Humacao Area, Puerto Rico Eastern Part 03/15/2002

Chemical Properties of the Soils

(Absence of an entry indicates that data were not estimated.)

Map symbol and soil name	Horizon	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
		In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
AcC:									
Aceitunas-----	H1	0-10	---	3.0-6.0	3.5-5.5	0	0	0	0
	H2	10-60	---	25-30	3.5-5.5	0	0	0	0
Ad:									
Aguadilla-----	H1	0-8	---	5.0-9.0	4.5-6.0	0	0	0	0
	H2	8-58	---	1.0-2.0	4.5-6.0	0	0	0	0
Ag:									
Aguadilla-----	H1	0-8	---	5.0-9.0	4.5-6.0	0	0	4.0-8.0	0
	H2	8-60	---	0.0-2.0	4.5-6.0	0	0	4.0-8.0	0
Unnamed-------		---	---	---	---	---	---	---	---
AmB:									
Amelia--------	H1	0-7	10-20	---	5.1-7.3	0-5	0	0.0-2.0	0-2
	H2	7-14	10-30	---	5.6-6.5	0-10	0	0.0-2.0	0-10
	H3	14-23	10-30	---	6.1-6.5	2-15	0	0.0-4.0	0-10
	H4	23-60	10-15	---	6.1-7.8	2-15	0	0.0-4.0	0-15
AmC2:									
Amelia--------	H1	0-6	10-20	---	5.1-7.3	0-5	0	0.0-2.0	0-2
	H2	6-12	10-30	---	5.6-6.5	0-10	0	0.0-2.0	0-10
	H3	12-22	10-30	---	6.1-6.5	2-15	0	0.0-4.0	0-10
	H4	22-60	10-15	---	6.1-7.8	2-15	0	0.0-4.0	0-15

Chemical Properties of the Soils--Continued

Map symbol and soil name	Horizon	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
		In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
An:									
Arenales------	H1	0-8	0.0-10	---	7.4-7.8	0-5	0	0.0-2.0	0-5
	H2	8-24	0.0-10	---	7.9-8.4	0-5	0	0.0-2.0	0-5
	H3	24-31	0.0-10	---	7.4-8.4	0-5	0	0.0-2.0	0-5
	H4	31-42	0.0-10	---	7.4-8.4	0-5	0	0.0-2.0	0-5
	H5	42-60	0.0-10	---	7.4-8.4	0-5	0	0.0-2.0	0-5
Ar:									
Arenales------	H1	0-8	0.0-10	---	7.4-7.8	0-5	0	0.0-2.0	0-5
	H2	8-24	0.0-10	---	7.9-8.4	0-5	0	0.0-2.0	0-5
	H3	24-30	0.0-10	---	7.4-8.4	0-5	0	0.0-2.0	0-5
	H4	30-60	0.0-10	---	7.4-8.4	0-5	0	0.0-2.0	0-5
Ba:									
Bajura--------	H1	0-5	30-40	---	5.6-6.5	0	0	4.0-16.0	0
	H2	5-60	25-35	---	5.6-6.5	0	0	8.0-32.0	0
Bc:									
Bajura--------	H1	0-5	30-40	---	5.6-6.5	0	0	0	0
	H2	5-66	25-35	---	5.6-6.5	0	0	0	0
CbD2:									
Caguabo-------	H1	0-5	25-40	---	6.1-6.5	0	0	0	0
	H2	5-10	25-40	---	6.1-6.5	0	0	0	0
	H3	10-18	---	---	---	---	---	---	---
	H4	18-22	---	---	---	---	---	---	---

