

Comparisons of PRE/POST Weed Control Programs in Field Corn at Rochester, MN in 2015

Behnken, Lisa M., Fritz R. Breitenbach, Dillon Welter and Brent Breitenbach

The objective of this trial was to evaluate PRE/POST programs for weed control and crop response in field corn in southeastern Minnesota. The research site was a Lawler loam series with a pH of 6.1, O.M. of 2.5%, and soil test P and K levels of 38 ppm and 203 ppm, respectively. Spring fertilizer was broadcast ahead of planting on April 13, 2015 at a rate of 120-23-90-24 (N-P-K-S). The field was spring disked and field cultivated once prior to planting. The previous crop was soybean. The corn hybrid, NK Brand 45P-3011A, was planted May 1, 2015 at a depth of 1.5 inches in 30 inch rows at a rate of 32,000 seeds per acre. A randomized complete block design was used with four replications. Preemergence (PRE) and postemergence (POST) treatments were applied with a tractor-mounted sprayer delivering 15 gpa at 40 psi using TTI 110015 spray tips. Evaluations of the plots were taken May 15, May 27, June 3, June 18, and August 13. The center two rows of each plot were machine harvested on October 30, 2015. Application dates, environmental conditions and weed stages can be found in Table 1. Performance ratings for giant ragweed, common lambsquarter, common waterhemp, and grass control, plus crop response ratings are found in Tables 2 through 6, respectively. (University of Minnesota Extension Regional Office, Rochester.)

Table 1. Application timing, plant stage, environmental conditions

| Date | 5/1 | 5/22 | 5/28 | 6/8 |
|---|------------|---------------|----------------|-----------------|
| Treatment | PRE (A) | POST I (B) | POST II (C) | POST III (D) |
| Temperature (F) | | | | |
| Air | 62 | 64 | 74 | 77 |
| Soil | 54.5 | 65.7 | 64.6 | 78.8 |
| Relative Humidity (%) | 35 | 37 | 64 | 51 |
| Wind (mph) | 16 | 4 | 12 | 15 |
| Soil Moisture | Normal | Normal | Normal | Normal |
| Corn | | | | |
| Stage | | 1-collar | V2 | V5 |
| Height (inch) | | 2.5 | 5.0 | 10.0 |
| Giant Ragweed | | | | |
| Weed Density (ft ²) | | | 14 | 28 |
| Height (inch) | | 1.5 | 4.0 | 2.6 |
| Common Waterhemp | | | | |
| Weed Density (ft ²) | | | 16 | 48.0 |
| Height (inch) | | 0.4 | 0.8 | 1.6 |
| Common Lambsquarter | | | | |
| Weed Density (ft ²) | | | 18 | 45 |
| Height (inch) | | 0.3 | 1.0 | 1.1 |
| Grass | | | | |
| Weed Density (ft ²) | | | 3 | 38 |
| Height (inch) | | 0.3 | 0.5 | 1.9 |
| Rainfall after each application (inch) | | | | |
| Week 1 | 1.17 | 1.45 | 1.32 | 1.64 |
| Week 2 | 0.83 | 1.32 | 1.41 | 0.83 |
| Week 3 | 1.07 | 2.82 | 1.69 | 2.06 |

Table 2. Comparisons of Pre/Post Programs for Control of Giant Ragweed in Field Corn at Rochester Minnesota, 2015.

