THE SITUATION

Did you know that approximately 50 pounds of residue are produced for each bushel of corn harvested? This means a 200 bushel corn crop produces 4.73 tons of residue. All of this residue ties up valuable nutrients in the soil.

4.73 tons of residue contains:
- 75 pounds of Nitrogen = $31 (28%)
- 26 pounds of Phosphorus = $14 (MAP)
- 124 pounds of Potash = $37 (Potash)

Costs per lb of NPK based on eastern corn belt retail prices Sept 2018. Source: HarvestThePotential.com

Applying a residue treatment within two weeks after corn harvest has regularly shown a 4-5 bushel increase in soybean yield the following year.

THE PROBLEM

If conditions are not suitable for decomposition, heavy residue will tie up nutrients and host pathogens for overwintering.
**UltraMate LQ**

UltraMate LQ........................................1 gal/acre
UAN or 28%.................................3 gal/acre

The carbon in UltraMate LQ stabilizes nitrogen in the soil and has some carbon immediately available to jump start microbial activity to degrade the corn fodder.

**Mixing Recommendations:** Start with a minimum of 12 gallons of water. Agitate throughout the mixing process. This mixture can be applied with fall burndown products, including glyphosate.

**Humic DG™**

Humic DG........................................40 lbs/acre

Humic DG contains the full spectrum of humic substances: humic acid, fulvic acid, and humin. By applying Humic DG with a dry fertilizer program, this carbon increases efficiency of N and P, while acting as a food source for microbes.

Humic DG features DG technology which creates a dust free, spherical, ultra dry particle that rapidly disperses into thousands of microparticles upon contact with moisture.

**EEZY™ CAL 10% AND SWEET ‘N EEZY™**

Eezy Cal 10%..............................1-2 gal/acre
Sweet ‘N Eezy........................1-4 pint/acre

The form of calcium in Eezy Cal enters directly into the colloidal structure. It contains calcium, nitrogen and a natural carbon source, all three of which are essential to building and sustaining highly diverse and large populations of microbes. Sweet ‘N Eezy contains a sugar and a carbon source, providing food for microbes. Combine products together for maximum effect to stimulate microbial activity.

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**RESEARCH**

**SOYBEAN YIELD BY MANAGEMENT ZONE**

<table>
<thead>
<tr>
<th>LEGEND</th>
<th>MANAGEMENT ZONE</th>
<th>AVG</th>
<th>AVG MOISTURE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>28% + UltraMate</td>
<td>64.45</td>
<td>9.18%</td>
</tr>
<tr>
<td></td>
<td>Untreated</td>
<td>58.70</td>
<td>9.79%</td>
</tr>
<tr>
<td></td>
<td>28% + Experimental</td>
<td>57.92</td>
<td>8.85%</td>
</tr>
<tr>
<td></td>
<td>All</td>
<td>60.20</td>
<td>9.27%</td>
</tr>
</tbody>
</table>

**DRY YIELD - SOYBEANS - 2015**

- 5.27 - 38.29 (2.16 ac)
- 38.47 - 59.39 (8.37 ac)
- 59.41 - 70.68 (7.75 ac)
- 70.71 - 116.62 (5.61 ac)
- 118.99 - 150 (0.02 ac)

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