Chemical Properties of the Soils--Continued

Map symbol and soil name	Horizon	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
		In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
CbF2:									
Caguabo-------	H1	0-4	25-40	---	6.1-6.5	0	0	0	0
	H2	4-10	25-40	---	6.1-6.5	0	0	0	0
	H3	10-16	---	---	---	---	---	---	---
	H4	16-20	---	---	---	---	---	---	---
CdB:									
Candelero-----	H1	0-9	---	15-20	3.5-5.0	0	0	0	0
	H2	9-26	---	22-29	4.5-5.5	0	0	0	0
	H3	26-60	47-64	---	5.6-6.5	0	0	0	0
CdC2:									
Candelero-----	H1	0-7	---	15-20	3.5-5.0	0	0	0	0
	H2	7-24	---	22-29	4.5-5.5	0	0	0	0
	H3	24-64	47-64	---	5.6-6.5	0	0	0	0
Ce:									
Cartagena-----	H1	0-10	40-60	---	6.1-7.8	0-2	0	4.0-8.0	0-2
	H2	10-19	40-60	---	6.1-7.3	1-15	0	4.0-8.0	0-2
	H3	19-60	20-55	---	6.1-8.4	5-25	0	8.0-16.0	10-20
Cf:									
Catano--------	H1	0-8	2.0-10	---	7.9-8.4	10-50	0	0	0
	H2	8-60	0.0-10	---	7.9-8.4	10-50	0	0	0
CgC2:									
Cayagua-------	H1	0-4	---	10-15	5.1-5.5	0	0	0	0
	H2	4-20	---	20-24	4.5-5.5	0	0	0	0
	H3	20-60	24-29	---	4.5-7.3	0	0	0	0

Chemical Properties of the Soils--Continued

Map symbol and soil name	Horizon	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
		In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
CgD2:									
Cayagua-------	H1	0-2	---	10-15	5.1-5.5	0	0	0	0
	H2	2-18	---	20-24	4.5-5.5	0	0	0	0
	H3	18-60	24-29	---	4.5-7.3	0	0	0	0
ClB:									
Coamo---------	H1	0-15	30-40	---	6.1-6.5	0-2	0	0.0-2.0	0-4
	H2	15-25	30-40	---	7.4-7.8	10-20	0	0.0-2.0	0-4
	H3	25-38	20-30	---	7.9-8.4	20-50	0	0.0-2.0	0-4
	H4	38-48	20-30	---	7.9-8.4	20-50	0	0.0-2.0	0-4
ClC:									
Coamo---------	H1	0-15	30-40	---	6.1-6.5	0-2	0	0.0-2.0	0-4
	H2	15-25	30-40	---	7.4-7.8	10-20	0	0.0-2.0	0-4
	H3	25-38	20-30	---	7.9-8.4	20-50	0	0.0-2.0	0-4
	H4	38-48	20-30	---	7.9-8.4	20-50	0	0.0-2.0	0-4
Urban Land----		---	---	---	---	---	---	---	---
Cm:									
Coastal Beaches------	H1	0-6	---	---	5.1-7.8	0	0	4.0-32.0	0
	H2	6-80	---	---	5.1-7.8	0	0	4.0-32.0	0
Cn:									
Cobbly Alluvial Land		---	---	---	---	---	---	---	---

Chemical Properties of the Soils--Continued

Map symbol and soil name	Horizon	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
		In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
Co:									
Coloso--------	H1	0-9	20-30	---	5.6-6.5	0	0	0	0
	H2	9-60	20-28	---	5.6-6.5	0	0	0	0
Cr:									
Coloso--------	H1	0-7	22-30	---	5.6-6.5	0	0	0	0
	H2	7-60	20-28	---	5.6-6.5	0	0	0	0
Cs:									
Corcega-------	H1	0-8	20-30	---	6.1-6.5	0	0	0	0
	H2	8-14	20-28	---	6.1-6.5	0	0	0	0
	H3	14-32	15-25	---	6.1-6.5	0	0	0	0
	H4	32-50	2.0-6.0	---	6.1-6.5	0	0	0	0
DaC:									
Daguao Variant	H1	0-11	9.0-17	---	5.6-6.0	0	0	0	0
	H2	11-35	9.0-17	---	5.1-6.0	0	0	0	0
	H3	35-45	3.0-14	---	5.1-6.0	0	0	0	0
	H4	45-49	---	---	---	---	---	---	---
DcE2:									
Daguao--------	H1	0-34	---	9.0-17	5.1-5.5	0	0	0	0
	H2	34-40	---	---	---	0	0	0	0
DeC2:									
Descalabrado--	H1	0-7	30-50	---	6.6-7.3	0-2	0	0	0
	H2	7-18	20-50	---	6.6-7.3	0-2	0	0	0
	H3	18-22	---	---	---	---	---	---	---

