

Commercial programs for weed control in corn

Trial ID: C01-16 Study Dir.: Sprague, Powell, Stiles
 Conducted: Campus T-17 Investigator: Christy Sprague

Planting Date: May-18-2016 **Row Spacing:** 30 IN
Variety: P9807 AM **No. of Reps:** 4
Population: 32000 seeds/A **% OM:** 3.3
Soil Type: L loam **pH:** 6.2
Plot Size: 10 X 35 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plowed; spring soil finished twice
Fertilizer: 300 lb urea incorporated 200 lb 19-19-19 starter

Crop and Weed Description

| Weed | Code | Common Name | Scientific Name |
|------|-------|------------------------|-------------------------|
| 1 | ANGR | mainly foxtail species | Annual grass |
| 2 | CHEAL | lambsquarters, common | Chenopodium album |
| 3 | AMAPO | amaranth, Powell | Amaranthus powellii |
| 4 | AMBEL | ragweed, common | Ambrosia artemisiifolia |
| 5 | ABUTH | velvetleaf | Abutilon theophrasti |
| Crop | Code | Common Name | |
| 1 | ZEAMX | Corn | |

Application Description

| | A | B | C | D |
|---------------------------------------|-------------|------------|-------------|-------------|
| Application Timing: | PRE | EPOS | POST | LPOS |
| Date Treated: | May-18-2016 | Jun-6-2016 | Jun-13-2016 | Jun-21-2016 |
| Time Treated: | 6:30 PM | 9:15 AM | 9:10 AM | 7:30 AM |
| % Cloud Cover: | 40 | 0 | 60 | 0 |
| Air Temp., Unit: | 62 F | 67 F | 63 F | 65 F |
| % Relative Humidity: | 38 | 61 | 54 | 62 |
| Wind Speed/Unit/Dir: | 4 mph E | 5.2 mph SW | 3 mph SE | 11 mph W |
| Soil Temp, Unit: | 52 F | 63 F | 72 F | 71 F |
| Leaf Moist/Dew Presence (Y/N): | 5 | 5 | 5 | 5 |
| Soil Moist: | 4 | 3 | 4 | 5 |

Crop Stage at Each Application

| | A | B | C | D |
|---------------------|-------|-------|-------|-------|
| Crop 1 Name: | ZEAMX | ZEAMX | ZEAMX | ZEAMX |
| Height: | | 6 " | 12 " | 24 " |
| Stage: | | V3 | V5 | V6 |

Weed Stage at Each Application

| | A | B | C | D |
|---------------------|-------|-------------|-------------|-----------|
| Weed 1 Name: | ANGR | ANGR | ANGR | ANGR |
| Height: | | 3-4 " (3) | 4-5 " (4) | 6 " |
| Stage: | | 3L | 4L | 4L |
| Weed 2 Name: | CHEAL | CHEAL | CHEAL | CHEAL |
| Height: | | 0.5-1 " (1) | 1-1.5 " (1) | 3-4 " (3) |
| Stage: | | 6L | 6L | 9L |
| Weed 3 Name: | AMAPO | AMAPO | AMAPO | AMAPO |
| Height: | | 1.5-2 " (2) | 2 " | 3-4 " (3) |
| Stage: | | 3-5L | 6L | 6L |
| Weed 4 Name: | AMBEL | AMBEL | AMBEL | AMBEL |
| Height: | | 1.5 " | 2-2.5 " (2) | 3-4 " (3) |
| Stage: | | 6L | 6L | 6L |
| Weed 5 Name: | ABUTH | ABUTH | ABUTH | ABUTH |
| Height: | | 1.5-2 " (2) | 0.5-1 " (1) | 3-4 " (3) |
| Stage: | | 2-4L | 2-4L | 3L |

Weed Density

| | 1 | 2 | 3 | 4 | 5 |
|-------------------|-------------|-------------|-------------|-------------|-------------|
| Date: | Jun-21-2016 | Jun-21-2016 | Jun-21-2016 | Jun-21-2016 | Jun-21-2016 |
| Weed Name: | ANGR | CHEAL | AMAPO | AMBEL | ABUTH |
| Density: | 1 FT2 | 5 FT2 | 1 FT2 | 1 FT2 | 1 FT2 |

Application Equipment

Commercial programs for weed control in corn

Trial ID: C01-16 Study Dir.: Sprague, Powell, Stiles
Conducted: Campus T-17 Investigator: Christy Sprague

| Appl | Sprayer Type | Ground Speed | Nozzle Type | Nozzle Size | Nozzle Height | Nozzle Spacing | Boom Width | Spray Volume | Carrier | Operation Pressure |
|-------------|-------------------------|-------------------------|------------------------|------------------------|--------------------------|---------------------------|-----------------------|-------------------------|----------------|-------------------------------|
| A | CUB | 3.8 mph | AIXR | 11003 | 22 " | 20 " | 100 " | 19 GAL/AC | WATER | 30 PSI |
| B | CUB | 3.8 mph | AIXR | 11003 | 26 " | 20 " | 100 " | 19 GAL/AC | WATER | 30 PSI |
| C | CUB | 3.8 mph | AIXR | 11003 | 28 " | 20 " | 100 " | 19 GAL/AC | WATER | 30 PSI |
| D | CUB | 3.8 mph | AIXR | 11003 | 29 " | 20 " | 100 " | 19 GAL/AC | WATER | 30 PSI |

Comments:

