

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C01-14 Study Dir.: Sprague and Powell
 Conducted: Campus T-17 Investigator: Christy Sprague

Date Planted: May/08/2014 Row Spacing: 30 IN
 Variety: P9807 AM No. of Reps: 4
 Population: 32,000 seeds/A % OM: 4.1
 Soil Type: Loam pH: 6.6
 Plot Size: 10 X 35 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall chisel plow, spring soil finish
 Fertilizer: 300 lb urea broadcast, 150 lb 19-19-19 starter

Crop and Weed Description

| Weed | Code | Common Name | Scientific Name |
|------|-------|------------------------|-----------------------------|
| 1. | ANGR | mainly foxtail species | SETARIA SP. |
| 2. | CHEAL | LAMBSQUARTERS, COMMON | CHENOPODIUM ALBUM L. |
| 3. | AMAPO | AMARANTH, POWELL | AMARANTHUS POWELLII S.WATS. |
| 4. | AMBEL | RAGWEED, COMMON | AMBROSIA ARTEMISIIFOLIA L. |
| 5. | ABUTH | VELVETLEAF | ABUTILON THEOPHRASTI MEDIK. |
| Crop | Code | Common Name | |
| 1. | ZEAMX | CORN, FIELD | |

Application Description

| | A | B | C |
|-----------------------|-------------|-------------|-------------|
| Application Timing: | PRE | EPOS | POST |
| Date Treated: | May/08/2014 | Jun/01/2014 | Jun/09/2014 |
| Time Treated: | 7:45 AM | 9:30 AM | 9:25 AM |
| % Cloud Cover: | 100 | 50 | 20 |
| Air Temp., Unit: | 85 F | 76 F | 69 F |
| % Relative Humidity: | 48.9 | 46.2 | 61.0 |
| Wind Speed/Unit/Dir: | 6 mph S | 4 mph S | 3 mph NE |
| Soil Temp., Unit: | 60 F | 62 F | 61 F |
| Soil/Leaf Surface M: | 4 - | 5 5 | 5 5 |
| Soil Moist (1=w 5=d): | 4 | 5 | 5 |

Crop Stage at Each Application

| | A | B | C |
|---------------|-------|-------|-------|
| Crop Name: | ZEAMX | ZEAMX | ZEAMX |
| Height (In.): | - | 6" | 13" |
| Stage (L): | - | V3-V4 | V5-V6 |

Weed Stage at Each Application

| | A | B | C |
|---------------|-------|-------|-------|
| Weed 1 Name: | ANGR | ANGR | ANGR |
| Height (In.): | - | 2.5" | 4" |
| Stage (L): | - | 4 | 4 |
| Weed 2 Name: | CHEAL | CHEAL | CHEAL |
| Height (In.): | - | 1" | 2" |
| Stage (L): | - | 4-6 | 10 |
| Weed 3 Name: | AMAPO | AMAPO | AMAPO |
| Height (In.): | - | 0.75" | 2" |
| Stage (L): | - | 4 | 8 |
| Weed 4 Name: | AMBEL | AMBEL | AMBEL |
| Height (In.): | - | 1" | 2" |
| Stage (L): | - | 4-6 | 6 |
| Weed 5 Name: | ABUTH | ABUTH | ABUTH |
| Height (In.): | - | 1" | 2" |
| Stage (L): | - | 2 | 4 |

Weed Density (plants/sq. ft.)

| | 1 | 2 | 3 | 4 | 5 |
|------------|-------------|-------------|-------------|-------------|-------------|
| Date: | Jul/17/2014 | Jul/17/2014 | Jul/17/2014 | Jul/17/2014 | Jul/17/2014 |
| Weed Name: | ANGR | CHEAL | AMAPO | AMBEL | ABUTH |
| Density: | 1 | 4 | <1 | 5 | 1 |

Application Equipment

| Appl | Sprayer Type | Speed MPH | Nozzle Type | Nozzle Size | Nozzle Height | Nozzle Spacing | Boom Width | GPA | Carrier | PSI |
|------|--------------|-----------|-------------|-------------|---------------|----------------|------------|-----|---------|-----|
| A | Cub | 3.8 | AIXR | 11003 | 21" | 20" | 100" | 19 | Water | 30 |
| B | Cub | 3.8 | AIXR | 11003 | 25" | 20" | 100" | 19 | Water | 30 |
| C | Cub | 3.8 | AIXR | 11003 | 25" | 20" | 100" | 19 | Water | 30 |

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Trial ID: C01-14
 Conducted: Campus T-17

Study Dir.: Sprague and Powell
 Investigator: Christy Sprague

| Weed Code | Crop Code | Rating Data Type | Rating Unit | Rating Date | Trt-Eval Interval | # Subsamples, Dec. | ZEAMX injury percent | ANGR control percent | CHEAL control percent | AMAPO control percent | |
|-----------|----------------------|------------------|-------------|-------------|-------------------|--------------------|----------------------|----------------------|-----------------------|-----------------------|----|
| | | | | | | | Jun/09/2014 32 DA-A | Jun/09/2014 32 DA-A | Jun/09/2014 32 DA-A | Jun/09/2014 32 DA-A | |
| | | | | | | | 0 | 0 | 0 | 0 | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | | | | |
| 1 | Lexar EZ | 3.7 | L | 3 | qt/a | PRE | A | 0 | 98 | 99 | 99 |
| 2 | Corvus | 2.63 | L | 5.6 | fl oz/a | PRE | A | 0 | 99 | 99 | 99 |
| 2 | AAtrex | 90 | WG | 1.67 | lb/a | PRE | A | | | | |
| 3 | Balance FLEXX | 2 | L | 4 | fl oz/a | PRE | A | 0 | 99 | 99 | 99 |
| 3 | Bicep II Magnum | 5.5 | L | 2 | qt/a | PRE | A | | | | |
| 4 | Keystone NXT | 5.6 | L | 2.4 | qt/a | PRE | A | 0 | 99 | 99 | 99 |
| 4 | Hornet WDG | 68.5 | WG | 3 | oz/a | PRE | A | | | | |
| 5 | Capreno | 3.45 | L | 3 | fl oz/a | EPOS | B | 7 | 79 | 99 | 99 |
| 5 | AAtrex | 90 | WG | 1.1 | lb/a | EPOS | B | | | | |
| 5 | Crop oil concentrate | | L | 1 | % v/v | EPOS | B | | | | |
| 5 | AMS | | WG | 8.5 | lb/100 gal | EPOS | B | | | | |
| 6 | SureStart II | 4.16 | L | 2 | pt/a | EPOS | B | 0 | 99 | 81 | 99 |
| 6 | Durango DMA | 4 | SL | 24 | fl oz/a | EPOS | B | | | | |
| 6 | AMS | | WG | 17 | lb/100 gal | EPOS | B | | | | |
| 7 | Outlook | 6 | L | 18 | fl oz/a | EPOS | B | 0 | 99 | 99 | 99 |
| 7 | Armezon | 2.8 | L | 0.75 | fl oz/a | EPOS | B | | | | |
| 7 | AAtrex | 90 | WG | 0.56 | lb/a | EPOS | B | | | | |
| 7 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | EPOS | B | | | | |
| 7 | AMS | | WG | 17 | lb/100 gal | EPOS | B | | | | |
| 8 | Halex GT | 4.38 | L | 3.6 | pt/a | EPOS | B | 0 | 95 | 97 | 99 |
| 8 | Surfactant | | L | 0.25 | % v/v | EPOS | B | | | | |
| 8 | AMS | | WG | 8.5 | lb/100 gal | EPOS | B | | | | |
| 9 | Realm Q | 38.7 | WG | 4 | oz/a | EPOS | B | 0 | 95 | 99 | 99 |
| 9 | AAtrex | 90 | WG | 1.1 | lb/a | EPOS | B | | | | |
| 9 | Abundit Extra | 3 | SL | 32 | fl oz/a | EPOS | B | | | | |
| 9 | AMS | | WG | 2 | lb/a | EPOS | B | | | | |
| 10 | Untreated | | | | | | | 0 | 0 | 0 | 0 |
| 11 | Harness Xtra | 5.6 | L | 1.6 | qt/a | PRE | A | 0 | 95 | 99 | 99 |
| 11 | Impact | 2.8 | L | 0.75 | fl oz/a | POST | C | | | | |
| 11 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | |
| 11 | MSO | | L | 1 | % v/v | POST | C | | | | |
| 11 | N-Pack AMS | | L | 2.5 | % v/v | POST | C | | | | |
| 12 | Balance FLEXX | 2 | L | 4 | fl oz/a | PRE | A | 0 | 90 | 99 | 99 |
| 12 | Liberty | 2.34 | L | 22 | fl oz/a | POST | C | | | | |
| 12 | AAtrex | 90 | WG | 1.1 | lb/a | POST | C | | | | |
| 12 | AMS | | WG | 8.5 | lb/100 gal | POST | C | | | | |
| 13 | SureStart II | 4.16 | L | 2 | pt/a | PRE | A | 0 | 93 | 97 | 99 |
| 13 | Durango DMA | 4 | SL | 24 | fl oz/a | POST | C | | | | |
| 13 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 14 | TripleFLEX | 4.16 | L | 1.75 | pt/a | PRE | A | 0 | 96 | 99 | 99 |
| 14 | Roundup PowerMax | 4.5 | L | 22 | fl oz/a | POST | C | | | | |
| 14 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |

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Trial ID: C01-14 Study Dir.: Sprague and Powell
 Conducted: Campus T-17 Investigator: Christy Sprague

| Weed Code | | | | | | | | ZEAMX | ANGR | CHEAL | AMAPO |
|--------------------|-------------------|-----------|-----------|------|------------|----------|-----------|-------------|-------------|-------------|-------------|
| Crop Code | | | | | | | | injury | control | control | control |
| Rating Data Type | | | | | | | | percent | percent | percent | percent |
| Rating Unit | | | | | | | | Jun/09/2014 | Jun/09/2014 | Jun/09/2014 | Jun/09/2014 |
| Rating Date | | | | | | | | 32 DA-A | 32 DA-A | 32 DA-A | 32 DA-A |
| Trt-Eval Interval | | | | | | | | 0 | 0 | 0 | 0 |
| # Subsamples, Dec. | | | | | | | | | | | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | | | | |
| 15 | TripleFLEX | 4.16 | L | 1.75 | pt/a | PRE | A | 0 | 92 | 99 | 99 |
| 15 | AAtrex | 90 | WG | 1.1 | lb/a | PRE | A | | | | |
| 15 | Roundup PowerMax | 4.5 | L | 22 | fl oz/a | POST | C | | | | |
| 15 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 16 | Harness Xtra | 5.6 | L | 1.6 | qt/a | PRE | A | 0 | 99 | 98 | 99 |
| 16 | Roundup PowerMax | 4.5 | L | 22 | fl oz/a | POST | C | | | | |
| 16 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 17 | Degree Xtra | 4 | L | 2 | qt/a | PRE | A | 0 | 96 | 96 | 99 |
| 17 | Roundup PowerMax | 4.5 | L | 22 | fl oz/a | POST | C | | | | |
| 17 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 18 | Bicep II Magnum | 5.5 | L | 2.1 | qt/a | PRE | A | 0 | 98 | 98 | 99 |
| 18 | Callisto GT | 4.18 | L | 2 | pt/a | POST | C | | | | |
| 18 | Surfactant | | L | 0.25 | % v/v | POST | C | | | | |
| 18 | AMS | | WG | 8.5 | lb/100 gal | POST | C | | | | |
| 19 | Breakfree NXT ATZ | 5.6 | L | 2 | qt/a | PRE | A | 0 | 99 | 99 | 99 |
| 19 | Instigate | 45.8 | WG | 6 | oz/a | PRE | A | | | | |
| 19 | Abundit Extra | 3 | SL | 32 | fl oz/a | POST | C | | | | |
| 19 | AMS | | WG | 2 | lb/a | POST | C | | | | |
| 20 | Harness Xtra | 5.6 | L | 1.6 | qt/a | PRE | A | 0 | 99 | 96 | 99 |
| 20 | Impact | 2.8 | L | 0.75 | fl oz/a | POST | C | | | | |
| 20 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | |
| 20 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | |
| 20 | MSO | | L | 0.5 | % v/v | POST | C | | | | |
| 20 | N-Pack AMS | | L | 2.5 | % v/v | POST | C | | | | |
| 21 | Zidua | 85 | WG | 2.5 | oz/a | PRE | A | 0 | 97 | 99 | 99 |
| 21 | Sharpen | 2.85 | L | 2.5 | fl oz/a | PRE | A | | | | |
| 21 | Armezon | 2.8 | L | 0.75 | fl oz/a | POST | C | | | | |
| 21 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | |
| 21 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | |
| 21 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 22 | Verdict | 5.57 | L | 15 | fl oz/a | PRE | A | 0 | 99 | 99 | 99 |
| 22 | AAtrex | 90 | WG | 1.1 | lb/a | PRE | A | | | | |
| 22 | Armezon | 2.8 | L | 0.75 | fl oz/a | POST | C | | | | |
| 22 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | |
| 22 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | |
| 22 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 23 | Verdict | 5.57 | L | 18 | fl oz/a | PRE | A | 0 | 99 | 99 | 99 |
| 23 | Status | 56 | WG | 5 | oz/a | POST | C | | | | |
| 23 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | |
| 23 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 24 | Anthem ATZ | 4.5 | L | 1 | qt/a | PRE | A | 0 | 99 | 98 | 99 |
| 24 | Solstice | 4 | L | 2 | fl oz/a | POST | C | | | | |
| 24 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | |
| 24 | AMS | | WG | 2.5 | lb/a | POST | C | | | | |
| 25 | Lexar EZ | 3.7 | L | 1.5 | qt/a | PRE | A | 0 | 92 | 99 | 99 |
| 25 | Halex GT | 4.38 | L | 3.6 | pt/a | POST | C | | | | |
| 25 | Surfactant | | L | 0.25 | % v/v | POST | C | | | | |
| 25 | AMS | | WG | 8.5 | lb/100 gal | POST | C | | | | |

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| Weed Code | | | | | | | | ZEAMX | ANGR | CHEAL | AMAPO |
|--------------------|------------------|-----------|-----------|-------|------------|----------|-----------|-------------|-------------|-------------|-------------|
| Crop Code | | | | | | | | injury | control | control | control |
| Rating Data Type | | | | | | | | percent | percent | percent | percent |
| Rating Unit | | | | | | | | Jun/09/2014 | Jun/09/2014 | Jun/09/2014 | Jun/09/2014 |
| Rating Date | | | | | | | | 32 DA-A | 32 DA-A | 32 DA-A | 32 DA-A |
| Trt-Eval Interval | | | | | | | | 0 | 0 | 0 | 0 |
| # Subsamples, Dec. | | | | | | | | | | | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | | | | |
| 26 | Prequel | 45 | WG | 1.66 | oz/a | PRE | A | 0 | 94 | 99 | 99 |
| 26 | AAtrex | 90 | WG | 1.1 | lb/a | PRE | A | | | | |
| 26 | Abundit Extra | 3 | SL | 32 | fl oz/a | POST | C | | | | |
| 26 | AMS | | WG | 2 | lb/a | POST | C | | | | |
| 27 | Anthem | 2.15 | L | 8 | fl oz/a | PRE | A | 0 | 97 | 80 | 99 |
| 27 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | |
| 27 | Solstice | 4 | L | 2 | fl oz/a | POST | C | | | | |
| 27 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | |
| 27 | AMS | | WG | 2.5 | lb/a | POST | C | | | | |
| 28 | Dual II Magnum | 7.64 | L | 0.67 | pt/a | PRE | A | 0 | 98 | 0 | 94 |
| 28 | Yukon | 67.5 | WG | 4 | oz/a | POST | C | | | | |
| 28 | Roundup PowerMax | 4.5 | SL | 22 | fl oz/a | POST | C | | | | |
| 28 | Surfactant | | L | 0.125 | % v/v | POST | C | | | | |
| 28 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| LSD (P=.05) | | | | | | | | 1.3 | 6.1 | 2.9 | 2.5 |
| CV | | | | | | | | 369.78 | 4.66 | 2.31 | 1.88 |

Means followed by same letter do not significantly differ (P=.05, LSD)

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Trial ID: C01-14 Study Dir.: Sprague and Powell
 Conducted: Campus T-17 Investigator: Christy Sprague

| Weed Code | | | | | | | | AMBEL | ABUTH | ZEAMX | ANGR |
|--------------------|----------------------|-----------|-----------|------|------------|----------|-----------|-------------|-------------|-------------|-------------|
| Crop Code | | | | | | | | control | control | injury | control |
| Rating Data Type | | | | | | | | percent | percent | percent | percent |
| Rating Unit | | | | | | | | Jun/09/2014 | Jun/09/2014 | Jun/16/2014 | Jun/16/2014 |
| Rating Date | | | | | | | | 32 DA-A | 32 DA-A | 15 DA-B | 15 DA-B |
| Trt-Eval Interval | | | | | | | | 0 | 0 | 0 | 0 |
| # Subsamples, Dec. | | | | | | | | | | | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | | | | |
| 1 | Lexar EZ | 3.7 | L | 3 | qt/a | PRE | A | 99 | 99 | 0 | 97 |
| 2 | Corvus | 2.63 | L | 5.6 | fl oz/a | PRE | A | 99 | 99 | 0 | 99 |
| 2 | AAtrex | 90 | WG | 1.67 | lb/a | PRE | A | | | | |
| 3 | Balance FLEXX | 2 | L | 4 | fl oz/a | PRE | A | 99 | 99 | 0 | 99 |
| 3 | Bicep II Magnum | 5.5 | L | 2 | qt/a | PRE | A | | | | |
| 4 | Keystone NXT | 5.6 | L | 2.4 | qt/a | PRE | A | 99 | 99 | 0 | 99 |
| 4 | Hornet WDG | 68.5 | WG | 3 | oz/a | PRE | A | | | | |
| 5 | Capreno | 3.45 | L | 3 | fl oz/a | EPOS | B | 99 | 99 | 0 | 63 |
| 5 | AAtrex | 90 | WG | 1.1 | lb/a | EPOS | B | | | | |
| 5 | Crop oil concentrate | | L | 1 | % v/v | EPOS | B | | | | |
| 5 | AMS | | WG | 8.5 | lb/100 gal | EPOS | B | | | | |
| 6 | SureStart II | 4.16 | L | 2 | pt/a | EPOS | B | 99 | 99 | 0 | 99 |
| 6 | Durango DMA | 4 | SL | 24 | fl oz/a | EPOS | B | | | | |
| 6 | AMS | | WG | 17 | lb/100 gal | EPOS | B | | | | |
| 7 | Outlook | 6 | L | 18 | fl oz/a | EPOS | B | 99 | 99 | 0 | 99 |
| 7 | Armezon | 2.8 | L | 0.75 | fl oz/a | EPOS | B | | | | |
| 7 | AAtrex | 90 | WG | 0.56 | lb/a | EPOS | B | | | | |
| 7 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | EPOS | B | | | | |
| 7 | AMS | | WG | 17 | lb/100 gal | EPOS | B | | | | |
| 8 | Halex GT | 4.38 | L | 3.6 | pt/a | EPOS | B | 92 | 99 | 0 | 99 |
| 8 | Surfactant | | L | 0.25 | % v/v | EPOS | B | | | | |
| 8 | AMS | | WG | 8.5 | lb/100 gal | EPOS | B | | | | |
| 9 | Realm Q | 38.7 | WG | 4 | oz/a | EPOS | B | 99 | 99 | 0 | 97 |
| 9 | AAtrex | 90 | WG | 1.1 | lb/a | EPOS | B | | | | |
| 9 | Abundit Extra | 3 | SL | 32 | fl oz/a | EPOS | B | | | | |
| 9 | AMS | | WG | 2 | lb/a | EPOS | B | | | | |
| 10 | Untreated | | | | | | | 0 | 0 | 0 | 0 |
| 11 | Harness Xtra | 5.6 | L | 1.6 | qt/a | PRE | A | 82 | 58 | 0 | 99 |
| 11 | Impact | 2.8 | L | 0.75 | fl oz/a | POST | C | | | | |
| 11 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | |
| 11 | MSO | | L | 1 | % v/v | POST | C | | | | |
| 11 | N-Pack AMS | | L | 2.5 | % v/v | POST | C | | | | |
| 12 | Balance FLEXX | 2 | L | 4 | fl oz/a | PRE | A | 99 | 99 | 0 | 99 |
| 12 | Liberty | 2.34 | L | 22 | fl oz/a | POST | C | | | | |
| 12 | AAtrex | 90 | WG | 1.1 | lb/a | POST | C | | | | |
| 12 | AMS | | WG | 8.5 | lb/100 gal | POST | C | | | | |
| 13 | SureStart II | 4.16 | L | 2 | pt/a | PRE | A | 76 | 90 | 0 | 99 |
| 13 | Durango DMA | 4 | SL | 24 | fl oz/a | POST | C | | | | |
| 13 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 14 | TripleFLEX | 4.16 | L | 1.75 | pt/a | PRE | A | 81 | 90 | 0 | 99 |
| 14 | Roundup PowerMax | 4.5 | L | 22 | fl oz/a | POST | C | | | | |
| 14 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |

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Trial ID: C01-14 Study Dir.: Sprague and Powell
 Conducted: Campus T-17 Investigator: Christy Sprague

| Weed Code | | | | | | | | AMBEL | ABUTH | ZEAMX | ANGR |
|--------------------|-------------------|-----------|-----------|------|------------|----------|-----------|-------------|-------------|-------------|-------------|
| Crop Code | | | | | | | | | | | |
| Rating Data Type | | | | | | | | control | control | injury | control |
| Rating Unit | | | | | | | | percent | percent | percent | percent |
| Rating Date | | | | | | | | Jun/09/2014 | Jun/09/2014 | Jun/16/2014 | Jun/16/2014 |
| Trt-Eval Interval | | | | | | | | 32 DA-A | 32 DA-A | 15 DA-B | 15 DA-B |
| # Subsamples, Dec. | | | | | | | | 0 | 0 | 0 | 0 |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | | | | |
| 15 | TripleFLEX | 4.16 | L | 1.75 | pt/a | PRE | A | 95 | 90 | 0 | 99 |
| 15 | AAtrex | 90 | WG | 1.1 | lb/a | PRE | A | | | | |
| 15 | Roundup PowerMax | 4.5 | L | 22 | fl oz/a | POST | C | | | | |
| 15 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 16 | Harness Xtra | 5.6 | L | 1.6 | qt/a | PRE | A | 84 | 67 | 0 | 99 |
| 16 | Roundup PowerMax | 4.5 | L | 22 | fl oz/a | POST | C | | | | |
| 16 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 17 | Degree Xtra | 4 | L | 2 | qt/a | PRE | A | 65 | 38 | 0 | 99 |
| 17 | Roundup PowerMax | 4.5 | L | 22 | fl oz/a | POST | C | | | | |
| 17 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 18 | Bicep II Magnum | 5.5 | L | 2.1 | qt/a | PRE | A | 80 | 76 | 0 | 99 |
| 18 | Callisto GT | 4.18 | L | 2 | pt/a | POST | C | | | | |
| 18 | Surfactant | | L | 0.25 | % v/v | POST | C | | | | |
| 18 | AMS | | WG | 8.5 | lb/100 gal | POST | C | | | | |
| 19 | Breakfree NXT ATZ | 5.6 | L | 2 | qt/a | PRE | A | 98 | 99 | 0 | 99 |
| 19 | Instigate | 45.8 | WG | 6 | oz/a | PRE | A | | | | |
| 19 | Abundit Extra | 3 | SL | 32 | fl oz/a | POST | C | | | | |
| 19 | AMS | | WG | 2 | lb/a | POST | C | | | | |
| 20 | Harness Xtra | 5.6 | L | 1.6 | qt/a | PRE | A | 77 | 81 | 0 | 99 |
| 20 | Impact | 2.8 | L | 0.75 | fl oz/a | POST | C | | | | |
| 20 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | |
| 20 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | |
| 20 | MSO | | L | 0.5 | % v/v | POST | C | | | | |
| 20 | N-Pack AMS | | L | 2.5 | % v/v | POST | C | | | | |
| 21 | Zidua | 85 | WG | 2.5 | oz/a | PRE | A | 95 | 99 | 0 | 99 |
| 21 | Sharpen | 2.85 | L | 2.5 | fl oz/a | PRE | A | | | | |
| 21 | Armezon | 2.8 | L | 0.75 | fl oz/a | POST | C | | | | |
| 21 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | |
| 21 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | |
| 21 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 22 | Verdict | 5.57 | L | 15 | fl oz/a | PRE | A | 99 | 99 | 0 | 99 |
| 22 | AAtrex | 90 | WG | 1.1 | lb/a | PRE | A | | | | |
| 22 | Armezon | 2.8 | L | 0.75 | fl oz/a | POST | C | | | | |
| 22 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | |
| 22 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | |
| 22 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 23 | Verdict | 5.57 | L | 18 | fl oz/a | PRE | A | 98 | 99 | 0 | 99 |
| 23 | Status | 56 | WG | 5 | oz/a | POST | C | | | | |
| 23 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | |
| 23 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 24 | Anthem ATZ | 4.5 | L | 1 | qt/a | PRE | A | 93 | 90 | 5 | 99 |
| 24 | Solstice | 4 | L | 2 | fl oz/a | POST | C | | | | |
| 24 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | |
| 24 | AMS | | WG | 2.5 | lb/a | POST | C | | | | |
| 25 | Lexar EZ | 3.7 | L | 1.5 | qt/a | PRE | A | 88 | 99 | 0 | 99 |
| 25 | Halex GT | 4.38 | L | 3.6 | pt/a | POST | C | | | | |
| 25 | Surfactant | | L | 0.25 | % v/v | POST | C | | | | |
| 25 | AMS | | WG | 8.5 | lb/100 gal | POST | C | | | | |

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C01-14 Study Dir.: Sprague and Powell
 Conducted: Campus T-17 Investigator: Christy Sprague

| Weed Code | | | | | | | | AMBEL | ABUTH | ZEAMX | ANGR |
|--------------------|------------------|-----------|-----------|-------|------------|----------|-----------|-------------|-------------|-------------|-------------|
| Crop Code | | | | | | | | control | control | injury | control |
| Rating Data Type | | | | | | | | percent | percent | percent | percent |
| Rating Unit | | | | | | | | Jun/09/2014 | Jun/09/2014 | Jun/16/2014 | Jun/16/2014 |
| Rating Date | | | | | | | | 32 DA-A | 32 DA-A | 15 DA-B | 15 DA-B |
| Trt-Eval Interval | | | | | | | | 0 | 0 | 0 | 0 |
| # Subsamples, Dec. | | | | | | | | | | | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | | | | |
| 26 | Prequel | 45 | WG | 1.66 | oz/a | PRE | A | 99 | 98 | 0 | 99 |
| 26 | AAtrex | 90 | WG | 1.1 | lb/a | PRE | A | | | | |
| 26 | Abundit Extra | 3 | SL | 32 | fl oz/a | POST | C | | | | |
| 26 | AMS | | WG | 2 | lb/a | POST | C | | | | |
| 27 | Anthem | 2.15 | L | 8 | fl oz/a | PRE | A | 53 | 81 | 3 | 99 |
| 27 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | |
| 27 | Solstice | 4 | L | 2 | fl oz/a | POST | C | | | | |
| 27 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | |
| 27 | AMS | | WG | 2.5 | lb/a | POST | C | | | | |
| 28 | Dual II Magnum | 7.64 | L | 0.67 | pt/a | PRE | A | 0 | 0 | 6 | 99 |
| 28 | Yukon | 67.5 | WG | 4 | oz/a | POST | C | | | | |
| 28 | Roundup PowerMax | 4.5 | SL | 22 | fl oz/a | POST | C | | | | |
| 28 | Surfactant | | L | 0.125 | % v/v | POST | C | | | | |
| 28 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| LSD (P=.05) | | | | | | | | 6.6 | 17.3 | 1.0 | 4.1 |
| CV | | | | | | | | 5.53 | 14.58 | 145.4 | 3.05 |

Means followed by same letter do not significantly differ (P=.05, LSD)