Chemical Properties of the Soils--Continued

Map symbol and soil name	Horizon	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
		In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
DeE2:									
Descalabrado--	H1	0-6	30-50	---	6.6-7.3	0-2	0	0	0
	H2	6-19	20-50	---	6.6-7.3	0-2	0	0	0
	H3	19-23	---	---	---	---	---	---	---
DgF2:									
Descalabrado--	H1	0-5	30-50	---	6.6-7.3	0-2	0	0	0
	H2	5-12	20-50	---	6.6-7.3	0-2	0	0	0
	H3	12-16	---	---	---	---	---	---	---
Guayama-------	H1	0-5	30-50	---	6.1-7.8	0-2	0	0	0
	H2	5-18	35-55	---	6.1-7.8	0-2	0	0	0
	H3	18-22	---	---	---	---	---	---	---
DrF:									
Descalabrado--	H1	0-5	30-50	---	6.6-7.3	0-2	0	0	0
	H2	5-12	20-50	---	6.6-7.3	0-2	0	0	0
	H3	12-16	---	---	---	---	---	---	---
Rock Land-----	H1	0-60	---	---	---	---	---	---	---
FaC:									
Fajardo-------	H1	0-9	9.0-15	---	5.6-6.5	0	0	0	0
	H2	9-60	6.0-10	---	5.6-6.5	0	0	0	0
FaC2:									
Fajardo-------	H1	0-6	9.0-15	---	5.6-6.5	0	0	0	0
	H2	6-60	6.0-10	---	5.6-6.5	0	0	0	0

Chemical Properties of the Soils--Continued

Map symbol and soil name	Horizon	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
		In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
Fo:									
Fortuna-------	H1	0-5	---	30-40	4.5-5.5	0	0	0	0
	H2	5-77	---	25-35	4.5-5.5	0	0	0	0
FrA:									
Fraternidad---	H1	0-13	35-55	---	6.1-7.8	0-2	0	0.0-2.0	0-2
	H2	13-18	35-55	---	7.4-8.4	0-2	0	0.0-2.0	0-2
	H3	18-31	40-65	---	7.4-8.4	0-10	0	0.0-2.0	0-2
	H4	31-50	35-50	---	7.4-8.4	0-1	0	0.0-2.0	0-2
FrB:									
Fraternidad---	H1	0-13	35-55	---	6.1-7.8	0-2	0	0.0-2.0	0-2
	H2	13-18	35-55	---	7.4-8.4	0-2	0	0.0-2.0	0-2
	H3	18-31	40-65	---	7.4-8.4	0-10	0	0.0-2.0	0-2
	H4	31-50	35-50	---	7.4-8.4	0-1	0	0.0-2.0	0-2
Gm:									
Guamani-------	H1	0-6	25-35	---	6.1-7.8	0-10	0	0.0-2.0	0-5
	H2	6-20	25-35	---	6.1-7.8	0-10	0	0.0-2.0	0-5
	H3	20-60	0.0-10	---	6.1-7.8	0-5	0	0.0-2.0	0-5
GuE2:									
Guayabota-----	H1	0-5	---	15-20	4.5-5.0	0	0	0	0
	H2	5-14	---	15-20	4.5-5.0	0	0	0	0
	H3	14-18	---	10-15	2.0-4.4	0	0	0	0
	H4	18-22	---	---	---	---	---	---	---

Chemical Properties of the Soils--Continued

Map symbol and soil name	Horizon	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
		In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
GvF:									
Guayabota-----	H1	0-5	---	15-20	4.5-5.0	0	0	0	0
	H2	5-14	---	15-20	4.5-5.0	0	0	0	0
	H3	14-18	---	10-15	2.0-4.4	0	0	0	0
	H4	18-22	---	---	---	---	---	---	---
Ciales--------	H1	0-7	---	3.0-5.0	3.5-5.5	0	0	0.0-2.0	0
	H2	7-33	---	2.0-4.0	3.5-5.5	0	0	0.0-2.0	0
	H3	33-41	---	1.0-4.0	3.5-5.5	0	0	0.0-2.0	0
	H4	41-48	---	1.0-4.0	3.5-5.5	0	0	0.0-2.0	0
	H5	48-60	---	1.0-4.0	3.5-5.5	0	0	0.0-2.0	0
Picacho-------	H1	0-9	---	4.0-10	3.5-5.5	0	0	0	0
	H2	9-35	---	2.0-6.0	3.5-5.5	0	0	0	0
	H3	35-65	---	2.0-6.0	3.5-5.5	0	0	0	0
	H4	65-72	---	1.0-5.0	3.5-5.5	0	0	0	0
GyC2:									
Guayama Variant------	H1	0-8	---	25-50	5.1-5.5	0-1	0	0.0-2.0	0-2
	H2	8-26	25-50	---	5.6-6.5	0-1	0	0.0-2.0	0-2
	H3	26-30	---	---	---	---	---	---	---
HmB:									
Humacao-------	H1	0-14	30-50	---	5.1-6.0	0	0	0	0
	H2	14-55	25-45	---	5.1-6.0	0	0	0	0