Commercial programs for weed control in corn

Trial ID: C01-16

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

| | | | | | | |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Pest Code | | ANGR | CHEAL | AMAPO | AMBEL | ABUTH |
| Crop Code | ZEAMX | | | | | |
| Rating Date | Jun-13-2016 | Jun-13-2016 | Jun-13-2016 | Jun-13-2016 | Jun-13-2016 | Jun-13-2016 |
| Rating Type | injury | control | control | control | control | control |
| Rating Unit | percent | percent | percent | percent | percent | percent |
| Trt-Eval Interval | 7 DA-B | 7 DA-B | 7 DA-B | 7 DA-B | 7 DA-B | 7 DA-B |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Rate Unit | Appl Code | | | | | | |
|---------|------------------|----------------|-----------|---|-----|-----|-----|-----|-----|
| 1 | Balance Flexx | 4 fl oz/a | A | 0 | 94 | 98 | 100 | 93 | 94 |
| 1 | Harness Xtra | 3.6 pt/a | A | | | | | | |
| 2 | Corvus | 3.3 fl oz/a | A | 0 | 95 | 93 | 100 | 91 | 99 |
| 2 | Harness Xtra | 3 pt/a | A | | | | | | |
| 3 | Keystone NXT | 2.4 qt/a | A | 0 | 96 | 97 | 100 | 92 | 93 |
| 3 | Hornet | 3 oz/a | A | | | | | | |
| 4 | Resicore | 2.75 qt/a | A | 0 | 95 | 60 | 90 | 80 | 82 |
| 5 | Resicore | 2 qt/a | A | 0 | 96 | 99 | 99 | 93 | 85 |
| 5 | Keystone NXT | 1 qt/a | A | | | | | | |
| 6 | Capreno | 3 fl oz/a | B | 5 | 100 | 98 | 99 | 100 | 99 |
| 6 | Roundup PowerMax | 22 fl oz/a | B | | | | | | |
| 6 | AMS | 8.5 lb/100 gal | B | | | | | | |
| 7 | Harness Xtra | 3.6 pt/a | B | 8 | 100 | 100 | 100 | 100 | 99 |
| 7 | Impact | 1 fl oz/a | B | | | | | | |
| 7 | MSO | 0.25 % v/v | B | | | | | | |
| 7 | AMS (Liquid) | 2.5 % v/v | B | | | | | | |
| 8 | Armezon PRO | 16 fl oz/a | B | 1 | 99 | 100 | 100 | 100 | 99 |
| 8 | Roundup PowerMax | 16 fl oz/a | B | | | | | | |
| 8 | Atrazine | 1.1 lb/a | B | | | | | | |
| 8 | Surfactant | 0.25 % v/v | B | | | | | | |
| 8 | AMS | 8.5 lb/100 gal | B | | | | | | |
| 9 | Resicore | 1.25 qt/a | B | 0 | 100 | 98 | 100 | 100 | 100 |
| 9 | Durango DMA | 32 fl oz/a | B | | | | | | |
| 9 | AMS (Liquid) | 2.5 % v/v | B | | | | | | |
| 10 | Degree Xtra | 1 qt/a | B | 0 | 99 | 98 | 100 | 100 | 98 |
| 10 | Impact | 0.5 fl oz/a | B | | | | | | |
| 10 | Roundup PowerMax | 22 fl oz/a | B | | | | | | |
| 10 | AMS | 17 lb/100 gal | B | | | | | | |
| 11 | Warrant | 3 pt/a | B | 0 | 96 | 87 | 100 | 96 | 99 |
| 11 | Atrazine | 0.56 lb/a | B | | | | | | |
| 11 | Roundup PowerMax | 22 fl oz/a | B | | | | | | |
| 11 | AMS | 17 lb/100 gal | B | | | | | | |
| 11 | Roundup PowerMax | 22 fl oz/a | D | | | | | | |
| 11 | AMS | 17 lb/100 gal | D | | | | | | |

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27
 Could not calculate LSD (% mean diff) for columns 13,19 because error mean square = 0.

Commercial programs for weed control in corn

Trial ID: C01-16

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

| | | | | | | |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Pest Code | | ANGR | CHEAL | AMAPO | AMBEL | ABUTH |
| Crop Code | ZEAMX | | | | | |
| Rating Date | Jun-13-2016 | Jun-13-2016 | Jun-13-2016 | Jun-13-2016 | Jun-13-2016 | Jun-13-2016 |
| Rating Type | injury | control | control | control | control | control |
| Rating Unit | percent | percent | percent | percent | percent | percent |
| Trt-Eval Interval | 7 DA-B | 7 DA-B | 7 DA-B | 7 DA-B | 7 DA-B | 7 DA-B |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Rate Unit | Appl Code | | | | | | |
|---------|------------------|----------------|-----------|---|----|-----|-----|-----|----|
| 12 | Untreated | | | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | Cinch ATZ | 1 qt/a | A | 0 | 75 | 100 | 100 | 100 | 90 |
| 13 | Revulin Q | 3.4 oz/a | B | | | | | | |
| 13 | Surfactant | 0.25 % v/v | B | | | | | | |
| 13 | AMS | 2 lb/a | B | | | | | | |
| 14 | Cinch ATZ | 1 qt/a | A | 0 | 87 | 100 | 100 | 88 | 90 |
| 14 | Resolve Q | 1.25 oz/a | B | | | | | | |
| 14 | Status | 5 oz/a | B | | | | | | |
| 14 | Surfactant | 0.25 % v/v | B | | | | | | |
| 14 | AMS | 2 lb/a | B | | | | | | |
| 15 | Harness Xtra | 3.6 pt/a | A | 0 | 90 | 95 | 100 | 76 | 63 |
| 15 | Impact | 0.75 fl oz/a | C | | | | | | |
| 15 | Atrazine | 0.56 lb/a | C | | | | | | |
| 15 | MSO | 1 % v/v | C | | | | | | |
| 15 | AMS (Liquid) | 2.5 % v/v | C | | | | | | |
| 16 | Harness Xtra | 3.6 pt/a | A | 0 | 91 | 98 | 100 | 74 | 63 |
| 16 | Impact | 0.75 fl oz/a | C | | | | | | |
| 16 | Liberty | 29 fl oz/a | C | | | | | | |
| 16 | Atrazine | 0.56 lb/a | C | | | | | | |
| 16 | MSO | 1 % v/v | C | | | | | | |
| 16 | AMS (Liquid) | 2.5 % v/v | C | | | | | | |
| 17 | Acuron Flexi | 1.25 qt/a | A | 0 | 88 | 83 | 92 | 78 | 93 |
| 17 | Roundup PowerMax | 32 fl oz/a | C | | | | | | |
| 17 | AMS | 8.5 lb/100 gal | C | | | | | | |
| 18 | Acuron | 1.5 qt/a | A | 0 | 78 | 80 | 100 | 76 | 80 |
| 18 | Roundup PowerMax | 32 fl oz/a | C | | | | | | |
| 18 | AMS | 8.5 lb/100 gal | C | | | | | | |
| 19 | Verdict | 16 fl oz/a | A | 0 | 91 | 68 | 83 | 69 | 77 |
| 19 | Roundup PowerMax | 32 fl oz/a | C | | | | | | |
| 19 | AMS | 8.5 lb/100 gal | C | | | | | | |
| 20 | Verdict | 16 fl oz/a | A | 0 | 96 | 93 | 100 | 92 | 90 |
| 20 | Atrazine | 1.1 lb/a | A | | | | | | |
| 20 | Roundup PowerMax | 32 fl oz/a | C | | | | | | |
| 20 | AMS | 8.5 lb/100 gal | C | | | | | | |
| 21 | Zidua | 3.3 fl oz/a | A | 0 | 90 | 93 | 100 | 80 | 91 |
| 21 | Sharpen | 2 fl oz/a | A | | | | | | |
| 21 | Atrazine | 1.1 lb/a | A | | | | | | |
| 21 | Roundup PowerMax | 32 fl oz/a | C | | | | | | |
| 21 | AMS | 8.5 lb/100 gal | C | | | | | | |

