Ponce Area, Puerto Rico Southern Part
Chemical Properties of the Soils

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

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon-ate	Gypsum	Salinity	Sodium adsorp-tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
AaF2:								
Adjuntas----------	0-5	---	4.0-7.0	3.5-5.5	0	0	0	0
	5-24	---	4.0-7.0	3.5-5.5	0	0	0	0
	24-48	---	---	---	---	---	---	---
	48-52	---	---	---	---	---	---	---
AgD:								
Aguilita----------	0-13	40-50	---	7.9-8.4	35-40	0	0.0-2.0	0-5
	13-60	30-40	---	7.9-8.4	75-95	0	0.0-2.0	0-5
AgF:								
Aguilita----------	0-13	40-50	---	7.9-8.4	35-40	0	0.0-2.0	0-5
	13-60	30-40	---	7.9-8.4	75-95	0	0.0-2.0	0-5
AhF:								
Aguilita----------	0-12	40-50	---	7.9-8.4	35-40	0	0.0-2.0	0-5
	12-60	30-40	---	7.9-8.4	75-95	0	0.0-2.0	0-5
AnE2:								
Alonso----------	0-6	---	9.0-10	4.5-5.5	0	0	0	0
	6-53	---	6.0-10	4.5-5.5	0	0	0	0
	53-60	---	6.0-8.0	4.5-5.5	0	0	0	0
AnF2:								
Alonso----------	0-5	---	9.0-10	4.5-5.5	0	0	0	0
	5-53	---	6.0-10	4.5-5.5	0	0	0	0
	53-60	---	6.0-8.0	4.5-5.5	0	0	0	0

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon-ate	Gypsum	Salinity	Sodium adsorp-tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
CbF2:								
Caguabo----------	0-5	25-40	---	6.1-6.5	0	0	0	0
	5-12	25-40	---	6.1-6.5	0	0	0	0
	12-17	---	---	---	---	---	---	---
	17-21	---	---	---	---	---	---	---
CdF:								
Caguabo----------	0-4	25-40	---	6.1-6.5	0	0	0	0
	4-10	25-40	---	6.1-6.5	0	0	0	0
	10-16	---	---	---	---	---	---	---
	16-20	---	---	---	---	---	---	---
Rock Land----------	0-60	---	---	---	---	---	---	---
CoD:								
Callabo----------	0-6	20-35	---	6.1-7.3	0-5	0	0.0-2.0	0-5
	6-13	20-30	---	6.1-7.3	0-5	0	0.0-2.0	0-5
	13-20	20-30	---	6.1-7.3	0-5	0	0.0-2.0	0-5
	20-30	---	---	---	---	---	0	---
	30-34	---	---	---	---	---	---	---
CoE:								
Callabo----------	0-5	20-35	---	6.1-7.3	0-5	0	0.0-2.0	0-5
	5-13	20-30	---	6.1-7.3	0-5	0	0.0-2.0	0-5
	13-19	20-30	---	6.1-7.3	0-5	0	0.0-2.0	0-5
	19-27	---	---	---	---	---	0	---
	27-31	---	---	---	---	---	---	---

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon-ate	Gypsum	Salinity	Sodium adsorp-tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
CoF2:								
Callabo----------	0-5	20-35	---	6.1-7.3	0-5	0	0.0-2.0	0-5
	5-13	20-30	---	6.1-7.3	0-5	0	0.0-2.0	0-5
	13-19	20-30	---	6.1-7.3	0-5	0	0.0-2.0	0-5
	19-27	---	---	---	---	---	0	---
	27-31	---	---	---	---	---	---	---
Cr:								
Cintrona----------	0-8	30-40	---	7.4-8.4	5-10	0	0.0-2.0	0-2
	8-60	30-40	---	7.4-8.4	10-15	0	0.0-2.0	0-2
Ct:								
Constancia----------	0-12	30-40	---	7.4-8.4	5-10	0	0.0-2.0	0-2
	12-65	30-40	---	7.4-8.4	10-15	0	0.0-2.0	0-2
CuF2:								
Consumo----------	0-7	---	9.0-17	4.5-5.0	0	0	0	0
	7-20	---	9.0-17	4.5-5.0	0	0	0	0
	20-60	---	8.0-19	4.5-5.0	0	0	0	0
Cx:								
Cortada----------	0-10	30-50	---	7.4-7.8	0-5	0	0.0-2.0	0-10
	10-28	30-50	---	7.4-7.8	0-5	0	0.0-2.0	0-10
	28-38	30-50	---	7.9-8.4	5-10	0	0.0-2.0	0-10
	38-68	40-60	---	7.9-8.4	10-20	0	0.0-2.0	0-10
CyB:								
Cuyon----------	0-11	20-30	---	6.6-7.8	0-5	0	0	0-2
	11-17	0.0-10	---	6.6-7.8	0-5	0	0	0-2
	17-60	0.0-10	---	6.6-7.8	0-5	0	0	0-2