Chemical Properties of the Soils--Continued

Map symbol and soil name	Horizon	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
		In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
HtE2:									
Humatas-------	H1	0-5	---	9.0-17	4.5-5.5	0	0	0	0
	H2	5-27	---	3.0-14	4.5-5.5	0	0	0	0
	H3	27-60	---	3.0-17	4.5-5.5	0	0	0	0
HtF2:									
Humatas-------	H1	0-4	---	9.0-17	4.5-5.5	0	0	0	0
	H2	4-25	---	3.0-14	4.5-5.5	0	0	0	0
	H3	25-60	---	3.0-17	4.5-5.5	0	0	0	0
HuF:									
Humatas-------	H1	0-4	---	9.0-17	4.5-5.5	0	0	0	0
	H2	4-25	---	3.0-14	4.5-5.5	0	0	0	0
	H3	25-60	---	3.0-17	4.5-5.5	0	0	0	0
Stony Land----	H1	0-60	---	---	---	0	0	0	0
InE2:									
Ingenio-------	H1	0-7	---	10-18	4.5-5.0	0	0	0	0
	H2	7-40	---	13-21	4.5-5.0	0	0	0	0
	H3	40-51	---	21-25	4.5-5.0	0	0	0	0
	H4	51-76	---	24-29	4.5-5.0	0	0	0	0
JaB:									
Jacana--------	H1	0-5	30-50	---	5.6-7.8	0-1	0	0.0-2.0	0
	H2	5-21	30-50	---	5.6-7.8	0-1	0	0.0-2.0	0
	H3	21-26	30-50	---	5.6-7.8	0-1	0	0.0-2.0	0
	H4	26-30	---	---	---	---	---	---	---

Chemical Properties of the Soils--Continued

Map symbol and soil name	Horizon	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
		In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
JaC2:									
Jacana--------	H1	0-5	30-50	---	5.6-7.8	0-1	0	0.0-2.0	0
	H2	5-21	30-50	---	5.6-7.8	0-1	0	0.0-2.0	0
	H3	21-26	30-50	---	5.6-7.8	0-1	0	0.0-2.0	0
	H4	26-30	---	---	---	---	---	---	---
JgE2:									
Jagueyes------	H1	0-8	---	10-12	3.5-5.5	0	0	0	0
	H2	8-14	---	6.0-8.0	3.5-5.5	0	0	0	0
	H3	14-37	---	7.0-22	3.5-5.5	0	0	0	0
	H4	37-52	---	11-24	3.5-5.5	0	0	0	0
	H5	52-95	---	28-47	3.5-5.5	0	0	0	0
JuC:									
Junquitos-----	H1	0-7	---	34-44	3.5-4.4	0	0	0	0
	H2	7-35	---	34-44	5.1-5.5	0	0	0	0
	H3	35-39	---	---	---	0	0	0	0
Lc:									
Leveled Clayey Land---------		---	---	---	---	---	---	---	---
LeE2:									
Limones-------	H1	0-5	---	2.0-21	3.5-5.0	0	0	0	0
	H2	5-40	---	3.0-22	3.5-5.0	0	0	0	0
	H3	40-54	---	12-14	3.5-5.0	0	0	0	0
	H4	54-99	---	11-16	3.5-5.0	0	0	0	0