| Pest Code | Pest Name | Rating | Date | AMBTR | | | | | YIELD Oct-30 |
|---|--------------------|----------------|------|---------------------|------------|------------|------------|------------|-----------------|
| | | | | Giant ragweed | | | | | |
| Trt | Treatment | Rate | Appl | May-15 | May-27 | Jun-3 | Jun-18 | Aug-13 | |
| | | | | Percent Control (%) | | | | | |
| 7 | UNTREATED CHECK | | | 0 e | 0 f | 0 g | 0 f | 0 f | 1 f |
| PRE / POST II 5-1-15 / 5-28-15 | | | | | | | | | |
| 2 | SOA 9,14,15 | | | 16 d | 24 e | 93 abc | 85 c | 76 d | 101 c |
| | ANTHEM | 10 fl oz/a | A | | | | | | |
| | ROUNDUP POWERMAX32 | 32 fl oz/a | C | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | C | | | | | | |
| 3 | SOA 5,9,14,15 | | | 42 c | 76 c | 94 ab | 83 cd | 74 d | 78 d |
| | ANTHEM | 10 fl oz/a | A | | | | | | |
| | AATREX | 32 fl oz/a | A | | | | | | |
| | ROUNDUP POWERMAX32 | 32 fl oz/a | C | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | C | | | | | | |
| 6 | SOA 9,14,15,27 | | | 19 d | 23 e | 93 abc | 95 a | 93 a | 143 ab |
| | ANTHEM | 8 fl oz/a | A | | | | | | |
| | SOLSTICE | 3 fl oz/a | C | | | | | | |
| | ROUNDUP POWERMAX32 | 32 fl oz/a | C | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | C | | | | | | |
| PRE / POST III 5-1-15 / 6-8-15 | | | | | | | | | |
| 1 | SOA 2,4,9,14,15, | | | 92 a | 93 a | 91 cd | 97 a | 95 a | 149 ab |
| | ANTHEM | 10 fl oz/a | A | | | | | | |
| | STANZA | 5 oz/a | A | | | | | | |
| | ROUNDUP POWERMAX32 | 32 fl oz/a | D | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | D | | | | | | |
| 4 | SOA 2,4,9,15 | | | 82 b | 84 b | 83 f | 97 a | 94 a | 145 ab |
| | SURESTART II | 2 pt/a | A | | | | | | |
| | ROUNDUP POWERMAX32 | 32 fl oz/a | D | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | D | | | | | | |
| 5 | SOA 2,4,9,14,15 | | | 95 a | 92 a | 90 d | 97 a | 96 a | 155 a |
| | STANZA | 5 oz/a | A | | | | | | |
| | SHARPEN | 2 fl oz/a | A | | | | | | |
| | ANTHEM | 8 fl oz/a | D | | | | | | |
| | ROUNDUP POWERMAX32 | 32 fl oz/a | D | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | D | | | | | | |
| POST I 5-22-15 | | | | | | | | | |
| 8 | SOA 5,9,14,15 | | | 0 e | 84 b | 92 bcd | 84 cd | 78 cd | 114 c |
| | ANTHEM ATZ | 32 fl oz/a | B | | | | | | |
| | ROUNDUP POWERMAX32 | 32 fl oz/a | B | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | B | | | | | | |
| | NIS | 0.25 % v/v | B | | | | | | |
| 9 | SOA 9,15,27 | | | 0 e | 68 d | 92 bcd | 91 b | 88 b | 143 ab |
| | HALEX GT | 3.6 pt/a | B | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | B | | | | | | |
| | NIS | 0.25 % v/v | B | | | | | | |
| 10 | SOA 5,9,14,15,27 | | | 0 e | 88 b | 95 a | 96 a | 94 a | 138 b |
| | ANTHEM | 4.25 fl oz/a | B | | | | | | |
| | SOLSTICE | 2.5 fl oz/a | B | | | | | | |
| | AATREX | 16 fl oz/a | B | | | | | | |
| | ROUNDUP POWERMAX32 | 32 fl oz/a | B | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | B | | | | | | |
| 11 | SOA 9 | | | 0 e | 73 c | 88 e | 60 e | 60 e | 35 e |
| | ROUNDUP POWERMAX32 | 32 fl oz/a | B | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | B | | | | | | |
| POST II 5-28-15 | | | | | | | | | |
| 12 | SOA 9 | | | 0 e | 0 f | 94 ab | 81 d | 81 c | 76 d |
| | ROUNDUP POWERMAX32 | 32 fl oz/a | C | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | C | | | | | | |
| LSD P=.10 for weed ratings, LSD P = .20 for yields | | | | 3.8 | 4.4 | 2.4 | 3.3 | 4.7 | 17 |

Means followed by same letter do not significantly differ.

