

## MZB® ZONE MAP

Fields are zoned with up to 12 management zones, creating a MZB® Zone Map. Layers used during our patented zoning process include electrical conductivity, RTK elevation and a yield potential layer. Satellite imagery or yield data can be used as the yield potential layer.

Zones are individually soil sampled to establish optimal nutrient efficiencies. This enables the agronomist to develop a custom management plan that can include fertilizer and seed population recommendations. After a soil sample has been taken, the level of detail from mapping and sampling the field uncovers both excess and deficient nutrient carryover levels that often have a direct correlation to historical yield.

Lastly, a prescription is generated by the agronomist that accounts for the farmer's planting and application equipment and controls. The MZB® Zone Map is the perfect complement to variable-rate and multi-hybrid seeding.

This multi-layer approach helps identify variability in residual nutrients in the soil — variability that single-layer zone management programs may not see.

### IN THE ZONE

**Zones 1-3:** Zones based on elevation and yield potential. Higher-elevated areas such as ridges or hilltops will yield differently than lower areas where water and nutrients accumulate.

**Zones 4-6:** These lower-yield zones feature high, medium and low soil electrical conductivity relative to the rest of the field.

**Zones 7-9:** Medium-yield zones feature high, medium and low soil electrical conductivity relative to the rest of the field.

**Zones 10-12:** High-yield zones feature high, medium and low soil electrical conductivity relative to the rest of the field.

### DEFINITIONS

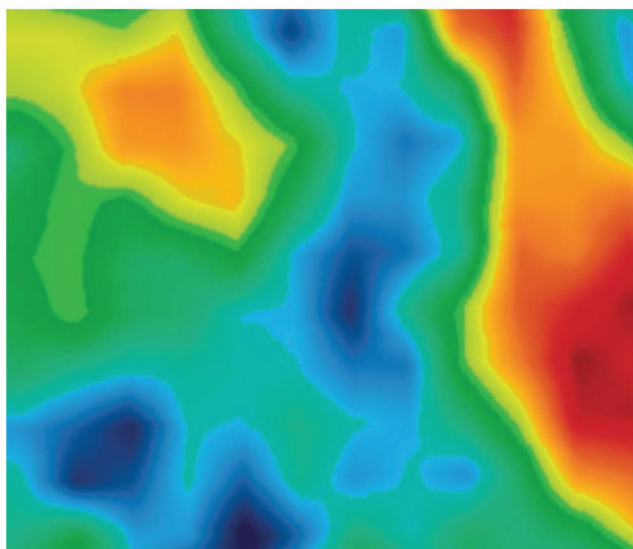
- Real Time Kinematic (RTK) elevation is used to determine the areas of a field most affected by elevation differences.
- ElectroMagnetic Soil Mapping (EM) is measured by using an EM38, which allows us to accurately define changes in soil properties across the field.
- EM High = High soil electrical conductivity relative to the rest of the field.
- EM Med = Average soil electrical conductivity relative to the rest of the field.
- EM Low = Low soil electrical conductivity relative to the rest of the field.
- Yield data pertains to the measure of plant vigor through the use of satellite imagery or actual yields measured by a combine yield monitor.

### MZB® Zone Map Descriptions

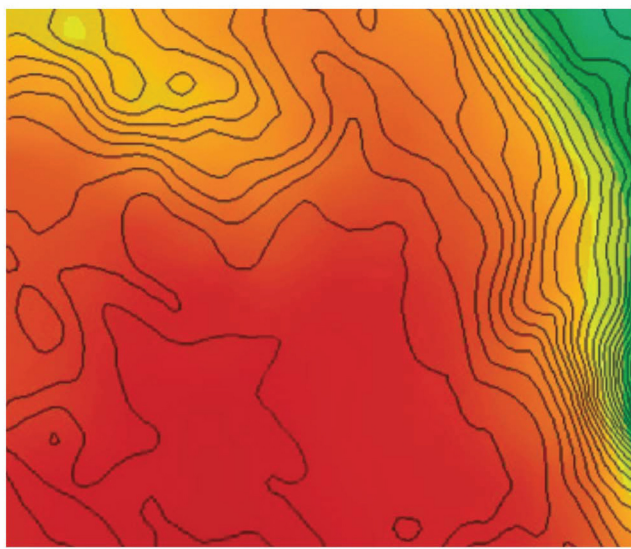
- |    |                                      |
|----|--------------------------------------|
| 1  | Hilltop, Ridge or High-sloping Area  |
| 2  | High-producing Depression            |
| 3  | Low to Medium-producing Depression   |
| 4  | EM High and Low Yield Potential      |
| 5  | EM Medium and Low Yield Potential    |
| 6  | EM Low and Low Yield Potential       |
| 7  | EM High and Medium Yield Potential   |
| 8  | EM Medium and Medium Yield Potential |
| 9  | EM Low and Medium Yield Potential    |
| 10 | EM High and High Yield Potential     |
| 11 | EM Medium and High Yield Potential   |
| 12 | EM Low and High Yield Potential      |

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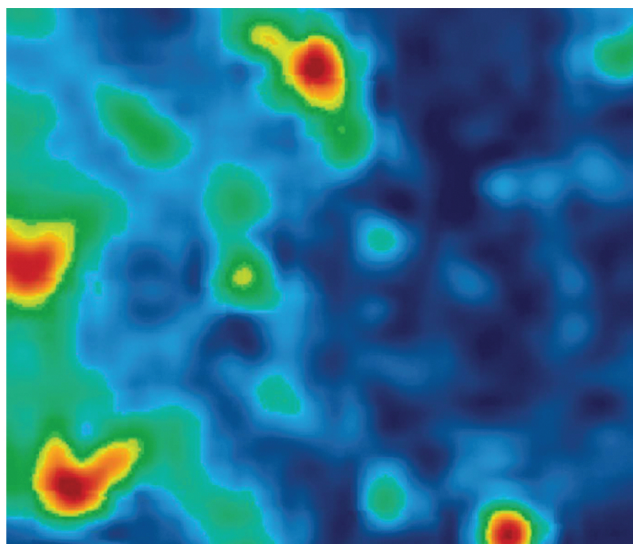
Once the soil EM, RTK-measured elevation, GNDVI satellite image or yield data are collected, the data is processed by the FIELDREVEAL™ Mapping Center, where a MZB® Zone Map is created with up to 12 different management zones within a single field.



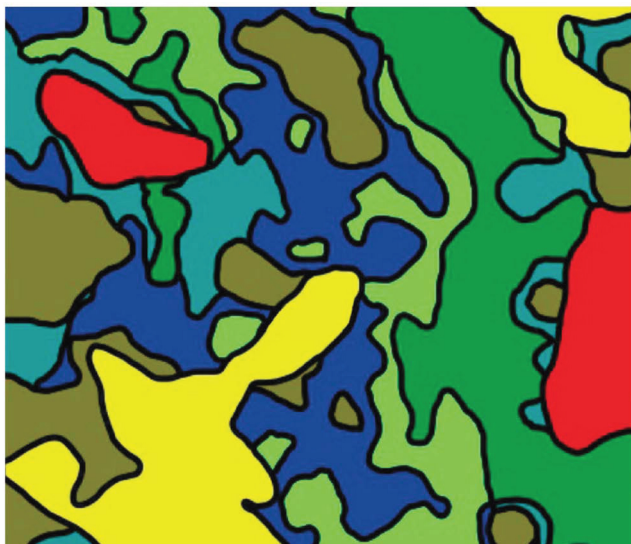
**SOIL EM**



**RTK ELEVATION**



**GNDVI SATELLITE IMAGE**



**ZONE MAP**