pH chart

pH value in plant sap

Shortage		pH value	Probability	Risk of
N Nitrogen		8.0	approx. 100%	
P Phosphorus	Too high	7.5	approx. 90%	Insect attack
S Sulphur		7.0	approx. 60%	
		approx. 6.4		Ideal guide value
Ca Calcium		6.0	approx. 60%	
Mg Magnesium	Too low	5.5	approx. 70%	Disease
K Potassium		5.0	approx. 90%	
Na Sodium		4.5	approx. 100%	

Guide values for the pH value of plant sap (juice pressed from leaves) according to Bruce Tainio. The ideal value differs from crop to crop; approx. 6.4 is a general guide value. This is a practical model, the probabilities are not scientifically validated. A high sap pH can also indicate a nitrate excess.

pH value in soil

Classification	pH range
Ultra acidic	< 3.5
Extremely acidic	3.5 - 4.4
Very strongly acidic	4.5 - 5.0
Strongly acidic	5.1 - 5.5
Moderately acidic	5.6 - 6.0
Slightly acidic	6.1 - 6.5
Neutral	6.6 - 7.3
Slightly alkaline	7.4 - 7.8
Moderately alkaline	7.9 - 8.4
Strongly alkaline	8.5 - 9.0
Very strongly alkaline	> 9.0

Soil pH classification according to USDA NRCS (Soil Survey Manual).

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