Table 3. Comparisons of Pre/Post Programs for Control of Common Lambsquarters in Field Corn at Rochester, MN 2015.

| Pest Code | Pest Name | Rating Date | CHEAL | | | | YIELD Oct-30 | | | | | |
|---|------------------|----------------|----------------------|-------|------------|--------|-----------------|---|------------|-----|-----------|----|
| | | | Common lambsquarters | | | | | | | | | |
| | | | May-27 | Jun-3 | Jun-18 | Aug-13 | | | | | | |
| Trt Treatment | Rate | Appl | Percent Control (%) | | | | | | | | | |
| 7 | UNTREATED CHECKI | | 0 | d | 0 | d | 0 | d | 0 | f | 1 | f |
| PRE / POST II 5-1-15 / 5-28-15 | | | | | | | | | | | | |
| 2 | SOA 9,14,15 | | 98 | a | 99 | a | 99 | a | 95 | bc | 101 | c |
| | ANTHEM | 10 fl oz/a | | A | | | | | | | | |
| | ROUNDUP POWERMAX | 32 fl oz/a | | C | | | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | | C | | | | | | | | |
| 3 | SOA 5,9,14,15 | | 99 | a | 99 | a | 98 | a | 95 | c | 78 | d |
| | ANTHEM | 10 fl oz/a | | A | | | | | | | | |
| | AATREX | 32 fl oz/a | | A | | | | | | | | |
| | ROUNDUP POWERMAX | 32 fl oz/a | | C | | | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | | C | | | | | | | | |
| 6 | SOA 9,14,15,27 | | 98 | a | 99 | a | 99 | a | 98 | a | 143 | ab |
| | ANTHEM | 8 fl oz/a | | A | | | | | | | | |
| | SOLSTICE | 3 fl oz/a | | C | | | | | | | | |
| | ROUNDUP POWERMAX | 32 fl oz/a | | C | | | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | | C | | | | | | | | |
| PRE / POST III 5-1-15 / 6-8-15 | | | | | | | | | | | | |
| 1 | SOA 2,4,9,14,15, | | 99 | a | 99 | a | 99 | a | 97 | abc | 149 | ab |
| | ANTHEM | 10 fl oz/a | | A | | | | | | | | |
| | STANZA | 5 oz/a | | A | | | | | | | | |
| | ROUNDUP POWERMAX | 32 fl oz/a | | D | | | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | | D | | | | | | | | |
| 4 | SOA 2,4,9,15 | | 99 | a | 99 | a | 99 | a | 97 | abc | 145 | ab |
| | SURESTART II | 2 pt/a | | A | | | | | | | | |
| | ROUNDUP POWERMAX | 32 fl oz/a | | D | | | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | | D | | | | | | | | |
| 5 | SOA 2,4,9,14,15 | | 99 | a | 99 | a | 99 | a | 99 | a | 155 | a |
| | STANZA | 5 oz/a | | A | | | | | | | | |
| | SHARPEN | 2 fl oz/a | | A | | | | | | | | |
| | ANTHEM | 8 fl oz/a | | D | | | | | | | | |
| | ROUNDUP POWERMAX | 32 fl oz/a | | D | | | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | | D | | | | | | | | |
| POST I 5-22-15 | | | | | | | | | | | | |
| 8 | SOA 5,9,14,15 | | 88 | b | 99 | a | 99 | a | 98 | abc | 114 | c |
| | ANTHEM ATZ | 32 fl oz/a | | B | | | | | | | | |
| | ROUNDUP POWERMAX | 32 fl oz/a | | B | | | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | | B | | | | | | | | |
| | NIS | 0.25 % v/v | | B | | | | | | | | |
| 9 | SOA 9,15,27 | | 70 | c | 99 | a | 99 | a | 98 | ab | 143 | ab |
| | HALEX GT | 3.6 pt/a | | B | | | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | | B | | | | | | | | |
| | NIS | 0.25 % v/v | | B | | | | | | | | |
| 10 | SOA 5,9,14,15,27 | | 91 | b | 99 | a | 99 | a | 99 | a | 138 | b |
| | ANTHEM | 4.25 fl oz/a | | B | | | | | | | | |
| | SOLSTICE | 2.5 fl oz/a | | B | | | | | | | | |
| | AATREX | 16 fl oz/a | | B | | | | | | | | |
| | ROUNDUP POWERMAX | 32 fl oz/a | | B | | | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | | B | | | | | | | | |
| 11 | SOA 9 | | 73 | c | 95 | c | 79 | c | 79 | e | 35 | e |
| | ROUNDUP POWERMAX | 32 fl oz/a | | B | | | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | | B | | | | | | | | |
| POST II 5-28-15 | | | | | | | | | | | | |
| 12 | SOA 9 | | 0 | d | 97 | b | 86 | b | 86 | d | 76 | d |
| | ROUNDUP POWERMAX | 32 fl oz/a | | C | | | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | | C | | | | | | | | |
| LSD P=.10 for weed ratings, LSD P = .20 for yields | | | 4.1 | | 1.3 | | 2.4 | | 2.6 | | 17 | |