Commercial programs for weed control in corn

Trial ID: C01-16

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

| | | | | | | |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Pest Code | | ANGR | CHEAL | AMAPO | AMBEL | ABUTH |
| Crop Code | ZEAMX | | | | | |
| Rating Date | Jun-13-2016 | Jun-13-2016 | Jun-13-2016 | Jun-13-2016 | Jun-13-2016 | Jun-13-2016 |
| Rating Type | injury | control | control | control | control | control |
| Rating Unit | percent | percent | percent | percent | percent | percent |
| Trt-Eval Interval | 7 DA-B | 7 DA-B | 7 DA-B | 7 DA-B | 7 DA-B | 7 DA-B |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Rate | Rate Unit | Appl Code | | | | | |
|---------|------------------|----------------|-----------|-----------|-----|-----|-----|----|-----|
| 22 | TripleFLEX II | 2 pt/a | A | 0 | 97 | 89 | 96 | 89 | 78 |
| 22 | Degree Xtra | 1.5 qt/a | A | | | | | | |
| 22 | Roundup PowerMax | 22 fl oz/a | C | | | | | | |
| 22 | AMS | 17 lb/100 gal | C | | | | | | |
| 23 | Cinch ATZ | 2 qt/a | A | 0 | 98 | 100 | 100 | 99 | 100 |
| 23 | Instigate | 5.25 oz/a | A | | | | | | |
| 23 | Abundit Extra | 1 qt/a | C | | | | | | |
| 23 | AMS | 2 lb/a | C | | | | | | |
| 24 | Instigate | 5.25 oz/a | A | 0 | 95 | 70 | 70 | 74 | 100 |
| 24 | Atrazine | 1.1 lb/a | C | | | | | | |
| 24 | Abundit Extra | 1 qt/a | C | | | | | | |
| 24 | AMS | 2 lb/a | C | | | | | | |
| 25 | Harness Xtra | 3.6 pt/a | A | 0 | 100 | 95 | 100 | 82 | 85 |
| 25 | Impact | 0.75 fl oz/a | C | | | | | | |
| 25 | Roundup PowerMax | 32 fl oz/a | C | | | | | | |
| 25 | Atrazine | 0.56 lb/a | C | | | | | | |
| 25 | MSO | 0.5 % v/v | C | | | | | | |
| 25 | AMS (Liquid) | 2.5 % v/v | C | | | | | | |
| 26 | Balance Flexx | 4 fl oz/a | A | 0 | 100 | 75 | 85 | 79 | 94 |
| 26 | Roundup PowerMax | 22 fl oz/a | C | | | | | | |
| 26 | DiFlexx Duo | 24 fl oz/a | C | | | | | | |
| 26 | AMS | 8.5 lb/100 gal | C | | | | | | |
| 27 | Degree Xtra | 2 qt/a | A | 0 | 100 | 100 | 100 | 61 | 75 |
| 27 | Status | 2 oz/a | C | | | | | | |
| 27 | Roundup PowerMax | 22 fl oz/a | C | | | | | | |
| 27 | AMS | 17 lb/100 gal | C | | | | | | |
| 28 | Acuron Flexi | 1.25 qt/a | A | 0 | 96 | 81 | 95 | 81 | 90 |
| 28 | Halex GT | 3.6 pt/a | C | | | | | | |
| 28 | Surfactant | 0.5 % v/v | C | | | | | | |
| 28 | AMS | 8.5 lb/100 gal | C | | | | | | |
| 29 | Acuron | 1.5 qt/a | A | 0 | 97 | 95 | 100 | 88 | 100 |
| 29 | Halex GT | 3.6 pt/a | C | | | | | | |
| 29 | Surfactant | 0.5 % v/v | C | | | | | | |
| 29 | AMS | 8.5 lb/100 gal | C | | | | | | |
| 30 | Anthem MAXX | 3.5 fl oz/a | A | 0 | 93 | 76 | 93 | 75 | 78 |
| 30 | Simazine | 1.1 lb/a | A | | | | | | |
| 30 | Atrazine | 1.5 lb/a | C | | | | | | |
| 30 | Roundup PowerMax | 32 fl oz/a | C | | | | | | |
| 30 | AMS | 2.5 lb/a | C | | | | | | |