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C01-14 Study Dir.: Sprague and Powell
 Conducted: Campus T-17 Investigator: Christy Sprague

| Weed Code | | | | | | | | CHEAL | AMAPO | AMBEL | ABUTH |
|--------------------|----------------------|-----------|-----------|------|------------|----------|-----------|-------------|-------------|-------------|-------------|
| Crop Code | | | | | | | | | | | |
| Rating Data Type | | | | | | | | control | control | control | control |
| Rating Unit | | | | | | | | percent | percent | percent | percent |
| Rating Date | | | | | | | | Jun/16/2014 | Jun/16/2014 | Jun/16/2014 | Jun/16/2014 |
| Trt-Eval Interval | | | | | | | | 15 DA-B | 15 DA-B | 15 DA-B | 15 DA-B |
| # Subsamples, Dec. | | | | | | | | 0 | 0 | 0 | 0 |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | | | | |
| 1 | Lexar EZ | 3.7 | L | 3 | qt/a | PRE | A | 99 | 99 | 99 | 99 |
| 2 | Corvus | 2.63 | L | 5.6 | fl oz/a | PRE | A | 99 | 99 | 99 | 99 |
| 2 | AAtrex | 90 | WG | 1.67 | lb/a | PRE | A | | | | |
| 3 | Balance FLEXX | 2 | L | 4 | fl oz/a | PRE | A | 99 | 99 | 99 | 99 |
| 3 | Bicep II Magnum | 5.5 | L | 2 | qt/a | PRE | A | | | | |
| 4 | Keystone NXT | 5.6 | L | 2.4 | qt/a | PRE | A | 99 | 99 | 99 | 98 |
| 4 | Hornet WDG | 68.5 | WG | 3 | oz/a | PRE | A | | | | |
| 5 | Capreno | 3.45 | L | 3 | fl oz/a | EPOS | B | 99 | 99 | 99 | 99 |
| 5 | AAtrex | 90 | WG | 1.1 | lb/a | EPOS | B | | | | |
| 5 | Crop oil concentrate | | L | 1 | % v/v | EPOS | B | | | | |
| 5 | AMS | | WG | 8.5 | lb/100 gal | EPOS | B | | | | |
| 6 | SureStart II | 4.16 | L | 2 | pt/a | EPOS | B | 68 | 99 | 99 | 99 |
| 6 | Durango DMA | 4 | SL | 24 | fl oz/a | EPOS | B | | | | |
| 6 | AMS | | WG | 17 | lb/100 gal | EPOS | B | | | | |
| 7 | Outlook | 6 | L | 18 | fl oz/a | EPOS | B | 99 | 99 | 99 | 99 |
| 7 | Armezon | 2.8 | L | 0.75 | fl oz/a | EPOS | B | | | | |
| 7 | AAtrex | 90 | WG | 0.56 | lb/a | EPOS | B | | | | |
| 7 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | EPOS | B | | | | |
| 7 | AMS | | WG | 17 | lb/100 gal | EPOS | B | | | | |
| 8 | Halex GT | 4.38 | L | 3.6 | pt/a | EPOS | B | 99 | 99 | 98 | 99 |
| 8 | Surfactant | | L | 0.25 | % v/v | EPOS | B | | | | |
| 8 | AMS | | WG | 8.5 | lb/100 gal | EPOS | B | | | | |
| 9 | Realm Q | 38.7 | WG | 4 | oz/a | EPOS | B | 99 | 99 | 99 | 99 |
| 9 | AAtrex | 90 | WG | 1.1 | lb/a | EPOS | B | | | | |
| 9 | Abundit Extra | 3 | SL | 32 | fl oz/a | EPOS | B | | | | |
| 9 | AMS | | WG | 2 | lb/a | EPOS | B | | | | |
| 10 | Untreated | | | | | | | 0 | 0 | 0 | 0 |
| 11 | Harness Xtra | 5.6 | L | 1.6 | qt/a | PRE | A | 99 | 99 | 99 | 99 |
| 11 | Impact | 2.8 | L | 0.75 | fl oz/a | POST | C | | | | |
| 11 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | |
| 11 | MSO | | L | 1 | % v/v | POST | C | | | | |
| 11 | N-Pack AMS | | L | 2.5 | % v/v | POST | C | | | | |
| 12 | Balance FLEXX | 2 | L | 4 | fl oz/a | PRE | A | 99 | 99 | 99 | 99 |
| 12 | Liberty | 2.34 | L | 22 | fl oz/a | POST | C | | | | |
| 12 | AAtrex | 90 | WG | 1.1 | lb/a | POST | C | | | | |
| 12 | AMS | | WG | 8.5 | lb/100 gal | POST | C | | | | |
| 13 | SureStart II | 4.16 | L | 2 | pt/a | PRE | A | 99 | 99 | 99 | 99 |
| 13 | Durango DMA | 4 | SL | 24 | fl oz/a | POST | C | | | | |
| 13 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 14 | TripleFLEX | 4.16 | L | 1.75 | pt/a | PRE | A | 99 | 99 | 99 | 99 |
| 14 | Roundup PowerMax | 4.5 | L | 22 | fl oz/a | POST | C | | | | |
| 14 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C01-14 Study Dir.: Sprague and Powell
 Conducted: Campus T-17 Investigator: Christy Sprague

| | | | | | | | | CHEAL | AMAPO | AMBEL | ABUTH |
|--------------------|-------------------|-----------|-----------|------|------------|----------|-----------|-------------|-------------|-------------|-------------|
| Weed Code | | | | | | | | control | control | control | control |
| Crop Code | | | | | | | | percent | percent | percent | percent |
| Rating Data Type | | | | | | | | Jun/16/2014 | Jun/16/2014 | Jun/16/2014 | Jun/16/2014 |
| Rating Unit | | | | | | | | 15 DA-B | 15 DA-B | 15 DA-B | 15 DA-B |
| Rating Date | | | | | | | | 0 | 0 | 0 | 0 |
| Trt-Eval Interval | | | | | | | | | | | |
| # Subsamples, Dec. | | | | | | | | | | | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | | | | |
| 15 | TripleFLEX | 4.16 | L | 1.75 | pt/a | PRE | A | 99 | 99 | 99 | 99 |
| 15 | AAtrex | 90 | WG | 1.1 | lb/a | PRE | A | | | | |
| 15 | Roundup PowerMax | 4.5 | L | 22 | fl oz/a | POST | C | | | | |
| 15 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 16 | Harness Xtra | 5.6 | L | 1.6 | qt/a | PRE | A | 99 | 99 | 99 | 99 |
| 16 | Roundup PowerMax | 4.5 | L | 22 | fl oz/a | POST | C | | | | |
| 16 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 17 | Degree Xtra | 4 | L | 2 | qt/a | PRE | A | 99 | 99 | 99 | 99 |
| 17 | Roundup PowerMax | 4.5 | L | 22 | fl oz/a | POST | C | | | | |
| 17 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 18 | Bicep II Magnum | 5.5 | L | 2.1 | qt/a | PRE | A | 99 | 99 | 99 | 99 |
| 18 | Callisto GT | 4.18 | L | 2 | pt/a | POST | C | | | | |
| 18 | Surfactant | | L | 0.25 | % v/v | POST | C | | | | |
| 18 | AMS | | WG | 8.5 | lb/100 gal | POST | C | | | | |
| 19 | Breakfree NXT ATZ | 5.6 | L | 2 | qt/a | PRE | A | 99 | 99 | 99 | 99 |
| 19 | Instigate | 45.8 | WG | 6 | oz/a | PRE | A | | | | |
| 19 | Abundit Extra | 3 | SL | 32 | fl oz/a | POST | C | | | | |
| 19 | AMS | | WG | 2 | lb/a | POST | C | | | | |
| 20 | Harness Xtra | 5.6 | L | 1.6 | qt/a | PRE | A | 99 | 99 | 99 | 99 |
| 20 | Impact | 2.8 | L | 0.75 | fl oz/a | POST | C | | | | |
| 20 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | |
| 20 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | |
| 20 | MSO | | L | 0.5 | % v/v | POST | C | | | | |
| 20 | N-Pack AMS | | L | 2.5 | % v/v | POST | C | | | | |
| 21 | Zidua | 85 | WG | 2.5 | oz/a | PRE | A | 99 | 99 | 99 | 99 |
| 21 | Sharpen | 2.85 | L | 2.5 | fl oz/a | PRE | A | | | | |
| 21 | Armezon | 2.8 | L | 0.75 | fl oz/a | POST | C | | | | |
| 21 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | |
| 21 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | |
| 21 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 22 | Verdict | 5.57 | L | 15 | fl oz/a | PRE | A | 99 | 99 | 99 | 99 |
| 22 | AAtrex | 90 | WG | 1.1 | lb/a | PRE | A | | | | |
| 22 | Armezon | 2.8 | L | 0.75 | fl oz/a | POST | C | | | | |
| 22 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | |
| 22 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | |
| 22 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 23 | Verdict | 5.57 | L | 18 | fl oz/a | PRE | A | 99 | 99 | 99 | 99 |
| 23 | Status | 56 | WG | 5 | oz/a | POST | C | | | | |
| 23 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | |
| 23 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 24 | Anthem ATZ | 4.5 | L | 1 | qt/a | PRE | A | 99 | 99 | 99 | 99 |
| 24 | Solstice | 4 | L | 2 | fl oz/a | POST | C | | | | |
| 24 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | |
| 24 | AMS | | WG | 2.5 | lb/a | POST | C | | | | |
| 25 | Lexar EZ | 3.7 | L | 1.5 | qt/a | PRE | A | 99 | 99 | 99 | 99 |
| 25 | Halex GT | 4.38 | L | 3.6 | pt/a | POST | C | | | | |
| 25 | Surfactant | | L | 0.25 | % v/v | POST | C | | | | |
| 25 | AMS | | WG | 8.5 | lb/100 gal | POST | C | | | | |

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C01-14 Study Dir.: Sprague and Powell
 Conducted: Campus T-17 Investigator: Christy Sprague

| | | | | | | | | CHEAL | AMAPO | AMBEL | ABUTH |
|--------------------|------------------|-----------|-----------|-------|------------|----------|-----------|-------------|-------------|-------------|-------------|
| Weed Code | | | | | | | | | | | |
| Crop Code | | | | | | | | | | | |
| Rating Data Type | | | | | | | | control | control | control | control |
| Rating Unit | | | | | | | | percent | percent | percent | percent |
| Rating Date | | | | | | | | Jun/16/2014 | Jun/16/2014 | Jun/16/2014 | Jun/16/2014 |
| Trt-Eval Interval | | | | | | | | 15 DA-B | 15 DA-B | 15 DA-B | 15 DA-B |
| # Subsamples, Dec. | | | | | | | | 0 | 0 | 0 | 0 |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | | | | |
| 26 | Prequel | 45 | WG | 1.66 | oz/a | PRE | A | 99 | 99 | 99 | 99 |
| 26 | AAtrex | 90 | WG | 1.1 | lb/a | PRE | A | | | | |
| 26 | Abundit Extra | 3 | SL | 32 | fl oz/a | POST | C | | | | |
| 26 | AMS | | WG | 2 | lb/a | POST | C | | | | |
| 27 | Anthem | 2.15 | L | 8 | fl oz/a | PRE | A | 99 | 99 | 99 | 99 |
| 27 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | |
| 27 | Solstice | 4 | L | 2 | fl oz/a | POST | C | | | | |
| 27 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | |
| 27 | AMS | | WG | 2.5 | lb/a | POST | C | | | | |
| 28 | Dual II Magnum | 7.64 | L | 0.67 | pt/a | PRE | A | 98 | 99 | 97 | 99 |
| 28 | Yukon | 67.5 | WG | 4 | oz/a | POST | C | | | | |
| 28 | Roundup PowerMax | 4.5 | SL | 22 | fl oz/a | POST | C | | | | |
| 28 | Surfactant | | L | 0.125 | % v/v | POST | C | | | | |
| 28 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| LSD (P=.05) | | | | | | | | 0.9 | 0.0 | 0.8 | 0.5 |
| CV | | | | | | | | 0.66 | 0.0 | 0.6 | 0.34 |