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon-ate	Gypsum	Salinity	Sodium adsorp-tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
DaD:								
Daguey----------	0-8	---	5.0-20	4.5-5.5	0	0	0	0
	8-41	---	6.0-23	4.5-5.5	0	0	0	0
	41-60	---	7.0-12	4.5-5.5	0	0	0	0
EnC:								
Ensenada----------	0-11	30-50	---	7.4-8.4	20-40	0	0.0-2.0	0-4
	11-60	30-50	---	7.4-8.4	70-90	0	0.0-2.0	0-4
Fe:								
Fe----------	0-8	30-60	---	7.9-9.0	5-20	0	4.0-8.0	5-25
	8-14	30-60	---	8.5-9.0	5-20	0	8.0-16.0	20-40
	14-60	30-60	---	8.5-9.0	5-30	2-4	8.0-16.0	20-40
FtB:								
Fraternidad----------	0-8	35-55	---	6.1-7.8	0-2	0	0.0-2.0	0-2
	8-22	35-55	---	7.4-8.4	0-2	0	0.0-2.0	0-2
	22-40	40-65	---	7.4-8.4	0-10	0	0.0-2.0	0-2
	40-60	35-50	---	7.4-8.4	0-1	0	0.0-2.0	0-2
FtC2:								
Fraternidad----------	0-6	35-55	---	6.1-7.8	0-2	0	0.0-2.0	0-2
	6-20	35-55	---	7.4-8.4	0-2	0	0.0-2.0	0-2
	20-38	40-65	---	7.4-8.4	0-10	0	0.0-2.0	0-2
	38-60	35-50	---	7.4-8.4	0-1	0	0.0-2.0	0-2

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon-ate	Gypsum	Salinity	Sodium adsorp-tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
GoF:								
Guanabano----------	0-6	30-40	---	7.4-8.4	10-30	0	0.0-2.0	0-4
	6-11	30-40	---	7.9-8.4	10-30	0	0.0-2.0	0-4
	11-20	30-40	---	7.9-8.4	30-50	0	0.0-2.0	0-4
	20-50	30-40	---	7.9-8.4	10-30	0	0.0-2.0	0-4
	50-60	30-40	---	7.9-8.4	10-30	0	0.0-2.0	0-4
HmE2:								
Humatas----------	0-4	---	9.0-17	4.5-5.5	0	0	0	0
	4-25	---	3.0-14	4.5-5.5	0	0	0	0
	25-60	---	3.0-17	4.5-5.5	0	0	0	0
HmF2:								
Humatas----------	0-5	---	9.0-17	4.5-5.5	0	0	0	0
	5-28	---	3.0-14	4.5-5.5	0	0	0	0
	28-60	---	3.0-17	4.5-5.5	0	0	0	0
HxF:								
Humatas----------	0-5	---	9.0-17	4.5-5.5	0	0	0	0
	5-28	---	3.0-14	4.5-5.5	0	0	0	0
	28-60	---	3.0-17	4.5-5.5	0	0	0	0
Hy:								
Hydraquents----------	0-60	---	---	---	---	---	0.0-2.0	---
Hz:								
Hydraquents----------	0-60	---	---	6.1-7.8	---	---	16.0-32.0	---
Jg:								
Jacaguas----------	0-14	20-30	---	7.4-7.8	0-5	0	0.0-2.0	0-10
	14-60	20-30	---	7.4-7.8	0-30	0	0.0-2.0	10-30

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon-ate	Gypsum	Salinity	Sodium adsorp-tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
JnC:								
Jacana----------	0-7	30-50	---	5.6-7.8	0-1	0	0.0-2.0	0
	7-21	30-50	---	5.6-7.8	0-1	0	0.0-2.0	0
	21-27	30-50	---	5.6-7.8	0-1	0	0.0-2.0	0
	27-31	---	---	---	---	---	---	---
JzD:								
Juana Diaz----------	0-7	20-40	---	6.6-7.3	0-5	0	0.0-2.0	0-5
	7-13	20-40	---	6.6-7.3	0-5	0	0.0-2.0	0-5
	13-19	20-40	---	6.6-7.3	0-5	0	0.0-2.0	0-5
	19-23	---	---	---	---	---	---	---
JzE:								
Juana Diaz----------	0-6	20-40	---	6.6-7.3	0-5	0	0.0-2.0	0-5
	6-12	20-40	---	6.6-7.3	0-5	0	0.0-2.0	0-5
	12-18	20-40	---	6.6-7.3	0-5	0	0.0-2.0	0-5
	18-22	---	---	---	---	---	---	---
LeC:								
Lares----------	0-10	---	25-29	4.5-5.5	0	0	0	0
	10-33	---	20-30	4.5-5.5	0	0	0	0
	33-40	---	20-22	4.5-5.5	0	0	0	0
	40-60	---	29-31	4.5-5.5	0	0	0	0
LmF2:								
Lirios----------	0-5	---	18-24	4.5-5.5	0	0	0	0
	5-28	---	10-18	4.5-5.5	0	0	0	0
	28-60	---	7.0-10	4.5-5.5	0	0	0	0