Commercial programs for weed control in corn

Trial ID: C01-16

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

| | | | | | | |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Pest Code | | ANGR | CHEAL | AMAPO | AMBEL | ABUTH |
| Crop Code | ZEAMX | | | | | |
| Rating Date | Jun-13-2016 | Jun-13-2016 | Jun-13-2016 | Jun-13-2016 | Jun-13-2016 | Jun-13-2016 |
| Rating Type | injury | control | control | control | control | control |
| Rating Unit | percent | percent | percent | percent | percent | percent |
| Trt-Eval Interval | 7 DA-B | 7 DA-B | 7 DA-B | 7 DA-B | 7 DA-B | 7 DA-B |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Rate Unit | Appl Code | | | | | | |
|--------------------|------------------|-------------|-----------|-------|------|------|------|------|------|
| 31 | Anthem MAXX | 3.5 fl oz/a | A | 2 | 100 | 95 | 100 | 75 | 91 |
| 31 | Atrazine | 1.1 lb/a | A | | | | | | |
| 31 | Solstice | 2.5 oz/a | C | | | | | | |
| 31 | Atrazine | 0.56 lb/a | C | | | | | | |
| 31 | Roundup PowerMax | 32 fl oz/a | C | | | | | | |
| 31 | AMS | 2.5 lb/a | C | | | | | | |
| 32 | Weed-free | | | 0 | 100 | 100 | 100 | 100 | 100 |
| LSD | P=.05 | | | 0.9 | 7.6 | 6.7 | 5.6 | 6.8 | 8.4 |
| Standard Deviation | | | | 0.6 | 5.4 | 4.8 | 4.0 | 4.8 | 5.9 |
| CV | | | | 135.1 | 5.92 | 5.45 | 4.23 | 5.77 | 6.87 |

Commercial programs for weed control in corn

Trial ID: C01-16

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

| | | | | | | |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Pest Code | | ANGR | CHEAL | AMAPO | AMBEL | ABUTH |
| Crop Code | ZEAMX | | | | | |
| Rating Date | Jun-20-2016 | Jun-20-2016 | Jun-20-2016 | Jun-20-2016 | Jun-20-2016 | Jun-20-2016 |
| Rating Type | injury | control | control | control | control | control |
| Rating Unit | percent | percent | percent | percent | percent | percent |
| Trt-Eval Interval | 14 DA-B | 14 DA-B | 14 DA-B | 14 DA-B | 14 DA-B | 14 DA-B |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Rate Unit | Appl Code | | | | | | |
|---------|------------------|----------------|-----------|---|-----|-----|-----|-----|----|
| 1 | Balance Flexx | 4 fl oz/a | A | 0 | 88 | 90 | 100 | 81 | 83 |
| 1 | Harness Xtra | 3.6 pt/a | A | | | | | | |
| 2 | Corvus | 3.3 fl oz/a | A | 0 | 80 | 92 | 100 | 79 | 93 |
| 2 | Harness Xtra | 3 pt/a | A | | | | | | |
| 3 | Keystone NXT | 2.4 qt/a | A | 0 | 94 | 95 | 99 | 80 | 83 |
| 3 | Hornet | 3 oz/a | A | | | | | | |
| 4 | Resicore | 2.75 qt/a | A | 0 | 92 | 65 | 80 | 70 | 65 |
| 5 | Resicore | 2 qt/a | A | 0 | 94 | 88 | 100 | 83 | 88 |
| 5 | Keystone NXT | 1 qt/a | A | | | | | | |
| 6 | Capreno | 3 fl oz/a | B | 0 | 98 | 65 | 94 | 96 | 93 |
| 6 | Roundup PowerMax | 22 fl oz/a | B | | | | | | |
| 6 | AMS | 8.5 lb/100 gal | B | | | | | | |
| 7 | Harness Xtra | 3.6 pt/a | B | 5 | 99 | 100 | 100 | 100 | 91 |
| 7 | Impact | 1 fl oz/a | B | | | | | | |
| 7 | MSO | 0.25 % v/v | B | | | | | | |
| 7 | AMS (Liquid) | 2.5 % v/v | B | | | | | | |
| 8 | Armezon PRO | 16 fl oz/a | B | 0 | 92 | 100 | 100 | 100 | 94 |
| 8 | Roundup PowerMax | 16 fl oz/a | B | | | | | | |
| 8 | Atrazine | 1.1 lb/a | B | | | | | | |
| 8 | Surfactant | 0.25 % v/v | B | | | | | | |
| 8 | AMS | 8.5 lb/100 gal | B | | | | | | |
| 9 | Resicore | 1.25 qt/a | B | 0 | 100 | 81 | 98 | 96 | 94 |
| 9 | Durango DMA | 32 fl oz/a | B | | | | | | |
| 9 | AMS (Liquid) | 2.5 % v/v | B | | | | | | |
| 10 | Degree Xtra | 1 qt/a | B | 0 | 99 | 86 | 98 | 98 | 89 |
| 10 | Impact | 0.5 fl oz/a | B | | | | | | |
| 10 | Roundup PowerMax | 22 fl oz/a | B | | | | | | |
| 10 | AMS | 17 lb/100 gal | B | | | | | | |
| 11 | Warrant | 3 pt/a | B | 0 | 93 | 84 | 100 | 93 | 93 |
| 11 | Atrazine | 0.56 lb/a | B | | | | | | |
| 11 | Roundup PowerMax | 22 fl oz/a | B | | | | | | |
| 11 | AMS | 17 lb/100 gal | B | | | | | | |
| 11 | Roundup PowerMax | 22 fl oz/a | D | | | | | | |
| 11 | AMS | 17 lb/100 gal | D | | | | | | |