Chemical Properties of the Soils--Continued

Map symbol and soil name	Horizon	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
		In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
LoC2:									
Lirios--------	H1	0-5	---	18-24	4.5-5.5	0	0	0	0
	H2	5-25	---	10-18	4.5-5.5	0	0	0	0
	H3	25-60	---	7.0-10	4.5-5.5	0	0	0	0
LrE2:									
Lirios--------	H1	0-4	---	18-24	4.5-5.5	0	0	0	0
	H2	4-23	---	10-18	4.5-5.5	0	0	0	0
	H3	23-60	---	7.0-10	4.5-5.5	0	0	0	0
LsD:									
Los Guineos---	H1	0-6	---	12-23	3.5-5.0	0	0	0	0
	H2	6-60	---	3.0-6.0	3.5-5.0	0	0	0	0
LsE2:									
Los Guineos---	H1	0-5	---	12-23	3.5-5.0	0	0	0	0
	H2	5-60	---	3.0-6.0	3.5-5.0	0	0	0	0
LsF2:									
Los Guineos---	H1	0-5	---	12-23	3.5-5.0	0	0	0	0
	H2	5-60	---	3.0-6.0	3.5-5.0	0	0	0	0
LyF:									
Los Guineos---	H1	0-5	---	12-23	3.5-5.0	0	0	0	0
	H2	5-60	---	3.0-6.0	3.5-5.0	0	0	0	0
Yunque--------	H1	0-8	---	30-40	4.5-5.0	0	0	0	0
	H2	8-68	---	22-30	4.5-5.0	0	0	0	0

Chemical Properties of the Soils--Continued

Map symbol and soil name	Horizon	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
		In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
MaB:									
Mabi----------	H1	0-6	25-35	---	4.5-6.5	0	0	0	0
	H2	6-18	35-42	---	4.5-6.5	0	0	0	0
	H3	18-56	30-41	---	6.6-8.4	0	0	0	0
MaC2:									
Mabi----------	H1	0-6	25-35	---	4.5-6.5	0	0	0	0
	H2	6-20	35-42	---	4.5-6.5	0	0	0	0
	H3	20-60	30-41	---	6.6-8.4	0	0	0	0
MaD2:									
Mabi----------	H1	0-5	25-35	---	4.5-6.5	0	0	0	0
	H2	5-18	35-42	---	4.5-6.5	0	0	0	0
	H3	18-60	30-41	---	6.6-8.4	0	0	0	0
McA:									
Machete-------	H1	0-14	---	10-20	5.1-5.5	0-5	0-1	0.0-4.0	0-10
	H2	14-20	---	10-20	5.1-5.5	0-5	0-1	0.0-4.0	0-10
	H3	20-32	---	10-40	5.1-5.5	0-5	0-1	0.0-4.0	0-10
	H4	32-39	---	10-40	5.1-5.5	0-5	0-1	0.0-4.0	0-10
	H5	39-45	---	15-40	5.1-5.5	0-5	0-1	0.0-4.0	0-10
	H6	45-60	---	15-30	5.1-5.5	0-5	0-1	0.0-4.0	0-10
McB:									
Machete-------	H1	0-12	---	10-20	5.1-5.5	0-5	0-1	0.0-4.0	0-10
	H2	12-18	---	10-20	5.1-5.5	0-5	0-1	0.0-4.0	0-10
	H3	18-30	---	10-40	5.1-5.5	0-5	0-1	0.0-4.0	0-10
	H4	30-37	---	10-40	5.1-5.5	0-5	0-1	0.0-4.0	0-10
	H5	37-43	---	15-40	5.1-5.5	0-5	0-1	0.0-4.0	0-10
	H6	43-60	---	15-30	5.1-5.5	0-5	0-1	0.0-4.0	0-10

Chemical Properties of the Soils--Continued

Map symbol and soil name	Horizon	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
		In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
Md:									
Made Land-----		---	---	---	---	---	---	---	---
Me:									
Maunabo-------	H1	0-10	---	18-29	5.1-5.5	0	0	0	0
	H2	10-39	---	18-29	5.1-5.5	0	0	0	0
	H3	39-48	---	7.0-18	5.1-5.5	0	0	0	0
MlC:									
Mayo----------	H1	0-8	---	31-45	4.5-5.5	0	0	0	0
	H2	8-18	---	31-45	4.5-5.5	0	0	0	0
	H3	18-60	---	22-46	4.5-5.5	0	0	0	0
MrB:									
Meros---------	H1	0-14	0.0-10	---	6.6-7.8	10-30	0	0.0-8.0	0-10
	H2	14-60	0.0-10	---	6.6-8.4	10-30	0	0.0-8.0	0-10
MuD2:									
Mucara--------	H1	0-7	---	---	5.6-7.3	---	---	0	---
	H2	7-18	---	---	5.6-7.3	---	---	0	---
	H3	18-32	---	---	---	---	---	---	---
	H4	32-36	---	---	---	---	---	---	---
MuE2:									
Mucara--------	H1	0-6	---	---	5.6-7.3	---	---	0	---
	H2	6-18	---	---	5.6-7.3	---	---	0	---
	H3	18-32	---	---	---	---	---	---	---
	H4	32-36	---	---	---	---	---	---	---

