SUL4R-PLUS® Fertilizer
Real World Evaluation 2019
• Crop Type: Corn
• Crop Season: 2019
• Location: Adairville, Kentucky
• Trial type: Side-by-side
• Coordinated by: Ralph Hart
• Farmer Standard was 50 #:/acre of K-MAG.
• Other notes: Pivot Irrigated corn. Everything in the field managed the same, except for the addition of SUL4R-PLUS B+Z fertilizer.

Grain yield advantage using SUL4R-PLUS B+Z

<table>
<thead>
<tr>
<th>Practice</th>
<th>Grain yield (bu/a)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUL4R-PLUS B+Z</td>
<td>301.2</td>
</tr>
<tr>
<td>Farmer standard Practice</td>
<td>278.8</td>
</tr>
</tbody>
</table>

Yield advantage: 22.4 bu/a
- **Crop Type:** Corn
- **Crop Season:** 2019
- **Location:** Adairville, Kentucky
- **Trial type:** Side-by-side
- **Coordinated by:** Ralph Hart
- **Other notes:** Non-Irrigated corn
- **Farmer Standard** was 50 #/acre K-MAG. Everything in the field managed the same, except for the addition of SUL4R-PLUS B+Z fertilizer.

Grain yield advantage using SUL4R-PLUS B+Z

<table>
<thead>
<tr>
<th>Grain yield (bu/a)</th>
<th>SUL4R-PLUS B+Z</th>
<th>Farmer standard</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>223.5</td>
<td>210.4</td>
</tr>
</tbody>
</table>

Yield advantage: 13.1 bu/a
Crop Type: Corn
Crop Season: 2019
Location: Oak Grove, Kentucky
Trial type: Replicated Strips – 4 reps
Coordinated by: Ralph Hart
Farmer Standard was 5#/acre Zinc Oxide.
Everything in the field managed the same, except for the addition of SUL4R-PLUS B+Z fertilizer.
Other notes: Tissue testing at R1

Tissue sampling nutrient analysis for each practice.

<table>
<thead>
<tr>
<th>Practice</th>
<th>N (%)</th>
<th>Ca (%)</th>
<th>S (%)</th>
<th>B (ppm)</th>
<th>Zn (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUL4R-PLUS B+Z</td>
<td>3.65</td>
<td>0.92</td>
<td>0.38</td>
<td>10</td>
<td>24</td>
</tr>
<tr>
<td>Grower standard</td>
<td>3.02</td>
<td>0.48</td>
<td>0.21</td>
<td>4</td>
<td>14</td>
</tr>
</tbody>
</table>

Yield advantage: 7.6 bu/a
Crop Type: Corn
Crop Season: 2019
Location: Carmi, Illinois
Trial type: Side-by-side
Coordinated by: Ralph Hart
Farmer Standard was 20#/acre elemental sulfur.
Everything in the field managed the same, except for the addition of SUL4R-PLUS B+Z fertilizer.
Other notes: Tissue testing at R1
Crop Type: Corn
Crop Season: 2019
Location: Germantown, Ohio
Trial type: Side-by-side
Coordinated by: Ralph Hart
Farmer Standard was 3-gallons/acre of Thio-Sul applied in row.
Everything in the field managed the same, except for the addition of SUL4R-PLUS B+Z fertilizer.

Grain yield advantage using SUL4R-PLUS B+Z
Yield advantage: 21.1 bu/a

<table>
<thead>
<tr>
<th>Practice</th>
<th>N (%)</th>
<th>Ca (%)</th>
<th>S (%)</th>
<th>B (ppm)</th>
<th>Zn (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUL4R-PLUS B+Z</td>
<td>3.86</td>
<td>0.55</td>
<td>0.36</td>
<td>21</td>
<td>36</td>
</tr>
<tr>
<td>Grower standard</td>
<td>2.95</td>
<td>0.26</td>
<td>0.19</td>
<td>11</td>
<td>24</td>
</tr>
</tbody>
</table>
• Crop Type: Soybean
• Crop Season: 2019
• Location: Adairville, Kentucky
• Trial type: Side-by-side
• Coordinated by: Ralph Hart
• Farmer Standard was 50 #/acre of K-MAG
• Everything in the field managed the same, except for the addition of SUL4R-PLUS B+Z fertilizer.