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon-ate	Gypsum	Salinity	Sodium adsorp-tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
LnB:								
Llanos----------	0-6	30-70	---	6.6-7.3	0-2	0	0.0-2.0	0-5
	6-30	30-70	---	6.6-7.3	0-2	0	0.0-2.0	0-5
	30-50	30-60	---	6.6-7.8	0-2	0	0.0-2.0	0-5
	50-60	30-50	---	7.4-7.8	0-2	0	0.0-2.0	0-10
LnC2:								
Llanos----------	0-5	30-70	---	6.6-7.3	0-2	0	0.0-2.0	0-5
	5-29	30-70	---	6.6-7.3	0-2	0	0.0-2.0	0-5
	29-50	30-60	---	6.6-7.8	0-2	0	0.0-2.0	0-5
	50-60	30-50	---	7.4-7.8	0-2	0	0.0-2.0	0-10
LuE:								
Los Guineos----------	0-7	---	12-23	3.5-5.0	0	0	0	0
	7-72	---	3.0-6.0	3.5-5.0	0	0	0	0
LuF:								
Los Guineos----------	0-5	---	12-23	3.5-5.0	0	0	0	0
	5-60	---	3.0-6.0	3.5-5.0	0	0	0	0
LyFX:								
Los Guineos----------	0-5	---	12-23	3.5-5.0	0	0	0	0
	5-60	---	3.0-6.0	3.5-5.0	0	0	0	0
Maricao----------	0-5	---	12-23	3.5-5.0	0	0	0	0
	5-18	---	10-20	3.5-5.0	0	0	0	0
	18-60	---	8.0-12	3.5-5.0	0	0	0	0

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon-ate	Gypsum	Salinity	Sodium adsorp-tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
Ma:								
Machuelo----------	0-8	30-40	---	7.9-8.4	10-15	0	0	0
	8-60	30-40	---	7.9-8.4	15-30	0	0	0
MeF2:								
Maraguez----------	0-6	25-38	---	5.6-6.5	0	0	0	0
	6-21	20-25	---	5.6-6.5	0	0	0	0
	21-60	15-20	---	5.6-6.5	0	0	0	0
MkF2:								
Maricao----------	0-5	---	12-23	3.5-5.0	0	0	0	0
	5-18	---	10-20	3.5-5.0	0	0	0	0
	18-60	---	8.0-12	3.5-5.0	0	0	0	0
Mr:								
Meros----------	0-16	0.0-10	---	6.6-7.8	10-30	0	0.0-8.0	0-10
	16-60	0.0-10	---	6.6-8.4	10-30	0	0.0-8.0	0-10
MsC:								
Montegrande----------	0-7	30-45	---	5.1-6.5	0	0	0	0
	7-25	40-45	---	5.1-7.8	0	0	0	0
	25-60	41-45	---	7.4-8.4	0	0	0	0
MtE2:								
Morado----------	0-6	48-63	---	6.1-7.3	0	0	0	0
	6-24	48-60	---	6.1-7.3	0	0	0	0
	24-30	45-53	---	6.1-7.3	0	0	0	0
	30-34	---	---	---	---	---	---	---

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon-ate	Gypsum	Salinity	Sodium adsorp-tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
MtF2:								
Morado----------	0-6	48-63	---	6.1-7.3	0	0	0	0
	6-24	48-60	---	6.1-7.3	0	0	0	0
	24-30	45-53	---	6.1-7.3	0	0	0	0
	30-34	---	---	---	---	---	---	---
MuD2:								
Mucara----------	0-7	---	---	5.6-7.3	---	---	0	---
	7-20	---	---	5.6-7.3	---	---	0	---
	20-32	---	---	---	---	---	---	---
	32-36	---	---	---	---	---	---	---
MuE2:								
Mucara----------	0-6	---	---	5.6-7.3	---	---	0	---
	6-20	---	---	5.6-7.3	---	---	0	---
	20-30	---	---	---	---	---	---	---
	30-34	---	---	---	---	---	---	---
MuF2:								
Mucara----------	0-5	---	---	5.6-7.3	---	---	0	---
	5-19	---	---	5.6-7.3	---	---	0	---
	19-30	---	---	---	---	---	---	---
	30-34	---	---	---	---	---	---	---
PaB:								
Paso Seco----------	0-10	30-40	---	6.6-7.8	0-5	0	0.0-2.0	0-2
	10-15	30-40	---	6.6-7.8	0-5	0	0.0-2.0	0-2
	15-32	30-40	---	6.6-7.8	0-5	0	0.0-2.0	0-2
	32-60	30-40	---	7.4-8.4	0-5	0	0.0-2.0	0-2