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Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

| | | | | | | |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Pest Code | | ANGR | CHEAL | AMAPO | AMBEL | ABUTH |
| Crop Code | ZEAMX | | | | | |
| Rating Date | Jun-20-2016 | Jun-20-2016 | Jun-20-2016 | Jun-20-2016 | Jun-20-2016 | Jun-20-2016 |
| Rating Type | injury | control | control | control | control | control |
| Rating Unit | percent | percent | percent | percent | percent | percent |
| Trt-Eval Interval | 14 DA-B | 14 DA-B | 14 DA-B | 14 DA-B | 14 DA-B | 14 DA-B |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Rate Unit | Appl Code | | | | | | |
|---------|------------------|----------------|-----------|---|-----|-----|-----|-----|-----|
| 12 | Untreated | | | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | Cinch ATZ | 1 qt/a | A | 1 | 93 | 84 | 100 | 96 | 93 |
| 13 | Revulin Q | 3.4 oz/a | B | | | | | | |
| 13 | Surfactant | 0.25 % v/v | B | | | | | | |
| 13 | AMS | 2 lb/a | B | | | | | | |
| 14 | Cinch ATZ | 1 qt/a | A | 0 | 83 | 85 | 100 | 93 | 85 |
| 14 | Resolve Q | 1.25 oz/a | B | | | | | | |
| 14 | Status | 5 oz/a | B | | | | | | |
| 14 | Surfactant | 0.25 % v/v | B | | | | | | |
| 14 | AMS | 2 lb/a | B | | | | | | |
| 15 | Harness Xtra | 3.6 pt/a | A | 0 | 100 | 100 | 100 | 100 | 100 |
| 15 | Impact | 0.75 fl oz/a | C | | | | | | |
| 15 | Atrazine | 0.56 lb/a | C | | | | | | |
| 15 | MSO | 1 % v/v | C | | | | | | |
| 15 | AMS (Liquid) | 2.5 % v/v | C | | | | | | |
| 16 | Harness Xtra | 3.6 pt/a | A | 0 | 100 | 100 | 100 | 100 | 99 |
| 16 | Impact | 0.75 fl oz/a | C | | | | | | |
| 16 | Liberty | 29 fl oz/a | C | | | | | | |
| 16 | Atrazine | 0.56 lb/a | C | | | | | | |
| 16 | MSO | 1 % v/v | C | | | | | | |
| 16 | AMS (Liquid) | 2.5 % v/v | C | | | | | | |
| 17 | Acuron Flexi | 1.25 qt/a | A | 0 | 100 | 100 | 100 | 94 | 100 |
| 17 | Roundup PowerMax | 32 fl oz/a | C | | | | | | |
| 17 | AMS | 8.5 lb/100 gal | C | | | | | | |
| 18 | Acuron | 1.5 qt/a | A | 0 | 100 | 100 | 100 | 100 | 98 |
| 18 | Roundup PowerMax | 32 fl oz/a | C | | | | | | |
| 18 | AMS | 8.5 lb/100 gal | C | | | | | | |
| 19 | Verdict | 16 fl oz/a | A | 0 | 100 | 100 | 100 | 100 | 97 |
| 19 | Roundup PowerMax | 32 fl oz/a | C | | | | | | |
| 19 | AMS | 8.5 lb/100 gal | C | | | | | | |
| 20 | Verdict | 16 fl oz/a | A | 0 | 96 | 98 | 100 | 96 | 91 |
| 20 | Atrazine | 1.1 lb/a | A | | | | | | |
| 20 | Roundup PowerMax | 32 fl oz/a | C | | | | | | |
| 20 | AMS | 8.5 lb/100 gal | C | | | | | | |
| 21 | Zidua | 3.3 fl oz/a | A | 0 | 100 | 100 | 100 | 98 | 96 |
| 21 | Sharpen | 2 fl oz/a | A | | | | | | |
| 21 | Atrazine | 1.1 lb/a | A | | | | | | |
| 21 | Roundup PowerMax | 32 fl oz/a | C | | | | | | |
| 21 | AMS | 8.5 lb/100 gal | C | | | | | | |

Commercial programs for weed control in corn

Trial ID: C01-16

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

| | | | | | | |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Pest Code | | ANGR | CHEAL | AMAPO | AMBEL | ABUTH |
| Crop Code | ZEAMX | | | | | |
| Rating Date | Jun-20-2016 | Jun-20-2016 | Jun-20-2016 | Jun-20-2016 | Jun-20-2016 | Jun-20-2016 |
| Rating Type | injury | control | control | control | control | control |
| Rating Unit | percent | percent | percent | percent | percent | percent |
| Trt-Eval Interval | 14 DA-B | 14 DA-B | 14 DA-B | 14 DA-B | 14 DA-B | 14 DA-B |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Rate | Rate Unit | Appl Code | | | | | |
|---------|------------------|----------------|-----------|-----------|---|-----|-----|-----|-----|
| 22 | TripleFLEX II | 2 pt/a | A | | 0 | 100 | 100 | 100 | 100 |
| 22 | Degree Xtra | 1.5 qt/a | A | | | | | | 95 |
| 22 | Roundup PowerMax | 22 fl oz/a | C | | | | | | |
| 22 | AMS | 17 lb/100 gal | C | | | | | | |
| 23 | Cinch ATZ | 2 qt/a | A | | 0 | 100 | 100 | 100 | 100 |
| 23 | Instigate | 5.25 oz/a | A | | | | | | |
| 23 | Abundit Extra | 1 qt/a | C | | | | | | |
| 23 | AMS | 2 lb/a | C | | | | | | |
| 24 | Instigate | 5.25 oz/a | A | | 0 | 100 | 95 | 100 | 97 |
| 24 | Atrazine | 1.1 lb/a | C | | | | | | 100 |
| 24 | Abundit Extra | 1 qt/a | C | | | | | | |
| 24 | AMS | 2 lb/a | C | | | | | | |
| 25 | Harness Xtra | 3.6 pt/a | A | | 0 | 100 | 100 | 100 | 100 |
| 25 | Impact | 0.75 fl oz/a | C | | | | | | |
| 25 | Roundup PowerMax | 32 fl oz/a | C | | | | | | |
| 25 | Atrazine | 0.56 lb/a | C | | | | | | |
| 25 | MSO | 0.5 % v/v | C | | | | | | |
| 25 | AMS (Liquid) | 2.5 % v/v | C | | | | | | |
| 26 | Balance Flexx | 4 fl oz/a | A | | 0 | 100 | 100 | 100 | 96 |
| 26 | Roundup PowerMax | 22 fl oz/a | C | | | | | | 100 |
| 26 | DiFlexx Duo | 24 fl oz/a | C | | | | | | |
| 26 | AMS | 8.5 lb/100 gal | C | | | | | | |
| 27 | Degree Xtra | 2 qt/a | A | | 0 | 100 | 100 | 100 | 94 |
| 27 | Status | 2 oz/a | C | | | | | | |
| 27 | Roundup PowerMax | 22 fl oz/a | C | | | | | | |
| 27 | AMS | 17 lb/100 gal | C | | | | | | |
| 28 | Acuron Flexi | 1.25 qt/a | A | | 0 | 100 | 100 | 100 | 94 |
| 28 | Halex GT | 3.6 pt/a | C | | | | | | 100 |
| 28 | Surfactant | 0.5 % v/v | C | | | | | | |
| 28 | AMS | 8.5 lb/100 gal | C | | | | | | |
| 29 | Acuron | 1.5 qt/a | A | | 0 | 100 | 100 | 100 | 99 |
| 29 | Halex GT | 3.6 pt/a | C | | | | | | 100 |
| 29 | Surfactant | 0.5 % v/v | C | | | | | | |
| 29 | AMS | 8.5 lb/100 gal | C | | | | | | |
| 30 | Anthem MAXX | 3.5 fl oz/a | A | | 0 | 99 | 100 | 100 | 95 |
| 30 | Simizine | 1.1 lb/a | A | | | | | | 98 |
| 30 | Atrazine | 1.5 lb/a | C | | | | | | |
| 30 | Roundup PowerMax | 32 fl oz/a | C | | | | | | |
| 30 | AMS | 2.5 lb/a | C | | | | | | |