Chemical Properties of the Soils--Continued

Map symbol and soil name	Horizon	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
		In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
NaE2:									
Naranjito-----	H1	0-7	---	9.0-17	3.5-5.5	0	0	0	0
	H2	7-30	---	9.0-17	3.5-5.5	0	0	0	0
	H3	30-38	---	3.0-14	3.5-5.5	0	0	0	0
	H4	38-42	---	---	---	---	---	---	---
NaF2:									
Naranjito-----	H1	0-6	---	9.0-17	3.5-5.5	0	0	0	0
	H2	6-30	---	9.0-17	3.5-5.5	0	0	0	0
	H3	30-38	---	3.0-14	3.5-5.5	0	0	0	0
	H4	38-42	---	---	---	---	---	---	---
PaE2:									
Pandura-------	H1	0-3	15-19	---	5.1-6.5	0	0	0	0
	H2	3-19	12-15	---	5.1-6.5	0	0	0	0
	H3	19-35	---	---	5.1-6.0	---	---	0	---
PaF2:									
Pandura-------	H1	0-3	15-19	---	5.1-6.5	0	0	0	0
	H2	3-19	12-15	---	5.1-6.5	0	0	0	0
	H3	19-35	---	---	5.1-6.0	---	---	0	---
PdF:									
Pandura-------	H1	0-3	15-19	---	5.1-6.5	0	0	0	0
	H2	3-19	12-15	---	5.1-6.5	0	0	0	0
	H3	19-35	---	---	5.1-6.0	---	---	0	---
Very Stony Land---------	H1	0-60	---	---	---	0	0	0	0

Chemical Properties of the Soils--Continued

Map symbol and soil name	Horizon	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
		In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
PeC2:									
Parcelas------	H1	0-7	---	17-33	3.5-5.5	0	0	0	0
	H2	7-31	---	17-33	3.5-5.5	0	0	0	0
	H3	31-60	---	25-33	3.5-5.5	0	0	0	0
PlB:									
Paso Seco-----	H1	0-5	30-40	---	6.6-7.8	0-5	0	0.0-2.0	0-2
	H2	5-19	30-40	---	6.6-7.8	0-5	0	0.0-2.0	0-2
	H3	19-38	30-40	---	6.6-7.8	0-5	0	0.0-2.0	0-2
	H4	38-50	30-40	---	7.4-8.4	0-5	0	0.0-2.0	0-2
PmD2:									
Patillas------	H1	0-9	---	8.0-25	4.5-5.5	0	0	0	0
	H2	9-20	---	6.0-20	4.5-5.5	0	0	0	0
	H3	20-60	---	5.0-10	4.5-5.5	0	0	0	0
PmE2:									
Patillas------	H1	0-8	---	8.0-25	4.5-5.5	0	0	0	0
	H2	8-19	---	6.0-20	4.5-5.5	0	0	0	0
	H3	19-60	---	5.0-10	4.5-5.5	0	0	0	0
Pn:									
Pinones-------	H1	0-4	---	30-50	4.5-5.5	0	0	0	0
	H2	4-18	---	25-45	4.5-5.5	0	0	0	0
	H3	18-60	---	170-200	4.5-5.5	0	0	0	0