Grain yield advantage using SUL4R-PLUS B+Z

Yield advantage: 9.8 bu/a

Grain yield (bu/a)

SUL4R-PLUS B+Z  Farmer standard

63.2  53.4

Practice
Crop Type: Winter Wheat
Crop Season: 2019
Location: Bandana, Kentucky (Birney)
Trial type: Replicated strips
Coordinated by: Ralph Hart
Other notes: A total of 140 lbs. N was applied to both treatments. There was MESZ 10 spread over the entire field and then additional strips of SUL4R-PLUS B+Z added. Tissue sampling was from the flag leaf on 4/19/19.

### Tissue sampling nutrient analysis for each practice.

<table>
<thead>
<tr>
<th>Practice</th>
<th>N (%)</th>
<th>Ca (%)</th>
<th>S (%)</th>
<th>B (ppm)</th>
<th>Zn (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUL4R-PLUS B+Z</td>
<td>3.55</td>
<td>0.8</td>
<td>0.29</td>
<td>3</td>
<td>13</td>
</tr>
<tr>
<td>Grower standard</td>
<td>3.06</td>
<td>0.56</td>
<td>0.23</td>
<td>2</td>
<td>14</td>
</tr>
</tbody>
</table>
Crop Type: Winter Wheat
Crop Season: 2019
Location: Bandana, Kentucky (Miller)
Trial type: Replicated strips
Coordinated by: Ralph Hart
Other notes: A total of 140 lbs. N was applied to both treatments. The treatments differences were DAP/SUL4R-PLUS B+Z versus MESZ 10 where both treatments had the same amount of P. Tissue sampling was from the flag leaf on 4/19/19.

**Grain yield advantage using SUL4R-PLUS B+Z**

Yield advantage: 15 bu/a

<table>
<thead>
<tr>
<th>Grain yield (bu/a)</th>
<th>SUL4R-PLUS B+Z</th>
<th>Farmer standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>92</td>
<td></td>
<td>77</td>
</tr>
</tbody>
</table>

**Tissue sampling nutrient analysis for each practice.**

<table>
<thead>
<tr>
<th>Practice</th>
<th>Nutrient concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N (%)</td>
</tr>
<tr>
<td>SUL4R-PLUS B+Z</td>
<td>4.27</td>
</tr>
<tr>
<td>Grower standard</td>
<td>3.56</td>
</tr>
</tbody>
</table>
**SUL4R-PLUS®**

**Macronutrients**

- **S (Sulfur)**
- **Ca (Calcium)**

**Micronutrients**

- **Zn (Zinc)**
- **B (Boron)**

**Macrobenefits**

- Delivers Calcium, Sulfur, Zinc, Boron, and other nutrients
- 100% plant-available nutrients when crops need them
- Every granule contains the nutrients
- Uniform particle size and density for consistent blending and spread
- 120° spread capability
- More granules per square foot for even feeding
- Dust free handling
- Low salt index
- Phosphorus free
- Formulation flexibility
- Lower operating costs

**Free sample**

SUL4R-PLUS.COM

**SUL4R-PLUS® Fertilizer**

Delivers Calcium, Sulfur with options for Zinc, Boron, and other nutrients

100% plant-available nutrients when crops need them

Every granule contains the nutrients

Uniform particle size and density for consistent blending and spread

120° spread capability

More granules per square foot for even feeding

Dust free handling

Low salt index

Phosphorus free

Formulation flexibility

Lower operating costs

It's all about the PLUS.

SUL4R-PLUS.COM