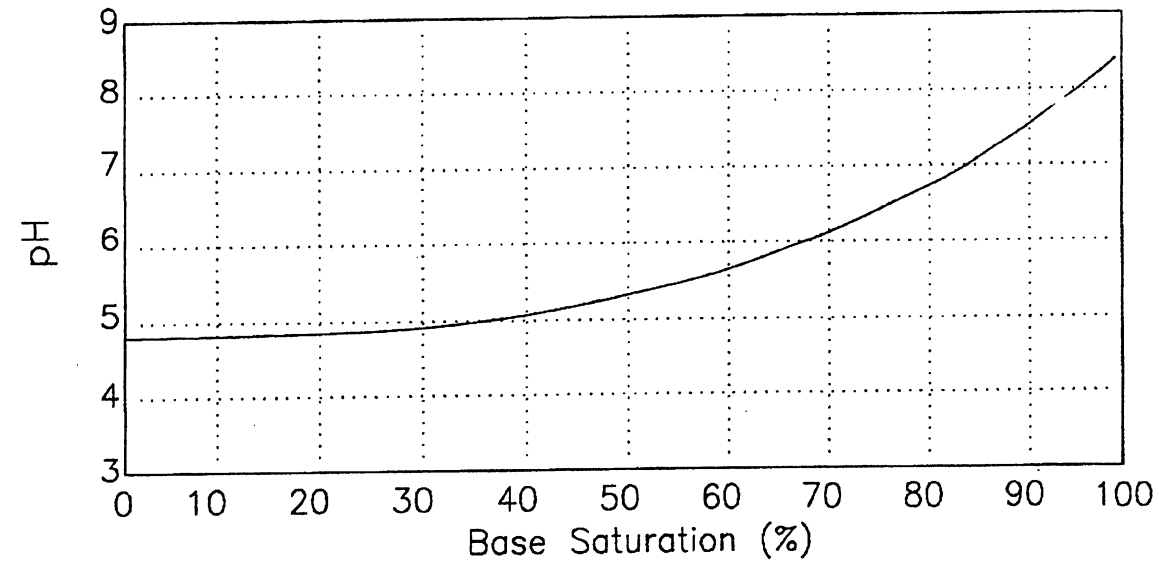


Soil Order: Oxisols with Acid Subsoils

$$y=(4.8265426)+(0.0000036)*X+(0.0000036)*X^2+(0.0000036)*X^3$$



Soil's pH	Ca(OH) ₂ (Lb/Ac)	CaCO ₃ (Lb/Ac)	CaO (Lb/Ac)
3.00	3,164	4,270	2,395
3.10	3,164	4,270	2,395
3.20	3,164	4,270	2,395
3.30	3,164	4,270	2,395
3.40	3,164	4,270	2,395
3.50	3,164	4,270	2,395
3.60	3,164	4,270	2,395
3.70	3,164	4,270	2,395
3.80	3,164	4,270	2,395
3.90	3,164	4,270	2,395
4.00	2,609	3,521	1,975
4.10	2,609	3,521	1,975
4.20	2,609	3,521	1,975
4.30	2,609	3,521	1,975
4.40	2,609	3,521	1,975
4.50	2,609	3,521	1,975
4.60	2,609	3,521	1,975
4.70	2,054	2,772	1,555
4.80	2,054	2,772	1,555
4.90	1,499	2,022	1,135
5.00	1,221	1,648	924
5.10	833	1,124	630
5.20	555	749	420
5.30	389	524	294
5.40	167	225	126
5.50	--	--	--

NOTE:

LIME REQUIREMENT FOR pH ADJUSTMENT SHALL BE PAID USING HYDRATED LIME (Ca(OH)₂) AS THE REFERENCE CHEMICAL AMENDMENT. IF A DIFFERENT TYPE OF LIMING MATERIAL IS USED, THE EQUIVALENT AMOUNT NEEDED SHALL BE ESTIMATED USING THE NEUTRALIZING POWER OF THE LIMING MATERIAL, AND THEREFORE THE PAY FACTOR SHALL BE ADJUSTED TO COMPENSATE FOR THE CORRESPONDING NEUTRALIZING POWER OF THE MATERIAL. THE NEUTRALIZING POWER OF CALCIUM CARBONATE (CaCO₃) IS 74 PERCENT THAT OF HYDRATED LIME, AND CALCIUM OXIDE (CaO) HAS A NEUTRALIZING POWER 132% HIGHER THAN HYDRATED LIME. THE TERM PF INDICATES THE PAY FACTOR THAT WILL BE APPLIED TO EACH MATERIAL; IF THE SAME TONNAGE OF EACH MATERIAL IS APPLIED IN A PROJECT, ONLY 74% OF THAT TONNAGE SHALL BE PAID IF CALCIUM CARBONATE IS APPLIED, OR 132% OF THE TONNAGE SHALL BE PAID IF CALCIUM OXIDE IS APPLIED.

EFFECTIVE DATE: MAY 1998

	Bulk Den. (g/cc)	Weight Lb/Ac	CEC meq/100gr
Max	1.46	1,983,352	18.80
Avg	1.20	1,630,152	9.19
Min	1.00	1,358,460	2.10

MATERIAL	PAY FACTOR
Ca(OH) ₂	1.00
CaCO ₃	0.74
CaO	1.32

COMMONWEALTH OF PUERTO RICO DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY AND TRANSPORTATION AUTHORITY		
EROSION CONTROL pH CALCULATION LIME REQUIREMENTS FOR ACID SOILS		RECOMMENDED BY: <i>[Signature]</i> DESIGN AREA DIRECTOR DATE: <i>May 15, 98</i> APPROVED BY: <i>[Signature]</i> EXECUTIVE DIRECTOR DATE: <i>22-5-98</i> APPROVED BY: <i>[Signature]</i> DIV. ADM. ELWA-PR DIVISION DATE: <i>5-15-98</i>
DATE	REVISION	BY
05-07-1998	GENERAL REVISION	LV.
STD. DWG.	ER	7 OF 20