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon-ate	Gypsum	Salinity	Sodium adsorp-tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
PeF2:								
Pellejas----------	0-5	---	31-45	4.5-5.5	0	0	0	0
	5-11	---	22-39	4.5-5.5	0	0	0	0
	11-15	---	15-20	4.5-5.5	0	0	0	0
	15-60	---	5.0-20	4.5-5.5	0	0	0	0
QeD2:								
Quebrada----------	0-8	25-30	---	5.6-6.5	0	0	0	0
	8-15	25-30	---	6.6-7.3	0	0	0	0
	15-60	15-20	---	6.6-7.3	0	0	0	0
QeE2:								
Quebrada----------	0-7	25-30	---	5.6-6.5	0	0	0	0
	7-14	25-30	---	6.6-7.3	0	0	0	0
	14-50	15-20	---	6.6-7.3	0	0	0	0
QeF2:								
Quebrada----------	0-6	25-30	---	5.6-6.5	0	0	0	0
	6-12	25-30	---	6.6-7.3	0	0	0	0
	12-60	15-20	---	6.6-7.3	0	0	0	0
Re:								
Reilly----------	0-8	20-25	---	5.6-6.5	0	0	0	0
	8-16	1.0-10	---	5.6-6.5	0	0	0	0
	16-60	1.0-10	---	5.6-6.5	0	0	0	0
Rw:								
Riverwash----------	---	---	---	---	---	---	---	---
Unnamed----------	---	---	---	---	---	---	---	---

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon-ate	Gypsum	Salinity	Sodium adsorp-tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
Sa:								
San Anton----------	0-22	20-50	---	6.6-8.4	0-1	0	0.0-2.0	0-2
	22-27	25-50	---	6.6-8.4	0-1	0	0.0-2.0	0-2
	27-34	25-50	---	6.6-8.4	0-1	0	0.0-2.0	0-2
	34-52	20-40	---	6.6-8.4	0-1	0	0.0-2.0	0-2
	52-60	10-35	---	6.6-8.4	0-5	0	0.0-2.0	0-2
Se:								
Serrano----------	0-4	10-15	---	9.1-11.0	0-10	0-2	4.0-8.0	5-15
	4-9	10-30	---	9.1-11.0	0-10	0-2	4.0-8.0	5-15
	9-14	20-40	---	9.1-11.0	0-10	0-2	8.0-16.0	20-40
	14-21	5.0-10	---	9.1-11.0	0-10	0-2	8.0-16.0	20-40
	21-50	0.0-10	---	9.1-11.0	0-10	0-2	8.0-16.0	20-40
Te:								
Teresa----------	0-15	20-40	---	7.4-9.0	0-2	0	8.0-22.0	15-20
	15-23	25-50	---	7.4-9.0	1-5	0	8.0-22.0	15-20
	23-50	25-40	---	7.4-9.0	1-5	0	8.0-22.0	15-20
	50-60	5.0-20	---	7.4-9.0	1-5	0	8.0-22.0	15-20
Tf:								
Tidal Flats----------	0-60	---	---	---	---	---	16.0-32.0	---
To:								
Toa----------	0-10	23-27	---	5.1-7.3	0	0	0	0
	10-30	21-27	---	5.1-7.3	0	0	0	0
	30-60	20-30	---	6.6-7.8	0	0	0	0

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon-ate	Gypsum	Salinity	Sodium adsorp-tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
TuF:								
Tuque----------	0-11	20-30	---	7.9-8.4	35-40	0	0.0-2.0	0-10
	11-19	---	---	---	---	---	---	---
	19-24	0.0-10	---	7.9-8.4	75-95	0	2.0-4.0	0-10
	24-60	---	---	---	---	---	---	---
YcB:								
Yauco----------	0-11	20-40	---	7.4-8.4	30-40	0	0.0-2.0	0-2
	11-21	20-40	---	7.4-8.4	30-50	0	0.0-2.0	0-2
	21-60	10-30	---	7.9-8.4	50-95	0	0.0-2.0	0-2
YcC:								
Yauco----------	0-10	20-40	---	7.4-8.4	30-40	0	0.0-2.0	0-2
	10-20	20-40	---	7.4-8.4	30-50	0	0.0-2.0	0-2
	20-60	10-30	---	7.9-8.4	50-95	0	0.0-2.0	0-2