

# FedC Fe e Rec e da F A a a Ve e ab e

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## Soil Acidity

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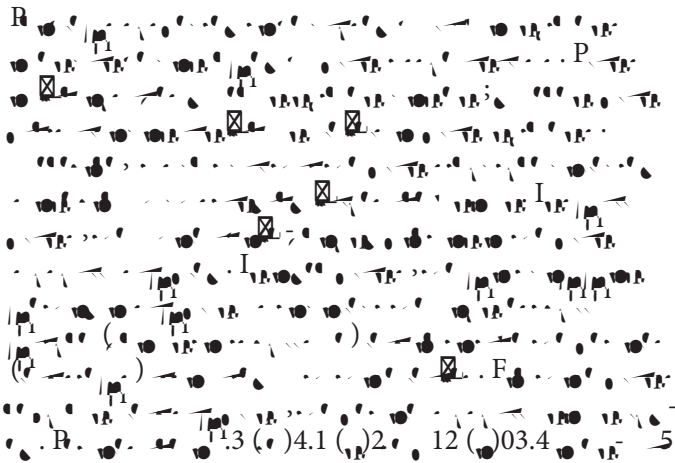
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**Table 4. Salt-sensitivity of vegetable crops**

Beets	highly tolerant
Broccoli	moderately tolerant
Cabbage	moderately tolerant
Carrots	moderately tolerant
Cauliflower	moderately tolerant
Celery	sensitive
Cucumbers	moderately tolerant
Lettuce	moderately tolerant
Peas	moderately tolerant
Radishes	sensitive
Squash	moderately tolerant

Source: . 1954. USDA Agriculture Handbook Number 60.

### Tissue Analysis



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**Table 5. Recommended potassium application rates for vegetables**

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Table 9. Nutrient sufficiency ranges for selected vegetables<sup>1</sup>

			%		
Nitrogen	4.00 – 5.50	3.20 – 5.50	2.20 – 5.50	3.00 – 5.00	3.00 – 5.00
Phosphorus	0.25 – 0.50	0.30 – 0.75	0.26 – 0.75	0.35 – 0.75	0.30 – 0.75
Potassium	2.00 – 4.50	2.00 – 4.00	2.00 – 4.00	3.50 – 6.00	3.00 – 5.00
Calcium	2.50 – 3.50	1.00 – 2.50	0.30 – 2.50	3.00 – 4.50	1.10 – 3.50
Magnesium	0.30 – 1.00	0.23 – 0.75	0.23 – 0.75	0.50 – 2.00	0.24 – 0.75
Sulfur	—	0.30 – 0.75	0.30 – 0.75	—	0.30 – 0.75
			ppm		
Boron	30 – 85	30 – 100	30 – 100	25 –	25 – 75
Copper	5 – 15	5 – 15	5 – 15	5 – 15	5 – 15
Iron	50 – 200	70 – 300	60 – 300	30 – 200	30 – 200
Manganese	50 – 250	25 – 200	25 – 200	50 – 200	25 – 200
Molybdenum	—	—	0.25 – 1.00	—	0.40 – 0.70
Zinc	15 – 200	35 – 200	25 – .00	25 – 200	20 – 200
			%		
Nitrogen	1.80 – 3.50	3.00 – 3.50	3.00 – 4.50	2.50 – 3.50	4.50 – 5.50
Phosphorus	0.20 – 0.50	0.20 – 0.40	0.33 – 0.80	0.30 – 0.50	0.50 – 0.60
Potassium	2.00 – 4.30	2.90 – 3.50	2.60 – 4.20	4.00 – 7.00	7.50 – 9.00
Calcium	1.40 – 3.00	1.00 – 2.00	0.70 – 3.50	0.60 – 3.00	3.00 – 5.50
Magnesium	0.30 – 0.53	0.25 – 0.60	0.24 – 0.50	0.20 – 0.50	0.35 – 0.50
			ppm		
Boron	29 – 100	30 – 75	30 – 100	30 – 50	23 – 75
Copper	4.5 – 15	5 – 15	4 – 15	5 – 8	5 – 25
Iron	50 – 300	50 – 300	30 – 200	20 – 40	31 – 200
Manganese	60 – 200	60 – 200	25 – 250	200 – 300	25 – 200
Molybdenum	0.5 – 1.5	0.5 – 1.4	0.5 – 0.8	—	—
Zinc	20 – 250	20 – 250	20 – 250	20 – 50	30 – 200
			%		
Nitrogen	3.50 – 4.50	3.50 – 5.00	3.50 – 5.00		
Phosphorus	0.45 – 0.80	0.40 – 0.60	0.33 – 0.60		
Potassium	5.50 – 6.20	6.00 – 9.60	3.50 – 5.00		
Calcium	2.00 – 2.80	1.40 – 2.25	1.50 – 4.00		
Magnesium	0.60 – 0.80	0.36 – 0.70	0.30 – 1.00		
			ppm		
Boron	25 – 60	23 – 50	30 – 100		
Copper	5 – 25	7 – 25	6 – 25		
Iron	40 – 100	50 – 175	40 – 300		
Manganese	11 – 250	20 – 250	40 – 250		
Zinc	20 – 250	25 – 250	20 – 250		

<sup>1</sup> Standard nutrient levels are for plant parts and growth stages specified in Table 8.

