <sup>-1</sup>	Depth to Bt horizon in	Depth to Water Table in
Ap	6	1.52	0.009	12	60
E	6	1.89	0.047		
Bt	28	1.68	0.058		

**Part B. Particle Size Analysis by Hydrometer Method**

Horizon	Depth Inches	VC	C	Sand			Total	Silt	Clay
				M	F	VF			
				g kg <sup>-1</sup>					
Ap	6	1	10	176	604	46	837	138	25
E	6	0	6	141	535	59	741	234	25
Bt	28	1	4	91	470	67	633	242	125

**Part C. Selected Chemical Properties.**

Horizon	Depth Inches	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS %
					cmoles kg <sup>-1</sup>				
Ap	6	6.13	1.40	1.00	0.13	0.00	0.25	2.78	91.0
E	6	6.00	1.15	1.08	0.13	0.00	0.25	2.61	90.4
Bt	28	5.22	2.85	2.58	0.10	0.00	0.75	6.28	88.1

**Selected Physical and Chemical Properties for Site 294.**

**County - Suffolk**

**Soil series - Norfolk**

<b>Part A. Selected Physical Properties.</b>					
Horizon	Depth	BD	Available Water	Depth to Bt horizon	Depth to Water Table
	Inches	g cm <sup>-3</sup>	in in <sup>-1</sup>	in	in
Ap	8	1.66	0.029	14	60
E	6	1.86	0.031		
Bt	26	1.66	0.068		

<b>Part B. Particle Size Analysis by Hydrometer Method</b>									
Horizon	Depth	VC	C	Sand	F	VF	Total	Silt	Clay
	Inches			M	g kg <sup>-1</sup>				
Ap	8	6	11	162	570	52	801	174	25
E	6	0	5	114	530	29	678	292	30
Bt	26	15	138	208	327	105	793	27	180

<b>Part C. Selected Chemical Properties.</b>									
Horizon	Depth	pH	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Al <sup>3+</sup>	ECEC	BS
	Inches				cmoles kg <sup>-1</sup>				%
Ap	8	5.87	2.45	1.17	0.13	0.00	0.35	4.10	91.5
E	6	5.78	1.55	1.42	0.10	0.00	0.35	3.42	89.8
Bt	26	4.72	2.40	3.17	0.10	0.00	1.95	7.62	74.4

### **Vita: Clyde Wesley Adcock**

The author was born on November 4, 1961 in Oxford, North Carolina. He attended public schools in Granville County and graduated from J.F. Webb High School in 1980. After high school he attended N.C. State University and graduated with BS in Agronomy in 1983 and BS in Agricultural Education in 1984. While teaching in Alamance County, N.C., he started a graduate program culminating in a M.Ed. in Agriculture Education in 1986. He taught 8 years in Granville County. He returned to VPI&SU in 1995 to work on a Ph.D. in soil chemistry and fertility related to cotton with Drs. A.O. Abaye and M.M. Alley.