

**SNA Mehlich 3 Test (M3)** determines the concentration and ratios of soil base cations Calcium, Magnesium, Potassium, and Sodium. Cation Exchange Capacity (CEC) balancing is the foundation of regenerative agriculture and can be extremely useful in creating a platform for biological soil health. It is typically used in the fall to monitor soils for annual mineral enrichment or a 1-time soil correction. By combining traditional CEC testing with our Leaf Extract Analysis in one database, growers have the opportunity to understand how cation ratios can affect plant nutrient uptake and balance through Interception.



## **SUBMISSION INSTRUCTIONS:**

1. **Collect** a representative sample from each test block by taking 10+ cores. Mix all the cores together and provide at least 2 cups of soil per test.
2. **Place** the sample into a Ziploc or Apical provided submission bag. The maximum size of each sample should not exceed 1 quart.
3. **Fill** out SNA M3 report order form online at [www.apical-ag.com/grower/order](http://www.apical-ag.com/grower/order)
4. **Print** out submission form and attach necessary forms to each submission bag.
5. **Ensure** samples remain viable by minimizing shipping time and using cold packs and/or insulated packaging when shipping in warm conditions. Wrap frozen cold packs in paper to insulate them from direct contact with sample bags.
6. **Mail** samples (including check/money order or paid submission form) to:

**Apical Crop Science LLC  
1382 SE 3rd Ave, Suite 4  
Canby, OR 97013**

**DO NOT SEND ANY INTERNATIONAL LEAF, SOIL, WATER, CNA SAMPLES WITHOUT PRIOR WRITTEN APPROVAL FROM APICAL. SUBMISSIONS THAT DO NOT COMPLY WITH THE ESTABLISHED SAMPLING PROTOCOL WILL BE DEEMED INVALID.**

## **TIPS FOR BEST RESULTS:**

- Depth of each core should be determined by the average plant height. See chart.
- Sample size should be a minimum of 2 cups.
- Sample weak or troubled areas separately.
- Test method typically utilized in the Fall.
- Take samples when the soil is at Field Capacity (not saturated or overly dry).

<b>Crop Height</b>	<b>Core Depth</b>
0-12"	0-6"
12-30"	0-10"
30"+	0-16"