Means followed by same letter do not significantly differ.

Table 5. Comparisons of Pre/Post Programs for Control of Grass species in Field Corn at Rochester, MN in 2015.

| Pest Code | Pest Name | Rating Date | GRASS | | | | YIELD Oct-30 | | | | | | | |
|---|-----------|------------------|--------------------|---------------------|------------|--------|-----------------|---|------------|---|------------|---|-----------|----|
| | | | <i>Grangea sp.</i> | | | | | | | | | | | |
| | | | May-27 | Jun-3 | Jun-18 | Aug-13 | | | | | | | | |
| Trt | Treatment | Rate | Appl | Percent Control (%) | | | | | | | | | | |
| | 7 | UNTREATED CHECK | | | 0 | e | 0 | d | 0 | d | 0 | e | 1 | f |
| PRE / POST II 5-1-15 / 5-28-15 | | | | | | | | | | | | | | |
| | 2 | SOA 9,14,15 | | | 99 | a | 99 | a | 99 | a | 96 | a | 101 | c |
| | | ANTHEM | 10 | fl oz/a | | | | | | | | | | |
| | | ROUNDUP POWERMAX | 32 | fl oz/a | | | | | | | | | | |
| | | Ammonium Sulfate | 3.3 | lb/100 gal | | | | | | | | | | |
| | 3 | SOA 5,9,14,15 | | | 99 | a | 99 | a | 99 | a | 97 | a | 78 | d |
| | | ANTHEM | 10 | fl oz/a | | | | | | | | | | |
| | | AATREX | 32 | fl oz/a | | | | | | | | | | |
| | | ROUNDUP POWERMAX | 32 | fl oz/a | | | | | | | | | | |
| | | Ammonium Sulfate | 3.3 | lb/100 gal | | | | | | | | | | |
| | 6 | SOA 9,14,15,27 | | | 99 | a | 99 | a | 99 | a | 96 | a | 143 | ab |
| | | ANTHEM | 8 | fl oz/a | | | | | | | | | | |
| | | SOLSTICE | 3 | fl oz/a | | | | | | | | | | |
| | | ROUNDUP POWERMAX | 32 | fl oz/a | | | | | | | | | | |
| | | Ammonium Sulfate | 3.3 | lb/100 gal | | | | | | | | | | |
| PRE / POST III 5-1-15 / 6-8-15 | | | | | | | | | | | | | | |
| | 1 | SOA 2,4,9,14,15, | | | 99 | a | 99 | a | 99 | a | 98 | a | 149 | ab |
| | | ANTHEM | 10 | fl oz/a | | | | | | | | | | |
| | | STANZA | 5 | oz/a | | | | | | | | | | |
| | | ROUNDUP POWERMAX | 32 | fl oz/a | | | | | | | | | | |
| | | Ammonium Sulfate | 3.3 | lb/100 gal | | | | | | | | | | |
| | 4 | SOA 2,4,9,15 | | | 99 | a | 99 | a | 99 | a | 95 | a | 145 | ab |
| | | SURESTART II | 2 | pt/a | | | | | | | | | | |