Chemical Properties of the Soils--Continued

Map symbol and soil name	Horizon	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
		In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
Po:									
Poncena-------	H1	0-2	40-55	---	6.6-8.4	0-2	0	0.0-2.0	0-2
	H2	2-14	40-55	---	6.6-8.4	0-2	0	0.0-2.0	0-2
	H3	14-41	40-55	---	7.9-8.4	0-2	0	0.0-2.0	0-2
	H4	41-60	20-55	---	7.9-8.4	5-10	0	0.0-2.0	0-2
PrC2:									
Pozo Blanco---	H1	0-7	20-35	---	7.4-7.8	0-5	0	0	0
	H2	7-15	15-30	---	7.4-8.4	0-10	0	0	0
	H3	15-60	15-30	---	7.9-8.4	20-50	0	0	0
Re:									
Reilly--------	H1	0-9	15-20	---	5.6-6.5	0	0	0	0
	H2	9-60	1.0-10	---	5.6-6.5	0	0	0	0
Rp:									
Reparada------	H1	0-8	30-50	---	6.6-8.4	0	0	0	0
	H2	8-18	25-45	---	6.6-8.4	0	0	0	0
	H3	18-60	170-200	---	6.6-8.4	0	0	0	0
RrB:									
Rio Arriba----	H1	0-5	9.0-11	---	5.6-7.8	0	0	0	0
	H2	5-60	9.0-15	---	5.6-7.8	0	0	0	0
RrC2:									
Rio Arriba----	H1	0-5	9.0-11	---	5.6-7.8	0	0	0	0
	H2	5-60	9.0-15	---	5.6-7.8	0	0	0	0
Rs:									
Rock Land-----	H1	0-60	---	---	---	---	---	---	---

Chemical Properties of the Soils--Continued

Map symbol and soil name	Horizon	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
		In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
Ru:									
Rough Stony Land---------	H1	0-60	---	---	---	0	0	0	0
SaE2:									
Sabana--------	H1	0-4	---	24-30	5.1-5.5	0	0	0	0
	H2	4-18	---	24-30	5.1-5.5	0	0	0	0
	H3	18-22	---	---	---	0	0	0	0
SaF2:									
Sabana--------	H1	0-2	---	24-30	5.1-5.5	0	0	0	0
	H2	2-15	---	24-30	5.1-5.5	0	0	0	0
	H3	15-19	---	---	---	0	0	0	0
Sm:									
Salt Water Marsh--------	H1	0-60	---	---	---	---	---	8.0-16.0	---
Ta:									
Talante-------	H1	0-4	---	15-20	4.5-5.0	0	0	0	0
	H2	4-10	---	10-16	5.1-5.5	0	0	0	0
	H3	10-18	---	2.0-6.0	5.1-5.5	0	0	0	0
	H4	18-40	---	0.0-6.0	5.1-5.5	0	0	0	0
	H5	40-58	---	---	5.1-5.5	---	---	0	---
TeE:									
Teja----------	H1	0-6	---	25-30	4.5-5.0	0	0	0	0
	H2	6-14	---	24-30	4.5-5.0	0	0	0	0
	H3	14-18	---	---	---	---	---	---	---

Chemical Properties of the Soils--Continued

Map symbol and soil name	Horizon	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
		In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
Tf:									
Tidal Flats---	H1	0-60	---	---	---	---	---	16.0-32.0	---
Ts:									
Tidal Swamp---	H1	0-60	---	---	6.1-7.8	---	---	16.0-32.0	---
Tt:									
Toa----------	H1	0-10	23-27	---	5.1-7.3	0	0	0	0
	H2	10-16	21-27	---	5.1-7.3	0	0	0	0
	H3	16-60	20-30	---	6.6-7.8	0	0	0	0
UpF:									
Picacho-------	H1	0-9	---	4.0-10	3.5-5.5	0	0	0	0
	H2	9-35	---	2.0-6.0	3.5-5.5	0	0	0	0
	H3	35-65	---	2.0-6.0	3.5-5.5	0	0	0	0
	H4	65-72	---	1.0-5.0	3.5-5.5	0	0	0	0
Utuado--------	H1	0-5	---	6.0-10	4.5-5.0	0	0	0	0
	H2	5-18	---	3.0-6.0	4.5-5.0	0	0	0	0
	H3	18-23	---	3.0-6.0	4.5-5.0	0	0	0	0
	H4	23-72	---	1.0-4.0	4.5-5.0	0	0	0	0
Stony Rockland	H1	0-60	---	---	---	---	---	---	---
Ur:									
Urban---------	H1	0-6	---	---	---	---	---	0	---