Commercial programs for weed control in corn

Trial ID: C01-16

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

| | | | | | | |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Pest Code | | ANGR | CHEAL | AMAPO | AMBEL | ABUTH |
| Crop Code | ZEAMX | | | | | |
| Rating Date | Jun-20-2016 | Jun-20-2016 | Jun-20-2016 | Jun-20-2016 | Jun-20-2016 | Jun-20-2016 |
| Rating Type | injury | control | control | control | control | control |
| Rating Unit | percent | percent | percent | percent | percent | percent |
| Trt-Eval Interval | 14 DA-B | 14 DA-B | 14 DA-B | 14 DA-B | 14 DA-B | 14 DA-B |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Rate Unit | Appl Code | | | | | |
|--------------------|------------------|-------------|-----------|--------|------|------|------|------|
| 31 | Anthem MAXX | 3.5 fl oz/a | A | 3 | 100 | 100 | 100 | 100 |
| 31 | Atrazine | 1.1 lb/a | A | | | | | |
| 31 | Solstice | 2.5 oz/a | C | | | | | |
| 31 | Atrazine | 0.56 lb/a | C | | | | | |
| 31 | Roundup PowerMax | 32 fl oz/a | C | | | | | |
| 31 | AMS | 2.5 lb/a | C | | | | | |
| 32 | Weed-free | | | 0 | 100 | 100 | 100 | 100 |
| LSD P=.05 | | | | 0.6 | 10.9 | 8.8 | 5.9 | 9.0 |
| Standard Deviation | | | | 0.5 | 7.8 | 6.3 | 4.2 | 6.4 |
| CV | | | | 165.82 | 8.29 | 6.93 | 4.36 | 7.04 |

Commercial programs for weed control in corn

Trial ID: C01-16

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

| | | | | | | |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Pest Code | | ANGR | CHEAL | AMAPO | AMBEL | ABUTH |
| Crop Code | ZEAMX | | | | | |
| Rating Date | Jun-27-2016 | Jun-27-2016 | Jun-27-2016 | Jun-27-2016 | Jun-27-2016 | Jun-27-2016 |
| Rating Type | injury | control | control | control | control | control |
| Rating Unit | percent | percent | percent | percent | percent | percent |
| Trt-Eval Interval | 14 DA-C | 14 DA-C | 14 DA-C | 14 DA-C | 14 DA-C | 14 DA-C |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Rate Unit | Appl Code | | | | | | |
|---------|------------------|----------------|-----------|---|-----|----|-----|-----|-----|
| 1 | Balance Flexx | 4 fl oz/a | A | 0 | 87 | 83 | 100 | 83 | 79 |
| 1 | Harness Xtra | 3.6 pt/a | A | | | | | | |
| 2 | Corvus | 3.3 fl oz/a | A | 0 | 90 | 89 | 100 | 82 | 83 |
| 2 | Harness Xtra | 3 pt/a | A | | | | | | |
| 3 | Keystone NXT | 2.4 qt/a | A | 0 | 95 | 88 | 98 | 80 | 82 |
| 3 | Hornet | 3 oz/a | A | | | | | | |
| 4 | Resicore | 2.75 qt/a | A | 0 | 88 | 73 | 82 | 70 | 65 |
| 5 | Resicore | 2 qt/a | A | 0 | 95 | 83 | 97 | 78 | 70 |
| 5 | Keystone NXT | 1 qt/a | A | | | | | | |
| 6 | Capreno | 3 fl oz/a | B | 0 | 96 | 71 | 83 | 95 | 91 |
| 6 | Roundup PowerMax | 22 fl oz/a | B | | | | | | |
| 6 | AMS | 8.5 lb/100 gal | B | | | | | | |
| 7 | Harness Xtra | 3.6 pt/a | B | 0 | 99 | 95 | 100 | 100 | 91 |
| 7 | Impact | 1 fl oz/a | B | | | | | | |
| 7 | MSO | 0.25 % v/v | B | | | | | | |
| 7 | AMS (Liquid) | 2.5 % v/v | B | | | | | | |
| 8 | Armezon PRO | 16 fl oz/a | B | 0 | 98 | 97 | 100 | 100 | 93 |
| 8 | Roundup PowerMax | 16 fl oz/a | B | | | | | | |
| 8 | Atrazine | 1.1 lb/a | B | | | | | | |
| 8 | Surfactant | 0.25 % v/v | B | | | | | | |
| 8 | AMS | 8.5 lb/100 gal | B | | | | | | |
| 9 | Resicore | 1.25 qt/a | B | 0 | 100 | 80 | 100 | 100 | 95 |
| 9 | Durango DMA | 32 fl oz/a | B | | | | | | |
| 9 | AMS (Liquid) | 2.5 % v/v | B | | | | | | |
| 10 | Degree Xtra | 1 qt/a | B | 0 | 97 | 85 | 100 | 96 | 92 |
| 10 | Impact | 0.5 fl oz/a | B | | | | | | |
| 10 | Roundup PowerMax | 22 fl oz/a | B | | | | | | |
| 10 | AMS | 17 lb/100 gal | B | | | | | | |
| 11 | Warrant | 3 pt/a | B | 0 | 98 | 97 | 100 | 100 | 100 |
| 11 | Atrazine | 0.56 lb/a | B | | | | | | |
| 11 | Roundup PowerMax | 22 fl oz/a | B | | | | | | |
| 11 | AMS | 17 lb/100 gal | B | | | | | | |
| 11 | Roundup PowerMax | 22 fl oz/a | D | | | | | | |
| 11 | AMS | 17 lb/100 gal | D | | | | | | |

