

AgroLab, Inc. Soil Fertility for Lawns & Gardens Quick Reference Guide

The following information is provided to better assist AgroLab customers in the interpretation of the analytical data.

Buffer pH Liming Table

In general, one should consider lime if pH is below 6.0. Lime recommendations provided by AgroLab are based on the amount of typical Lime (65% ECCE) needed to change the current pH to 6.5. Single applications should not exceed 50 lbs per 1,000 sq. ft.

	Target Soil pH				
Soil Buffer pH	5.2	5.8	6.2	6.5	6.8
6.9					
6.8					
6.7					
6.6					
6.5					
6.4					
6.3					
	Gray area: Consider lime amendment				



Quick Reference:

Approximate % Sufficiency is defined as the plant's potential growth and yield. A sufficiency of 80% (low rating) means the plant growth/yield will be 80% of its potential, if nutrients are not applied.

AgroLab Mehlich 3 Soil Test P ppm	Approximate % Sufficiency	Sufficiency Levels	
0-25	25-50	Low	
26-50	51-89	Medium	
51-100	90-99	Optimum	
100+100		Excessive	
AgroLab Mehlich 3 Soil Test K ppm	Approximate % Sufficiency	Sufficiency Levels	
0-46	25-50	Low	
47-91	51-89	Medium	
92-182	90-99	Optimum	
183+	100	Excessive	
Note: based on Deln	arva soils (OM: 1-5%)		
AgroLab Mehlich 3 Soil Test Ca ppm	Approximate % Sufficiency	Sufficiency Levels	
0-250	25-50	Low	
256-500	51-89	Medium	
501-1,000	90-99	Optimum	
1,000+	100	Excessive	
AgroLab Mehlich 3 Soil Test Mg ppm	Approximate % Sufficiency	Sufficiency Levels	
0-33	25-50	Low	
34-66	51-89	Medium	
67-131	90-99	Optimum	
131+	100	Excessive	

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Common conversions for turf, golf course, garden and yard applications:

1 lb.	2.5 tsps.	1/4 tsp.	
3 lbs.	2.25 tbsps.	3/4 tsp.	
4 lbs.	3 tbsps.	1 tsp.	
5 lbs.	4 tbsps.	1 1/4 tsps.	
10 lbs.	.25 lbs, or 1/2 cup	2 tsps.	
50 lbs.	1.15 lbs.	.25 lb.	
100 lbs	2.25 lbs.	.25 lb.	
200 lbs.	4.5 lbs.	1/2 lb.	
300 lbs.	6.75 lbs.	3/4 lb.	

Rate/Acre Rate/1000 sq. ft. Rate/100 sq. ft.





General Fertilizer Tips

- AgroLab fertilizer recommendations are based on the annual demand and provide as N P₂O₅ K₂O. Fertilizer values are also expressed in N P₂O₅ K₂O. 100 lbs of 18-0-10 represents 18 lbs N, 0 lbs P₂O₅ and 10 lbs of K₂O.
- Good fertilizer practices will promote healthy plant growth and reduce nutrient runoff.
- For a single annual fertilizer application in the fall (Sept.-Oct.), nitrogen should not exceed 1 lb per 1,000 square feet unless the fertilizer is a controlled release fertilizer.
- For soil phosphorus with a test level of sufficient or greater, do not apply phosphorus; for low or deficient levels, do not apply more than 1 lb of P_2O_5 per 1,000 sq. ft. per year.
- For multiple fertilizer applications, "spoon" feeding the nitrogen is best when applied in the fall and spring. Summer applications should be avoided unless irrigation is in place.
- Phosphorus, Potassium and Lime in general should be applied in the early fall (Sept.-Oct.).
- Avoid plant stress: Stress is commonly seen and caused by under fertilization, over fertilization, weed pressure, compaction, cutting lawns too short, overwatering, removing clippings and disease pressure.

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