| | | ROUNDUP POWERMAX | 32 | fl oz/a | | | | | | | | | | |
| | | Ammonium Sulfate | 3.3 | lb/100 gal | | | | | | | | | | |
| | 5 | SOA 2,4,9,14,15 | | | 90 | b | 92 | b | 99 | a | 98 | a | 155 | a |
| | | STANZA | 5 | oz/a | | | | | | | | | | |
| | | SHARPEN | 2 | fl oz/a | | | | | | | | | | |
| | | ANTHEM | 8 | fl oz/a | | | | | | | | | | |
| | | ROUNDUP POWERMAX | 32 | fl oz/a | | | | | | | | | | |
| | | Ammonium Sulfate | 3.3 | lb/100 gal | | | | | | | | | | |
| POST I 5-22-15 | | | | | | | | | | | | | | |
| | 8 | SOA 5,9,14,15 | | | 84 | c | 99 | a | 99 | a | 97 | a | 114 | c |
| | | ANTHEM ATZ | 32 | fl oz/a | | | | | | | | | | |
| | | ROUNDUP POWERMAX | 32 | fl oz/a | | | | | | | | | | |
| | | Ammonium Sulfate | 3.3 | lb/100 gal | | | | | | | | | | |
| | | NIS | 0.25 | % v/v | | | | | | | | | | |
| | 9 | SOA 9,15,27 | | | 70 | d | 99 | a | 99 | a | 97 | a | 143 | ab |
| | | HALEX GT | 3.6 | pt/a | | | | | | | | | | |
| | | Ammonium Sulfate | 3.3 | lb/100 gal | | | | | | | | | | |
| | | NIS | 0.25 | % v/v | | | | | | | | | | |
| | 10 | SOA 5,9,14,15,27 | | | 84 | c | 98 | a | 96 | a | 94 | a | 138 | b |
| | | ANTHEM | 4.25 | fl oz/a | | | | | | | | | | |
| | | SOLSTICE | 2.5 | fl oz/a | | | | | | | | | | |
| | | AATREX | 16 | fl oz/a | | | | | | | | | | |
| | | ROUNDUP POWERMAX | 32 | fl oz/a | | | | | | | | | | |
| | | Ammonium Sulfate | 3.3 | lb/100 gal | | | | | | | | | | |
| | 11 | SOA 9 | | | 68 | d | 88 | c | 53 | c | 53 | c | 35 | e |
| | | ROUNDUP POWERMAX | 32 | fl oz/a | | | | | | | | | | |
| | | Ammonium Sulfate | 3.3 | lb/100 gal | | | | | | | | | | |
| POST II 5-28-15 | | | | | | | | | | | | | | |
| | 12 | SOA 9 | | | 0 | e | 97 | a | 75 | b | 75 | b | 76 | d |
| | | ROUNDUP POWERMAX | 32 | fl oz/a | | | | | | | | | | |
| | | Ammonium Sulfate | 3.3 | lb/100 gal | | | | | | | | | | |
| LSD P=.10 for weed ratings, LSD P = .20 for yields | | | | | 5.3 | | 3.1 | | 3.8 | | 3.9 | | 17 | |

Means followed by same letter do not significantly differ.

Table 6. Crop response to Pre/Post Weed Control Programs in Field Corn at Rochester, MN, 2015.

