

## SOIL FERTILITY RATINGS

*COMPARE YOUR SOIL TESTS WITH THE RATINGS IN THE CHARTS BELOW*

Nutrient (ppm)	Very Low	Low	Medium	High	Very High	Best Use of Test
Phosphorus P						
Olsen Bicarbonate	0-3	4-9	10-16	17-30	30+	neutral, alkaline, calcareous
Bray-1	0-5	6-12	13-25	26-50	51+	neutral, acidic
Bray-2	*	*	*	*	*	pH dependent
Mehlich-2	0-5	6-12	13-25	26-50	51+	wide range of soils
Mehlich-3	0-5	6-12	13-25	26-50	51+	wide range of soils
Potassium K	0-40	41-80	81-120	121-200	201+	
Sulfate	0-4	5-7	8-11	12-15	16+	low organic matter
Magnesium Mg	0-10	11-20	21-35	36-50	51+	
Zinc Zn	0-0.25	0.26-0.50	0.51-0.75	0.76-1.00	1.01+	alkaline soils
Iron Fe	0-1.0	1.1-2.0	2.1-4.5	4.6-10.0	10.1+	alkaline soils
Copper Cu	0-0.10	0.11-0.20	0.21-0.30	0.31-0.60	0.61+	
Manganese Mn	0-0.5	0.6-1.0	1.1-1.5	1.6-4.0	4.1+	alkaline soils
Boron B	0-0.10	0.11-0.25	0.26-0.50	0.51-2.00	2.10+	
Aluminum						
KCl Exchangeable	0-1	2-5	6-20	21-40	40+	for acid soils

\*Predicts amount of insoluble tricalcium phosphate

CEC ranges for different soil textures, pH<7.0	
Sand	<6
Sandy Loam	5-10
Loam	9-18
Clay Loam	15-25
Clay	>22

1:1 pH	pH Rating
<5.4	Strongly acidic
5.4-5.7	Moderately acidic
5.8-6.2	Slightly acidic
6.3-7.3	Neutral
>7.3	Alkaline

Soluble Salts	mmho/cm
No crop hazard	0-1.5
Yield reduction on sensitive crops	1.6-3.0
Moderate yield reduction	3.1-5.5
Severe yield reduction	5.6+