Chemical Properties of the Soils--Continued

Map symbol and soil name	Horizon	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
		In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
Va:									
Vayas---------	H1	0-8	20-40	---	6.6-7.8	0-2	0	0.0-2.0	2-4
	H2	8-20	25-50	---	6.6-8.4	1-5	0	0.0-2.0	4-10
	H3	20-60	25-40	---	6.6-8.4	1-5	0	2.0-4.0	2-4
Vc:									
Vayas---------	H1	0-8	20-40	---	6.6-7.8	0-2	0	0.0-2.0	2-4
	H2	8-21	25-50	---	6.6-8.4	1-5	0	0.0-2.0	4-10
	H3	21-60	25-40	---	6.6-8.4	1-5	0	2.0-4.0	2-4
VeB:									
Vega Alta-----	H1	0-9	---	15-24	5.1-5.5	0	0	0	0
	H2	9-60	---	13-25	4.5-5.5	0	0	0	0
VeC:									
Vega Alta-----	H1	0-9	---	15-24	5.1-5.5	0	0	0	0
	H2	9-60	---	13-25	4.5-5.5	0	0	0	0
VgA:									
Vega Baja-----	H1	0-12	10-14	---	4.5-6.5	0	0	0	0
	H2	12-23	14-19	---	4.5-6.5	0	0	0	0
	H3	23-60	14-20	---	4.5-6.5	0	0	0	0
VlC:									
Via----------	H1	0-8	---	10-15	3.5-4.4	0	0	0	0
	H2	8-47	8.0-11	---	6.1-6.5	0	0	0	0
	H3	47-62	8.0-11	---	5.6-6.0	0	0	0	0

Chemical Properties of the Soils--Continued

Map symbol and soil name	Horizon	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
		In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
VmC:									
Vieques-------	H1	0-7	25-35	---	6.1-7.8	0-5	0	0.0-2.0	0-5
	H2	7-15	25-35	---	6.1-7.8	0-5	0	0.0-2.0	0-5
	H3	15-38	5.0-15	---	6.1-7.8	0-5	0	0.0-2.0	0-5
	H4	38-42	---	---	---	---	---	---	---
VmE2:									
Vieques-------	H1	0-5	25-35	---	6.1-7.8	0-5	0	0.0-2.0	0-5
	H2	5-15	25-35	---	6.1-7.8	0-5	0	0.0-2.0	0-5
	H3	15-38	5.0-15	---	6.1-7.8	0-5	0	0.0-2.0	0-5
	H4	38-42	---	---	---	---	---	---	---
Vs:									
Vives---------	H1	0-9	25-40	---	6.1-7.8	0-5	0	0	0
	H2	9-32	20-35	---	6.1-7.8	0-5	0	0	0
	H3	32-43	20-30	---	6.6-8.4	0-5	0	0	0
	H4	43-50	20-30	---	6.6-8.4	40-60	0	0	0
VvA:									
Vives---------	H1	0-9	25-40	---	6.1-7.8	0-5	0	0	0
	H2	9-32	20-35	---	6.1-7.8	0-5	0	0	0
	H3	32-43	20-30	---	6.6-8.4	0-5	0	0	0
	H4	43-50	20-30	---	6.6-8.4	40-60	0	0	0
VvB:									
Vives---------	H1	0-9	25-40	---	6.1-7.8	0-5	0	0	0
	H2	9-32	20-35	---	6.1-7.8	0-5	0	0	0
	H3	32-43	20-30	---	6.6-8.4	0-5	0	0	0
	H4	43-50	20-30	---	6.6-8.4	40-60	0	0	0

Chemical Properties of the Soils--Continued

Map symbol and soil name	Horizon	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
		In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
Vw:									
Vivi----------	H1	0-14	---	30-50	4.5-5.5	0	0	0	0
	H2	14-20	---	25-40	4.5-5.5	0	0	0	0
	H3	20-30	---	25-40	4.5-5.5	0	0	0	0
	H4	30-36	---	15-30	4.5-5.5	0	0	0	0
	H5	36-60	---	25-40	4.5-5.5	0	0	0	0
Wa:									
Wet Alluvial Land---------	H1	0-60	---	---	---	---	---	0.0-2.0	---
YuF2:									
Yunes---------	H1	0-2	---	31-45	4.5-5.5	0	0	0	0
	H2	2-16	---	31-45	4.5-5.5	0	0	0	0
	H3	16-20	---	---	---	---	---	---	---