| Date | | | | CROP RESPONSE | | | | | | YIELD | |
|---|------------------|----------------|------|--------------------|---|------------|---|------------|---|-----------|----|
| | | | | May-27 | | Jun-3 | | Jun-18 | | | |
| Trt | Treatment | Rate | Appl | Percent Injury (%) | | | | | | Bu/A | |
| 7 | UNTREATED CHECKI | | | 0 | d | 0 | d | 0 | c | 1 | f |
| PRE / POST II 5-1-15 / 5-28-15 | | | | | | | | | | | |
| 2 | SOA 9,14,15 | | | 0 | d | 0 | d | 0 | c | 101 | c |
| | ANTHEM | 10 fl oz/a | A | | | | | | | | |
| | ROUNDUP POWERMAX | 32 fl oz/a | C | | | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | C | | | | | | | | |
| 3 | SOA 5,9,14,15 | | | 0 | d | 0 | d | 0 | c | 78 | d |
| | ANTHEM | 10 fl oz/a | A | | | | | | | | |
| | AATREX | 32 fl oz/a | A | | | | | | | | |
| | ROUNDUP POWERMAX | 32 fl oz/a | C | | | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | C | | | | | | | | |
| 6 | SOA 9,14,15,27 | | | 0 | d | 10 | a | 5 | b | 143 | ab |
| | ANTHEM | 8 fl oz/a | A | | | | | | | | |
| | SOLSTICE | 3 fl oz/a | C | | | | | | | | |
| | ROUNDUP POWERMAX | 32 fl oz/a | C | | | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | C | | | | | | | | |
| PRE / POST III 5-1-15 / 6-8-15 | | | | | | | | | | | |
| 1 | SOA 2,4,9,14,15, | | | 0 | d | 0 | d | 0 | c | 149 | ab |
| | ANTHEM | 10 fl oz/a | A | | | | | | | | |
| | STANZA | 5 oz/a | A | | | | | | | | |
| | ROUNDUP POWERMAX | 32 fl oz/a | D | | | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | D | | | | | | | | |
| 4 | SOA 2,4,9,15 | | | 0 | d | 0 | d | 0 | c | 145 | ab |
| | SURESTART II | 2 pt/a | A | | | | | | | | |
| | ROUNDUP POWERMAX | 32 fl oz/a | D | | | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | D | | | | | | | | |
| 5 | SOA 2,4,9,14,15 | | | 0 | d | 0 | d | 15 | a | 155 | a |
| | STANZA | 5 oz/a | A | | | | | | | | |
| | SHARPEN | 2 fl oz/a | A | | | | | | | | |
| | ANTHEM | 8 fl oz/a | D | | | | | | | | |
| | ROUNDUP POWERMAX | 32 fl oz/a | D | | | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | D | | | | | | | | |
| POST I 5-22-15 | | | | | | | | | | | |
| 8 | SOA 5,9,14,15 | | | 16 | b | 6 | b | 0 | c | 114 | c |
| | ANTHEM ATZ | 32 fl oz/a | B | | | | | | | | |
| | ROUNDUP POWERMAX | 32 fl oz/a | B | | | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | B | | | | | | | | |
| | NIS | 0.25 % v/v | B | | | | | | | | |
| 9 | SOA 9,15,27 | | | 9 | c | 4 | c | 0 | c | 143 | ab |
| | HALEX GT | 3.6 pt/a | B | | | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | B | | | | | | | | |
| | NIS | 0.25 % v/v | B | | | | | | | | |
| 10 | SOA 5,9,14,15,27 | | | 19 | a | 9 | a | 0 | c | 138 | b |
| | ANTHEM | 4.25 fl oz/a | B | | | | | | | | |
| | SOLSTICE | 2.5 fl oz/a | B | | | | | | | | |
| | AATREX | 16 fl oz/a | B | | | | | | | | |
| | ROUNDUP POWERMAX | 32 fl oz/a | B | | | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | B | | | | | | | | |
| 11 | SOA 9 | | | 0 | d | 0 | d | 0 | c | 35 | e |
| | ROUNDUP POWERMAX | 32 fl oz/a | B | | | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | B | | | | | | | | |
| POST II 5-28-15 | | | | | | | | | | | |
| 12 | SOA 9 | | | 0 | d | 0 | d | 0 | c | 76 | d |
| | ROUNDUP POWERMAX | 32 fl oz/a | C | | | | | | | | |
| | Ammonium Sulfate | 3.3 lb/100 gal | C | | | | | | | | |
| LSD P=.10 for weed ratings, LSD P = .20 for yields | | | | 2.0 | | 1.5 | | 1.1 | | 17 | |

Means followed by same letter do not significantly differ.