Means followed by same letter do not significantly differ (P=.05, LSD)

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C01-14 Study Dir.: Sprague and Powell
 Conducted: Campus T-17 Investigator: Christy Sprague

| Weed Code | Crop Code | Rating Data Type | Rating Unit | Rating Date | Trt-Eval Interval | # Subsamples, Dec. | ZEAMX injury percent | ANGR control percent | CHEAL control percent | AMAPO control percent | |
|-----------|----------------------|------------------|-------------|-------------|-------------------|--------------------|----------------------|----------------------|-----------------------|-----------------------|----|
| | | | | | | | Jun/23/2014 14 DA-C | Jun/23/2014 14 DA-C | Jun/23/2014 14 DA-C | Jun/23/2014 14 DA-C | |
| | | | | | | | 0 | 0 | 0 | 0 | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | | | | |
| 1 | Lexar EZ | 3.7 | L | 3 | qt/a | PRE | A | 0 | 98 | 99 | 99 |
| 2 | Corvus | 2.63 | L | 5.6 | fl oz/a | PRE | A | 0 | 99 | 99 | 99 |
| 2 | AAtrex | 90 | WG | 1.67 | lb/a | PRE | A | | | | |
| 3 | Balance FLEXX | 2 | L | 4 | fl oz/a | PRE | A | 0 | 99 | 99 | 99 |
| 3 | Bicep II Magnum | 5.5 | L | 2 | qt/a | PRE | A | | | | |
| 4 | Keystone NXT | 5.6 | L | 2.4 | qt/a | PRE | A | 0 | 99 | 99 | 99 |
| 4 | Hornet WDG | 68.5 | WG | 3 | oz/a | PRE | A | | | | |
| 5 | Capreno | 3.45 | L | 3 | fl oz/a | EPOS | B | 0 | 75 | 99 | 99 |
| 5 | AAtrex | 90 | WG | 1.1 | lb/a | EPOS | B | | | | |
| 5 | Crop oil concentrate | | L | 1 | % v/v | EPOS | B | | | | |
| 5 | AMS | | WG | 8.5 | lb/100 gal | EPOS | B | | | | |
| 6 | SureStart II | 4.16 | L | 2 | pt/a | EPOS | B | 0 | 99 | 88 | 99 |
| 6 | Durango DMA | 4 | SL | 24 | fl oz/a | EPOS | B | | | | |
| 6 | AMS | | WG | 17 | lb/100 gal | EPOS | B | | | | |
| 7 | Outlook | 6 | L | 18 | fl oz/a | EPOS | B | 0 | 99 | 99 | 99 |
| 7 | Armezon | 2.8 | L | 0.75 | fl oz/a | EPOS | B | | | | |
| 7 | AAtrex | 90 | WG | 0.56 | lb/a | EPOS | B | | | | |
| 7 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | EPOS | B | | | | |
| 7 | AMS | | WG | 17 | lb/100 gal | EPOS | B | | | | |
| 8 | Halex GT | 4.38 | L | 3.6 | pt/a | EPOS | B | 0 | 99 | 99 | 99 |
| 8 | Surfactant | | L | 0.25 | % v/v | EPOS | B | | | | |
| 8 | AMS | | WG | 8.5 | lb/100 gal | EPOS | B | | | | |
| 9 | Realm Q | 38.7 | WG | 4 | oz/a | EPOS | B | 0 | 97 | 99 | 99 |
| 9 | AAtrex | 90 | WG | 1.1 | lb/a | EPOS | B | | | | |
| 9 | Abundit Extra | 3 | SL | 32 | fl oz/a | EPOS | B | | | | |
| 9 | AMS | | WG | 2 | lb/a | EPOS | B | | | | |
| 10 | Untreated | | | | | | | 0 | 0 | 0 | 0 |
| 11 | Harness Xtra | 5.6 | L | 1.6 | qt/a | PRE | A | 0 | 99 | 99 | 99 |
| 11 | Impact | 2.8 | L | 0.75 | fl oz/a | POST | C | | | | |
| 11 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | |
| 11 | MSO | | L | 1 | % v/v | POST | C | | | | |
| 11 | N-Pack AMS | | L | 2.5 | % v/v | POST | C | | | | |
| 12 | Balance FLEXX | 2 | L | 4 | fl oz/a | PRE | A | 0 | 99 | 99 | 99 |
| 12 | Liberty | 2.34 | L | 22 | fl oz/a | POST | C | | | | |
| 12 | AAtrex | 90 | WG | 1.1 | lb/a | POST | C | | | | |
| 12 | AMS | | WG | 8.5 | lb/100 gal | POST | C | | | | |
| 13 | SureStart II | 4.16 | L | 2 | pt/a | PRE | A | 0 | 99 | 99 | 99 |
| 13 | Durango DMA | 4 | SL | 24 | fl oz/a | POST | C | | | | |
| 13 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 14 | TripleFLEX | 4.16 | L | 1.75 | pt/a | PRE | A | 0 | 99 | 99 | 99 |
| 14 | Roundup PowerMax | 4.5 | L | 22 | fl oz/a | POST | C | | | | |
| 14 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C01-14 Study Dir.: Sprague and Powell
 Conducted: Campus T-17 Investigator: Christy Sprague

| Weed Code | | | | | | | | ZEAMX | ANGR | CHEAL | AMAPO |
|--------------------|-------------------|-----------|-----------|------|------------|----------|-----------|-------------|-------------|-------------|-------------|
| Crop Code | | | | | | | | injury | control | control | control |
| Rating Data Type | | | | | | | | percent | percent | percent | percent |
| Rating Unit | | | | | | | | Jun/23/2014 | Jun/23/2014 | Jun/23/2014 | Jun/23/2014 |
| Rating Date | | | | | | | | 14 DA-C | 14 DA-C | 14 DA-C | 14 DA-C |
| Trt-Eval Interval | | | | | | | | 0 | 0 | 0 | 0 |
| # Subsamples, Dec. | | | | | | | | | | | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | | | | |
| 15 | TripleFLEX | 4.16 | L | 1.75 | pt/a | PRE | A | 0 | 99 | 99 | 99 |
| 15 | AAtrex | 90 | WG | 1.1 | lb/a | PRE | A | | | | |
| 15 | Roundup PowerMax | 4.5 | L | 22 | fl oz/a | POST | C | | | | |
| 15 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 16 | Harness Xtra | 5.6 | L | 1.6 | qt/a | PRE | A | 0 | 99 | 99 | 99 |
| 16 | Roundup PowerMax | 4.5 | L | 22 | fl oz/a | POST | C | | | | |
| 16 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 17 | Degree Xtra | 4 | L | 2 | qt/a | PRE | A | 0 | 98 | 99 | 99 |
| 17 | Roundup PowerMax | 4.5 | L | 22 | fl oz/a | POST | C | | | | |
| 17 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 18 | Bicep II Magnum | 5.5 | L | 2.1 | qt/a | PRE | A | 0 | 99 | 99 | 99 |
| 18 | Callisto GT | 4.18 | L | 2 | pt/a | POST | C | | | | |
| 18 | Surfactant | | L | 0.25 | % v/v | POST | C | | | | |
| 18 | AMS | | WG | 8.5 | lb/100 gal | POST | C | | | | |
| 19 | Breakfree NXT ATZ | 5.6 | L | 2 | qt/a | PRE | A | 0 | 99 | 99 | 99 |
| 19 | Instigate | 45.8 | WG | 6 | oz/a | PRE | A | | | | |
| 19 | Abundit Extra | 3 | SL | 32 | fl oz/a | POST | C | | | | |
| 19 | AMS | | WG | 2 | lb/a | POST | C | | | | |
| 20 | Harness Xtra | 5.6 | L | 1.6 | qt/a | PRE | A | 0 | 99 | 99 | 99 |
| 20 | Impact | 2.8 | L | 0.75 | fl oz/a | POST | C | | | | |
| 20 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | |
| 20 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | |
| 20 | MSO | | L | 0.5 | % v/v | POST | C | | | | |
| 20 | N-Pack AMS | | L | 2.5 | % v/v | POST | C | | | | |
| 21 | Zidua | 85 | WG | 2.5 | oz/a | PRE | A | 0 | 99 | 99 | 99 |
| 21 | Sharpen | 2.85 | L | 2.5 | fl oz/a | PRE | A | | | | |
| 21 | Armezon | 2.8 | L | 0.75 | fl oz/a | POST | C | | | | |
| 21 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | |
| 21 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | |
| 21 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 22 | Verdict | 5.57 | L | 15 | fl oz/a | PRE | A | 0 | 99 | 99 | 99 |
| 22 | AAtrex | 90 | WG | 1.1 | lb/a | PRE | A | | | | |
| 22 | Armezon | 2.8 | L | 0.75 | fl oz/a | POST | C | | | | |
| 22 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | |
| 22 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | |
| 22 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 23 | Verdict | 5.57 | L | 18 | fl oz/a | PRE | A | 0 | 99 | 99 | 99 |
| 23 | Status | 56 | WG | 5 | oz/a | POST | C | | | | |
| 23 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | |
| 23 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| 24 | Anthem ATZ | 4.5 | L | 1 | qt/a | PRE | A | 0 | 99 | 99 | 99 |
| 24 | Solstice | 4 | L | 2 | fl oz/a | POST | C | | | | |
| 24 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | |
| 24 | AMS | | WG | 2.5 | lb/a | POST | C | | | | |
| 25 | Lexar EZ | 3.7 | L | 1.5 | qt/a | PRE | A | 0 | 99 | 99 | 99 |
| 25 | Halex GT | 4.38 | L | 3.6 | pt/a | POST | C | | | | |
| 25 | Surfactant | | L | 0.25 | % v/v | POST | C | | | | |
| 25 | AMS | | WG | 8.5 | lb/100 gal | POST | C | | | | |