Commercial programs for weed control in corn

Trial ID: C01-16

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

| | | | | | | |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Pest Code | | ANGR | CHEAL | AMAPO | AMBEL | ABUTH |
| Crop Code | ZEAMX | | | | | |
| Rating Date | Jun-27-2016 | Jun-27-2016 | Jun-27-2016 | Jun-27-2016 | Jun-27-2016 | Jun-27-2016 |
| Rating Type | injury | control | control | control | control | control |
| Rating Unit | percent | percent | percent | percent | percent | percent |
| Trt-Eval Interval | 14 DA-C | 14 DA-C | 14 DA-C | 14 DA-C | 14 DA-C | 14 DA-C |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Rate Unit | Appl Code | | | | | | |
|---------|------------------|----------------|-----------|---|-----|-----|-----|-----|-----|
| 12 | Untreated | | | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | Cinch ATZ | 1 qt/a | A | 0 | 91 | 83 | 100 | 96 | 93 |
| 13 | Revulin Q | 3.4 oz/a | B | | | | | | |
| 13 | Surfactant | 0.25 % v/v | B | | | | | | |
| 13 | AMS | 2 lb/a | B | | | | | | |
| 14 | Cinch ATZ | 1 qt/a | A | 0 | 91 | 78 | 100 | 98 | 91 |
| 14 | Resolve Q | 1.25 oz/a | B | | | | | | |
| 14 | Status | 5 oz/a | B | | | | | | |
| 14 | Surfactant | 0.25 % v/v | B | | | | | | |
| 14 | AMS | 2 lb/a | B | | | | | | |
| 15 | Harness Xtra | 3.6 pt/a | A | 0 | 99 | 100 | 100 | 100 | 100 |
| 15 | Impact | 0.75 fl oz/a | C | | | | | | |
| 15 | Atrazine | 0.56 lb/a | C | | | | | | |
| 15 | MSO | 1 % v/v | C | | | | | | |
| 15 | AMS (Liquid) | 2.5 % v/v | C | | | | | | |
| 16 | Harness Xtra | 3.6 pt/a | A | 0 | 100 | 100 | 100 | 100 | 100 |
| 16 | Impact | 0.75 fl oz/a | C | | | | | | |
| 16 | Liberty | 29 fl oz/a | C | | | | | | |
| 16 | Atrazine | 0.56 lb/a | C | | | | | | |
| 16 | MSO | 1 % v/v | C | | | | | | |
| 16 | AMS (Liquid) | 2.5 % v/v | C | | | | | | |
| 17 | Acuron Flexi | 1.25 qt/a | A | 0 | 100 | 95 | 100 | 97 | 100 |
| 17 | Roundup PowerMax | 32 fl oz/a | C | | | | | | |
| 17 | AMS | 8.5 lb/100 gal | C | | | | | | |
| 18 | Acuron | 1.5 qt/a | A | 0 | 100 | 100 | 100 | 100 | 100 |
| 18 | Roundup PowerMax | 32 fl oz/a | C | | | | | | |
| 18 | AMS | 8.5 lb/100 gal | C | | | | | | |
| 19 | Verdict | 16 fl oz/a | A | 0 | 100 | 99 | 100 | 100 | 100 |
| 19 | Roundup PowerMax | 32 fl oz/a | C | | | | | | |
| 19 | AMS | 8.5 lb/100 gal | C | | | | | | |
| 20 | Verdict | 16 fl oz/a | A | 0 | 97 | 95 | 100 | 95 | 95 |
| 20 | Atrazine | 1.1 lb/a | A | | | | | | |
| 20 | Roundup PowerMax | 32 fl oz/a | C | | | | | | |
| 20 | AMS | 8.5 lb/100 gal | C | | | | | | |
| 21 | Zidua | 3.3 fl oz/a | A | 0 | 100 | 100 | 100 | 100 | 100 |
| 21 | Sharpen | 2 fl oz/a | A | | | | | | |
| 21 | Atrazine | 1.1 lb/a | A | | | | | | |
| 21 | Roundup PowerMax | 32 fl oz/a | C | | | | | | |
| 21 | AMS | 8.5 lb/100 gal | C | | | | | | |

