

| Mehlich-3 Values for Relative Level Categories | | | | | | |
|--|---|----------|----------------|-----------|-----------|-----------|
| Macronutrients | | very low | low | medium | high | very high |
| Phosphorus | pounds/acre | 0-24 | 25-45 | 46-71 | 72-137 | >137 |
| Potassium | pounds/acre | 0-40 | 41-81 | 82-145 | 146-277 | >277 |
| Magnesium | pounds/acre | 0-45 | 46-83 | 84-143 | 144-295 | >295 |
| Calcium | pounds/acre | 0-615 | 616-1007 | 1008-1400 | 1401-1790 | >1790 |
| Notes: | | | | | | |
| Values for soil test categories are specific to the extractant used, in this case Mehlich-3. | | | | | | |
| The "high" category is considered optimum fertility. Categories "very low", "low", and "medium" are below optimum; "very high" is above optimum (excessive). | | | | | | |
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| Micronutrients | | | critical level | high | | |
| Zinc | | ppm soil | 1.0 | 50 | | |
| Copper | | ppm soil | 0.5 | 20 | | |
| Boron | | ppm soil | 0.5 | 20 | | |
| Iron | | ppm soil | 50 | 100 | | |
| Manganese | pH dependent: calculate an activity index | | | | | |
| | MnAI = 101.7 + 3.75Mn - 15.2pH | | 25 | 100 | | |
| Notes: | | | | | | |
| Micronutrient categories are less well defined than macronutrient categories. Values below the "critical level" should be considered deficient; values above "high" should be considered a warning. Certain micronutrients can be toxic to plants at excessive levels. | | | | | | |
| In addition to its effect on manganese availability, soil pH also affects availability of other micronutrients. Aeration can also be a factor. See Micronutrient Statements or specified Fact Sheets for more information. | | | | | | |