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C01-14 Study Dir.: Sprague and Powell
 Conducted: Campus T-17 Investigator: Christy Sprague

| Weed Code | | | | | | | | ZEAMX | ANGR | CHEAL | AMAPO |
|--------------------|------------------|-----------|-----------|-------|------------|----------|-----------|-------------|-------------|-------------|-------------|
| Crop Code | | | | | | | | injury | control | control | control |
| Rating Data Type | | | | | | | | percent | percent | percent | percent |
| Rating Unit | | | | | | | | Jun/23/2014 | Jun/23/2014 | Jun/23/2014 | Jun/23/2014 |
| Rating Date | | | | | | | | 14 DA-C | 14 DA-C | 14 DA-C | 14 DA-C |
| Trt-Eval Interval | | | | | | | | 0 | 0 | 0 | 0 |
| # Subsamples, Dec. | | | | | | | | | | | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | | | | |
| 26 | Prequel | 45 | WG | 1.66 | oz/a | PRE | A | 0 | 99 | 99 | 99 |
| 26 | AAtrex | 90 | WG | 1.1 | lb/a | PRE | A | | | | |
| 26 | Abundit Extra | 3 | SL | 32 | fl oz/a | POST | C | | | | |
| 26 | AMS | | WG | 2 | lb/a | POST | C | | | | |
| 27 | Anthem | 2.15 | L | 8 | fl oz/a | PRE | A | 0 | 99 | 99 | 99 |
| 27 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | |
| 27 | Solstice | 4 | L | 2 | fl oz/a | POST | C | | | | |
| 27 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | |
| 27 | AMS | | WG | 2.5 | lb/a | POST | C | | | | |
| 28 | Dual II Magnum | 7.64 | L | 0.67 | pt/a | PRE | A | 0 | 99 | 99 | 99 |
| 28 | Yukon | 67.5 | WG | 4 | oz/a | POST | C | | | | |
| 28 | Roundup PowerMax | 4.5 | SL | 22 | fl oz/a | POST | C | | | | |
| 28 | Surfactant | | L | 0.125 | % v/v | POST | C | | | | |
| 28 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | |
| LSD (P=.05) | | | | | | | | 0.0 | 6.4 | 1.6 | 0.0 |
| CV | | | | | | | | 0.0 | 4.82 | 1.22 | 0.0 |

Means followed by same letter do not significantly differ (P=.05, LSD)

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C01-14
 Conducted: Campus T-17

Study Dir.: Sprague and Powell
 Investigator: Christy Sprague

| Weed Code | | | | | | | | AMBEL | ABUTH | ZEAMX | ANGR | CHEAL |
|--------------------|----------------------|-----------|-----------|------|------------|----------|-----------|-------------|-------------|-------------|-------------|-------------|
| Crop Code | | | | | | | | control | control | injury | control | control |
| Rating Data Type | | | | | | | | percent | percent | percent | percent | percent |
| Rating Unit | | | | | | | | Jun/23/2014 | Jun/23/2014 | Jul/10/2014 | Jul/10/2014 | Jul/10/2014 |
| Rating Date | | | | | | | | 14 DA-C | 14 DA-C | 31 DA-C | 31 DA-C | 31 DA-C |
| Trt-Eval Interval | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| # Subsamples, Dec. | | | | | | | | | | | | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | | | | | |
| 1 | Lexar EZ | 3.7 | L | 3 | qt/a | PRE | A | 98 | 99 | 0 | 98 | 99 |
| 2 | Corvus | 2.63 | L | 5.6 | fl oz/a | PRE | A | 99 | 99 | 0 | 96 | 99 |
| 2 | AAtrex | 90 | WG | 1.67 | lb/a | PRE | A | | | | | |
| 3 | Balance FLEXX | 2 | L | 4 | fl oz/a | PRE | A | 99 | 99 | 0 | 99 | 99 |
| 3 | Bicep II Magnum | 5.5 | L | 2 | qt/a | PRE | A | | | | | |
| 4 | Keystone NXT | 5.6 | L | 2.4 | qt/a | PRE | A | 99 | 99 | 0 | 99 | 99 |
| 4 | Hornet WDG | 68.5 | WG | 3 | oz/a | PRE | A | | | | | |
| 5 | Capreno | 3.45 | L | 3 | fl oz/a | EPOS | B | 99 | 99 | 0 | 80 | 99 |
| 5 | AAtrex | 90 | WG | 1.1 | lb/a | EPOS | B | | | | | |
| 5 | Crop oil concentrate | | L | 1 | % v/v | EPOS | B | | | | | |
| 5 | AMS | | WG | 8.5 | lb/100 gal | EPOS | B | | | | | |
| 6 | SureStart II | 4.16 | L | 2 | pt/a | EPOS | B | 99 | 99 | 0 | 96 | 77 |
| 6 | Durango DMA | 4 | SL | 24 | fl oz/a | EPOS | B | | | | | |
| 6 | AMS | | WG | 17 | lb/100 gal | EPOS | B | | | | | |
| 7 | Outlook | 6 | L | 18 | fl oz/a | EPOS | B | 99 | 99 | 0 | 99 | 99 |
| 7 | Armezon | 2.8 | L | 0.75 | fl oz/a | EPOS | B | | | | | |
| 7 | AAtrex | 90 | WG | 0.56 | lb/a | EPOS | B | | | | | |
| 7 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | EPOS | B | | | | | |
| 7 | AMS | | WG | 17 | lb/100 gal | EPOS | B | | | | | |
| 8 | Halex GT | 4.38 | L | 3.6 | pt/a | EPOS | B | 99 | 99 | 0 | 99 | 99 |
| 8 | Surfactant | | L | 0.25 | % v/v | EPOS | B | | | | | |
| 8 | AMS | | WG | 8.5 | lb/100 gal | EPOS | B | | | | | |
| 9 | Realm Q | 38.7 | WG | 4 | oz/a | EPOS | B | 99 | 99 | 0 | 96 | 99 |
| 9 | AAtrex | 90 | WG | 1.1 | lb/a | EPOS | B | | | | | |
| 9 | Abundit Extra | 3 | SL | 32 | fl oz/a | EPOS | B | | | | | |
| 9 | AMS | | WG | 2 | lb/a | EPOS | B | | | | | |
| 10 | Untreated | | | | | | | 0 | 0 | 0 | 0 | 0 |
| 11 | Harness Xtra | 5.6 | L | 1.6 | qt/a | PRE | A | 99 | 99 | 0 | 99 | 99 |
| 11 | Impact | 2.8 | L | 0.75 | fl oz/a | POST | C | | | | | |
| 11 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | | |
| 11 | MSO | | L | 1 | % v/v | POST | C | | | | | |
| 11 | N-Pack AMS | | L | 2.5 | % v/v | POST | C | | | | | |
| 12 | Balance FLEXX | 2 | L | 4 | fl oz/a | PRE | A | 99 | 99 | 0 | 99 | 99 |
| 12 | Liberty | 2.34 | L | 22 | fl oz/a | POST | C | | | | | |
| 12 | AAtrex | 90 | WG | 1.1 | lb/a | POST | C | | | | | |
| 12 | AMS | | WG | 8.5 | lb/100 gal | POST | C | | | | | |
| 13 | SureStart II | 4.16 | L | 2 | pt/a | PRE | A | 99 | 99 | 0 | 99 | 98 |
| 13 | Durango DMA | 4 | SL | 24 | fl oz/a | POST | C | | | | | |
| 13 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | | |
| 14 | TripleFLEX | 4.16 | L | 1.75 | pt/a | PRE | A | 99 | 99 | 0 | 99 | 98 |
| 14 | Roundup PowerMax | 4.5 | L | 22 | fl oz/a | POST | C | | | | | |
| 14 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | | |

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C01-14 Study Dir.: Sprague and Powell
 Conducted: Campus T-17 Investigator: Christy Sprague

| Weed Code | | | | | | | | AMBEL | ABUTH | ZEAMX | ANGR | CHEAL |
|--------------------|-------------------|-----------|-----------|------|------------|----------|-----------|-------------|-------------|-------------|-------------|-------------|
| Crop Code | | | | | | | | | | | | |
| Rating Data Type | | | | | | | | control | control | injury | control | control |
| Rating Unit | | | | | | | | percent | percent | percent | percent | percent |
| Rating Date | | | | | | | | Jun/23/2014 | Jun/23/2014 | Jul/10/2014 | Jul/10/2014 | Jul/10/2014 |
| Trt-Eval Interval | | | | | | | | 14 DA-C | 14 DA-C | 31 DA-C | 31 DA-C | 31 DA-C |
| # Subsamples, Dec. | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | | | | | |
| 15 | TripleFLEX | 4.16 | L | 1.75 | pt/a | PRE | A | 99 | 99 | 0 | 99 | 99 |
| 15 | AAtrex | 90 | WG | 1.1 | lb/a | PRE | A | | | | | |
| 15 | Roundup PowerMax | 4.5 | L | 22 | fl oz/a | POST | C | | | | | |
| 15 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | | |
| 16 | Harness Xtra | 5.6 | L | 1.6 | qt/a | PRE | A | 99 | 99 | 0 | 99 | 98 |
| 16 | Roundup PowerMax | 4.5 | L | 22 | fl oz/a | POST | C | | | | | |
| 16 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | | |
| 17 | Degree Xtra | 4 | L | 2 | qt/a | PRE | A | 99 | 99 | 0 | 99 | 99 |
| 17 | Roundup PowerMax | 4.5 | L | 22 | fl oz/a | POST | C | | | | | |
| 17 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | | |
| 18 | Bicep II Magnum | 5.5 | L | 2.1 | qt/a | PRE | A | 99 | 99 | 0 | 99 | 99 |
| 18 | Callisto GT | 4.18 | L | 2 | pt/a | POST | C | | | | | |
| 18 | Surfactant | | L | 0.25 | % v/v | POST | C | | | | | |
| 18 | AMS | | WG | 8.5 | lb/100 gal | POST | C | | | | | |
| 19 | Breakfree NXT ATZ | 5.6 | L | 2 | qt/a | PRE | A | 99 | 99 | 0 | 99 | 99 |
| 19 | Instigate | 45.8 | WG | 6 | oz/a | PRE | A | | | | | |
| 19 | Abundit Extra | 3 | SL | 32 | fl oz/a | POST | C | | | | | |
| 19 | AMS | | WG | 2 | lb/a | POST | C | | | | | |
| 20 | Harness Xtra | 5.6 | L | 1.6 | qt/a | PRE | A | 99 | 99 | 0 | 99 | 99 |
| 20 | Impact | 2.8 | L | 0.75 | fl oz/a | POST | C | | | | | |
| 20 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | | |
| 20 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | | |
| 20 | MSO | | L | 0.5 | % v/v | POST | C | | | | | |
| 20 | N-Pack AMS | | L | 2.5 | % v/v | POST | C | | | | | |
| 21 | Zidua | 85 | WG | 2.5 | oz/a | PRE | A | 99 | 99 | 0 | 99 | 99 |
| 21 | Sharpen | 2.85 | L | 2.5 | fl oz/a | PRE | A | | | | | |
| 21 | Armezon | 2.8 | L | 0.75 | fl oz/a | POST | C | | | | | |
| 21 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | | |
| 21 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | | |
| 21 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | | |
| 22 | Verdict | 5.57 | L | 15 | fl oz/a | PRE | A | 99 | 99 | 0 | 99 | 99 |
| 22 | AAtrex | 90 | WG | 1.1 | lb/a | PRE | A | | | | | |
| 22 | Armezon | 2.8 | L | 0.75 | fl oz/a | POST | C | | | | | |
| 22 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | | |
| 22 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | | |
| 22 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | | |
| 23 | Verdict | 5.57 | L | 18 | fl oz/a | PRE | A | 99 | 99 | 0 | 99 | 99 |
| 23 | Status | 56 | WG | 5 | oz/a | POST | C | | | | | |
| 23 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | | |
| 23 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | | |
| 24 | Anthem ATZ | 4.5 | L | 1 | qt/a | PRE | A | 99 | 99 | 0 | 99 | 99 |
| 24 | Solstice | 4 | L | 2 | fl oz/a | POST | C | | | | | |
| 24 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | | |
| 24 | AMS | | WG | 2.5 | lb/a | POST | C | | | | | |
| 25 | Lexar EZ | 3.7 | L | 1.5 | qt/a | PRE | A | 99 | 99 | 0 | 99 | 99 |
| 25 | Halex GT | 4.38 | L | 3.6 | pt/a | POST | C | | | | | |
| 25 | Surfactant | | L | 0.25 | % v/v | POST | C | | | | | |
| 25 | AMS | | WG | 8.5 | lb/100 gal | POST | C | | | | | |

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C01-14 Study Dir.: Sprague and Powell
 Conducted: Campus T-17 Investigator: Christy Sprague

| | | | | | | | | AMBEL | ABUTH | ZEAMX | ANGR | CHEAL |
|-------------|------------------|------|------|-------|------------|--------|----|-------------|-------------|-------------|-------------|-------------|
| | | | | | | | | control | control | injury | control | control |
| | | | | | | | | percent | percent | percent | percent | percent |
| | | | | | | | | Jun/23/2014 | Jun/23/2014 | Jul/10/2014 | Jul/10/2014 | Jul/10/2014 |
| | | | | | | | | 14 DA-C | 14 DA-C | 31 DA-C | 31 DA-C | 31 DA-C |
| | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| Trt | Treatment | Form | Form | Rate | Grow | Appl | | | | | | |
| No. | Name | Conc | Type | Unit | Stg | Code | | | | | | |
| 26 | Prequel | 45 | WG | 1.66 | oz/a | PRE A | 99 | 99 | 0 | 99 | 99 | |
| 26 | AAtrex | 90 | WG | 1.1 | lb/a | PRE A | | | | | | |
| 26 | Abundit Extra | 3 | SL | 32 | fl oz/a | POST C | | | | | | |
| 26 | AMS | | WG | 2 | lb/a | POST C | | | | | | |
| 27 | Anthem | 2.15 | L | 8 | fl oz/a | PRE A | 99 | 99 | 0 | 99 | 99 | |
| 27 | AAtrex | 90 | WG | 0.56 | lb/a | POST C | | | | | | |
| 27 | Solstice | 4 | L | 2 | fl oz/a | POST C | | | | | | |
| 27 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST C | | | | | | |
| 27 | AMS | | WG | 2.5 | lb/a | POST C | | | | | | |
| 28 | Dual II Magnum | 7.64 | L | 0.67 | pt/a | PRE A | 99 | 99 | 0 | 99 | 99 | |
| 28 | Yukon | 67.5 | WG | 4 | oz/a | POST C | | | | | | |
| 28 | Roundup PowerMax | 4.5 | SL | 22 | fl oz/a | POST C | | | | | | |
| 28 | Surfactant | | L | 0.125 | % v/v | POST C | | | | | | |
| 28 | AMS | | WG | 17 | lb/100 gal | POST C | | | | | | |
| LSD (P=.05) | | | | | | | | 0.6 | 0.3 | 0.0 | 6.2 | 1.9 |
| CV | | | | | | | | 0.47 | 0.22 | 0.0 | 4.68 | 1.39 |

Means followed by same letter do not significantly differ (P=.05, LSD)

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C01-14 Study Dir.: Sprague and Powell
 Conducted: Campus T-17 Investigator: Christy Sprague

| Weed Code | | | | | | | | AMAPO | AMBEL | ABUTH | ZEAMX | ZEAMX |
|--------------------|----------------------|-----------|-----------|------|------------|----------|-----------|-------------|-------------|-------------|-------------|-------------|
| Crop Code | | | | | | | | control | control | control | moisture | yield |
| Rating Data Type | | | | | | | | percent | percent | percent | percent | bu/acre |
| Rating Unit | | | | | | | | Jul/10/2014 | Jul/10/2014 | Jul/10/2014 | Nov/09/2014 | Nov/09/2014 |
| Rating Date | | | | | | | | 31 DA-C | 31 DA-C | 31 DA-C | 153 DA-C | at 15% M |
| Trt-Eval Interval | | | | | | | | 0 | 0 | 0 | 1 | 0 |
| # Subsamples, Dec. | | | | | | | | | | | | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | | | | | |
| 1 | Lexar EZ | 3.7 | L | 3 | qt/a | PRE | A | 99 | 98 | 99 | 17.9 | 267 |
| 2 | Corvus | 2.63 | L | 5.6 | fl oz/a | PRE | A | 99 | 99 | 99 | 18.5 | 252 |
| 2 | AAtrex | 90 | WG | 1.67 | lb/a | PRE | A | | | | | |
| 3 | Balance FLEXX | 2 | L | 4 | fl oz/a | PRE | A | 99 | 99 | 99 | 17.7 | 271 |
| 3 | Bicep II Magnum | 5.5 | L | 2 | qt/a | PRE | A | | | | | |
| 4 | Keystone NXT | 5.6 | L | 2.4 | qt/a | PRE | A | 99 | 98 | 98 | 18.4 | 248 |
| 4 | Hornet WDG | 68.5 | WG | 3 | oz/a | PRE | A | | | | | |
| 5 | Capreno | 3.45 | L | 3 | fl oz/a | EPOS | B | 99 | 99 | 97 | 18.3 | 255 |
| 5 | AAtrex | 90 | WG | 1.1 | lb/a | EPOS | B | | | | | |
| 5 | Crop oil concentrate | | L | 1 | % v/v | EPOS | B | | | | | |
| 5 | AMS | | WG | 8.5 | lb/100 gal | EPOS | B | | | | | |
| 6 | SureStart II | 4.16 | L | 2 | pt/a | EPOS | B | 99 | 99 | 99 | 18.4 | 259 |
| 6 | Durango DMA | 4 | SL | 24 | fl oz/a | EPOS | B | | | | | |
| 6 | AMS | | WG | 17 | lb/100 gal | EPOS | B | | | | | |
| 7 | Outlook | 6 | L | 18 | fl oz/a | EPOS | B | 99 | 99 | 92 | 18.5 | 257 |
| 7 | Armezon | 2.8 | L | 0.75 | fl oz/a | EPOS | B | | | | | |
| 7 | AAtrex | 90 | WG | 0.56 | lb/a | EPOS | B | | | | | |
| 7 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | EPOS | B | | | | | |
| 7 | AMS | | WG | 17 | lb/100 gal | EPOS | B | | | | | |
| 8 | Halex GT | 4.38 | L | 3.6 | pt/a | EPOS | B | 99 | 98 | 99 | 17.7 | 266 |
| 8 | Surfactant | | L | 0.25 | % v/v | EPOS | B | | | | | |
| 8 | AMS | | WG | 8.5 | lb/100 gal | EPOS | B | | | | | |
| 9 | Realm Q | 38.7 | WG | 4 | oz/a | EPOS | B | 99 | 99 | 99 | 18.1 | 261 |
| 9 | AAtrex | 90 | WG | 1.1 | lb/a | EPOS | B | | | | | |
| 9 | Abundit Extra | 3 | SL | 32 | fl oz/a | EPOS | B | | | | | |
| 9 | AMS | | WG | 2 | lb/a | EPOS | B | | | | | |
| 10 | Untreated | | | | | | | 0 | 0 | 0 | 19.0 | 146 |
| 11 | Harness Xtra | 5.6 | L | 1.6 | qt/a | PRE | A | 99 | 99 | 99 | 17.9 | 264 |
| 11 | Impact | 2.8 | L | 0.75 | fl oz/a | POST | C | | | | | |
| 11 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | | |
| 11 | MSO | | L | 1 | % v/v | POST | C | | | | | |
| 11 | N-Pack AMS | | L | 2.5 | % v/v | POST | C | | | | | |
| 12 | Balance FLEXX | 2 | L | 4 | fl oz/a | PRE | A | 99 | 99 | 99 | 18.6 | 258 |
| 12 | Liberty | 2.34 | L | 22 | fl oz/a | POST | C | | | | | |
| 12 | AAtrex | 90 | WG | 1.1 | lb/a | POST | C | | | | | |
| 12 | AMS | | WG | 8.5 | lb/100 gal | POST | C | | | | | |
| 13 | SureStart II | 4.16 | L | 2 | pt/a | PRE | A | 99 | 98 | 99 | 18.2 | 264 |
| 13 | Durango DMA | 4 | SL | 24 | fl oz/a | POST | C | | | | | |
| 13 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | | |
| 14 | TripleFLEX | 4.16 | L | 1.75 | pt/a | PRE | A | 99 | 98 | 99 | 18.0 | 268 |
| 14 | Roundup PowerMax | 4.5 | L | 22 | fl oz/a | POST | C | | | | | |
| 14 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | | |

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C01-14
 Conducted: Campus T-17

Study Dir.: Sprague and Powell
 Investigator: Christy Sprague

| Weed Code | | | | | | | | AMAPO | AMBEL | ABUTH | ZEAMX | ZEAMX |
|--------------------|-------------------|-----------|-----------|------|------------|----------|-----------|-------------|-------------|-------------|-------------|-------------|
| Crop Code | | | | | | | | control | control | control | moisture | yield |
| Rating Data Type | | | | | | | | percent | percent | percent | percent | bu/acre |
| Rating Unit | | | | | | | | Jul/10/2014 | Jul/10/2014 | Jul/10/2014 | Nov/09/2014 | Nov/09/2014 |
| Rating Date | | | | | | | | 31 DA-C | 31 DA-C | 31 DA-C | 153 DA-C | at 15% M |
| Trt-Eval Interval | | | | | | | | 0 | 0 | 0 | 1 | 0 |
| # Subsamples, Dec. | | | | | | | | | | | | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | | | | | |
| 15 | TripleFLEX | 4.16 | L | 1.75 | pt/a | PRE | A | 99 | 98 | 99 | 18.1 | 259 |
| 15 | AAtrex | 90 | WG | 1.1 | lb/a | PRE | A | | | | | |
| 15 | Roundup PowerMax | 4.5 | L | 22 | fl oz/a | POST | C | | | | | |
| 15 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | | |
| 16 | Harness Xtra | 5.6 | L | 1.6 | qt/a | PRE | A | 99 | 99 | 99 | 18.2 | 254 |
| 16 | Roundup PowerMax | 4.5 | L | 22 | fl oz/a | POST | C | | | | | |
| 16 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | | |
| 17 | Degree Xtra | 4 | L | 2 | qt/a | PRE | A | 99 | 99 | 99 | 17.9 | 252 |
| 17 | Roundup PowerMax | 4.5 | L | 22 | fl oz/a | POST | C | | | | | |
| 17 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | | |
| 18 | Bicep II Magnum | 5.5 | L | 2.1 | qt/a | PRE | A | 99 | 99 | 99 | 17.7 | 265 |
| 18 | Callisto GT | 4.18 | L | 2 | pt/a | POST | C | | | | | |
| 18 | Surfactant | | L | 0.25 | % v/v | POST | C | | | | | |
| 18 | AMS | | WG | 8.5 | lb/100 gal | POST | C | | | | | |
| 19 | Breakfree NXT ATZ | 5.6 | L | 2 | qt/a | PRE | A | 99 | 99 | 99 | 18.1 | 259 |
| 19 | Instigate | 45.8 | WG | 6 | oz/a | PRE | A | | | | | |
| 19 | Abundit Extra | 3 | SL | 32 | fl oz/a | POST | C | | | | | |
| 19 | AMS | | WG | 2 | lb/a | POST | C | | | | | |
| 20 | Harness Xtra | 5.6 | L | 1.6 | qt/a | PRE | A | 99 | 99 | 99 | 18.4 | 263 |
| 20 | Impact | 2.8 | L | 0.75 | fl oz/a | POST | C | | | | | |
| 20 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | | |
| 20 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | | |
| 20 | MSO | | L | 0.5 | % v/v | POST | C | | | | | |
| 20 | N-Pack AMS | | L | 2.5 | % v/v | POST | C | | | | | |
| 21 | Zidua | 85 | WG | 2.5 | oz/a | PRE | A | 99 | 99 | 99 | 17.9 | 255 |
| 21 | Sharpen | 2.85 | L | 2.5 | fl oz/a | PRE | A | | | | | |
| 21 | Armezon | 2.8 | L | 0.75 | fl oz/a | POST | C | | | | | |
| 21 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | | |
| 21 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | | |
| 21 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | | |
| 22 | Verdict | 5.57 | L | 15 | fl oz/a | PRE | A | 99 | 99 | 99 | 17.6 | 262 |
| 22 | AAtrex | 90 | WG | 1.1 | lb/a | PRE | A | | | | | |
| 22 | Armezon | 2.8 | L | 0.75 | fl oz/a | POST | C | | | | | |
| 22 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | | |
| 22 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | | |
| 22 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | | |
| 23 | Verdict | 5.57 | L | 18 | fl oz/a | PRE | A | 99 | 99 | 99 | 17.9 | 247 |
| 23 | Status | 56 | WG | 5 | oz/a | POST | C | | | | | |
| 23 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | | |
| 23 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | | |
| 24 | Anthem ATZ | 4.5 | L | 1 | qt/a | PRE | A | 99 | 99 | 99 | 17.7 | 259 |
| 24 | Solstice | 4 | L | 2 | fl oz/a | POST | C | | | | | |
| 24 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | | |
| 24 | AMS | | WG | 2.5 | lb/a | POST | C | | | | | |
| 25 | Lexar EZ | 3.7 | L | 1.5 | qt/a | PRE | A | 99 | 99 | 99 | 17.6 | 263 |
| 25 | Halex GT | 4.38 | L | 3.6 | pt/a | POST | C | | | | | |
| 25 | Surfactant | | L | 0.25 | % v/v | POST | C | | | | | |
| 25 | AMS | | WG | 8.5 | lb/100 gal | POST | C | | | | | |

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C01-14 Study Dir.: Sprague and Powell
 Conducted: Campus T-17 Investigator: Christy Sprague

| Weed Code | | | | | | | | AMAPO | AMBEL | ABUTH | ZEAMX | ZEAMX |
|--------------------|------------------|-----------|-----------|-------|------------|----------|-----------|-------------|-------------|-------------|-------------|-------------|
| Crop Code | | | | | | | | control | control | control | moisture | yield |
| Rating Data Type | | | | | | | | percent | percent | percent | percent | bu/acre |
| Rating Unit | | | | | | | | Jul/10/2014 | Jul/10/2014 | Jul/10/2014 | Nov/09/2014 | Nov/09/2014 |
| Rating Date | | | | | | | | 31 DA-C | 31 DA-C | 31 DA-C | 153 DA-C | at 15% M |
| Trt-Eval Interval | | | | | | | | 0 | 0 | 0 | 1 | 0 |
| # Subsamples, Dec. | | | | | | | | | | | | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | | | | | |
| 26 | Prequel | 45 | WG | 1.66 | oz/a | PRE | A | 99 | 99 | 99 | 17.5 | 258 |
| 26 | AAtrex | 90 | WG | 1.1 | lb/a | PRE | A | | | | | |
| 26 | Abundit Extra | 3 | SL | 32 | fl oz/a | POST | C | | | | | |
| 26 | AMS | | WG | 2 | lb/a | POST | C | | | | | |
| 27 | Anthem | 2.15 | L | 8 | fl oz/a | PRE | A | 99 | 99 | 99 | 18.1 | 252 |
| 27 | AAtrex | 90 | WG | 0.56 | lb/a | POST | C | | | | | |
| 27 | Solstice | 4 | L | 2 | fl oz/a | POST | C | | | | | |
| 27 | Roundup PowerMax | 4.5 | SL | 32 | fl oz/a | POST | C | | | | | |
| 27 | AMS | | WG | 2.5 | lb/a | POST | C | | | | | |
| 28 | Dual II Magnum | 7.64 | L | 0.67 | pt/a | PRE | A | 99 | 99 | 99 | 17.4 | 252 |
| 28 | Yukon | 67.5 | WG | 4 | oz/a | POST | C | | | | | |
| 28 | Roundup PowerMax | 4.5 | SL | 22 | fl oz/a | POST | C | | | | | |
| 28 | Surfactant | | L | 0.125 | % v/v | POST | C | | | | | |
| 28 | AMS | | WG | 17 | lb/100 gal | POST | C | | | | | |
| LSD (P=.05) | | | | | | | | 0.0 | 1.1 | 2.4 | 1.17 | 18.1 |
| CV | | | | | | | | 0.0 | 0.79 | 1.81 | 4.57 | 5.02 |

Means followed by same letter do not significantly differ (P=.05, LSD)