Commercial programs for weed control in corn

Trial ID: C01-16

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

| | | | | | | |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Pest Code | | ANGR | CHEAL | AMAPO | AMBEL | ABUTH |
| Crop Code | ZEAMX | | | | | |
| Rating Date | Jun-27-2016 | Jun-27-2016 | Jun-27-2016 | Jun-27-2016 | Jun-27-2016 | Jun-27-2016 |
| Rating Type | injury | control | control | control | control | control |
| Rating Unit | percent | percent | percent | percent | percent | percent |
| Trt-Eval Interval | 14 DA-C | 14 DA-C | 14 DA-C | 14 DA-C | 14 DA-C | 14 DA-C |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Rate | Rate Unit | Appl Code | | | | | |
|---------|------------------|----------------|-----------|-----------|-----|-----|-----|-----|-----|
| 22 | TripleFLEX II | 2 pt/a | A | 0 | 100 | 100 | 100 | 100 | 100 |
| 22 | Degree Xtra | 1.5 qt/a | A | | | | | | |
| 22 | Roundup PowerMax | 22 fl oz/a | C | | | | | | |
| 22 | AMS | 17 lb/100 gal | C | | | | | | |
| 23 | Cinch ATZ | 2 qt/a | A | 0 | 100 | 100 | 100 | 100 | 100 |
| 23 | Instigate | 5.25 oz/a | A | | | | | | |
| 23 | Abundit Extra | 1 qt/a | C | | | | | | |
| 23 | AMS | 2 lb/a | C | | | | | | |
| 24 | Instigate | 5.25 oz/a | A | 0 | 100 | 99 | 100 | 100 | 100 |
| 24 | Atrazine | 1.1 lb/a | C | | | | | | |
| 24 | Abundit Extra | 1 qt/a | C | | | | | | |
| 24 | AMS | 2 lb/a | C | | | | | | |
| 25 | Harness Xtra | 3.6 pt/a | A | 0 | 100 | 100 | 100 | 100 | 100 |
| 25 | Impact | 0.75 fl oz/a | C | | | | | | |
| 25 | Roundup PowerMax | 32 fl oz/a | C | | | | | | |
| 25 | Atrazine | 0.56 lb/a | C | | | | | | |
| 25 | MSO | 0.5 % v/v | C | | | | | | |
| 25 | AMS (Liquid) | 2.5 % v/v | C | | | | | | |
| 26 | Balance Flexx | 4 fl oz/a | A | 0 | 100 | 100 | 100 | 100 | 100 |
| 26 | Roundup PowerMax | 22 fl oz/a | C | | | | | | |
| 26 | DiFlexx Duo | 24 fl oz/a | C | | | | | | |
| 26 | AMS | 8.5 lb/100 gal | C | | | | | | |
| 27 | Degree Xtra | 2 qt/a | A | 0 | 100 | 100 | 100 | 100 | 100 |
| 27 | Status | 2 oz/a | C | | | | | | |
| 27 | Roundup PowerMax | 22 fl oz/a | C | | | | | | |
| 27 | AMS | 17 lb/100 gal | C | | | | | | |
| 28 | Acuron Flexi | 1.25 qt/a | A | 0 | 100 | 100 | 100 | 100 | 100 |
| 28 | Halex GT | 3.6 pt/a | C | | | | | | |
| 28 | Surfactant | 0.5 % v/v | C | | | | | | |
| 28 | AMS | 8.5 lb/100 gal | C | | | | | | |
| 29 | Acuron | 1.5 qt/a | A | 0 | 100 | 100 | 100 | 100 | 100 |
| 29 | Halex GT | 3.6 pt/a | C | | | | | | |
| 29 | Surfactant | 0.5 % v/v | C | | | | | | |
| 29 | AMS | 8.5 lb/100 gal | C | | | | | | |
| 30 | Anthem MAXX | 3.5 fl oz/a | A | 0 | 100 | 100 | 100 | 99 | 100 |
| 30 | Simizine | 1.1 lb/a | A | | | | | | |
| 30 | Atrazine | 1.5 lb/a | C | | | | | | |
| 30 | Roundup PowerMax | 32 fl oz/a | C | | | | | | |
| 30 | AMS | 2.5 lb/a | C | | | | | | |

Commercial programs for weed control in corn

Trial ID: C01-16

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

| | | | | | | |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Pest Code | | ANGR | CHEAL | AMAPO | AMBEL | ABUTH |
| Crop Code | ZEAMX | | | | | |
| Rating Date | Jun-27-2016 | Jun-27-2016 | Jun-27-2016 | Jun-27-2016 | Jun-27-2016 | Jun-27-2016 |
| Rating Type | injury | control | control | control | control | control |
| Rating Unit | percent | percent | percent | percent | percent | percent |
| Trt-Eval Interval | 14 DA-C | 14 DA-C | 14 DA-C | 14 DA-C | 14 DA-C | 14 DA-C |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Rate Unit | Appl Code | | | | | |
|--------------------|------------------|-------------|-----------|-----|------|------|------|------|
| 31 | Anthem MAXX | 3.5 fl oz/a | A | 0 | 100 | 100 | 100 | 100 |
| 31 | Atrazine | 1.1 lb/a | A | | | | | |
| 31 | Solstice | 2.5 oz/a | C | | | | | |
| 31 | Atrazine | 0.56 lb/a | C | | | | | |
| 31 | Roundup PowerMax | 32 fl oz/a | C | | | | | |
| 31 | AMS | 2.5 lb/a | C | | | | | |
| 32 | Weed-free | | | 0 | 100 | 100 | 100 | 100 |
| LSD P=.05 | | | | . | 6.1 | 7.7 | 4.7 | 6.5 |
| Standard Deviation | | | | 0.0 | 4.3 | 5.5 | 3.3 | 4.6 |
| CV | | | | 0.0 | 4.58 | 6.12 | 3.47 | 4.96 |

Commercial programs for weed control in corn

Trial ID: C01-16

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

| | | | | | | | | |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Pest Code | | ANGR | CHEAL | AMAPO | AMBEL | ABUTH | | |
| Crop Code | ZEAMX | | | | | | | ZEAMX |
| Rating Date | Jul-11-2016 | Jul-11-2016 | Jul-11-2016 | Jul-11-2016 | Jul-11-2016 | Jul-11-2016 | Jul-11-2016 | Oct-19-2016 |
| Rating Type | injury | control | control | control | control | control | control | test wieght |
| Rating Unit | percent | percent | percent | percent | percent | percent | percent | lbs/bu |
| Trt-Eval Interval | 28 DA-C | 28 DA-C | 28 DA-C | 28 DA-C | 28 DA-C | 28 DA-C | 28 DA-C | 154 DA-A |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

| Trt No. | Treatment Name | Rate Unit | Appl Code | | | | | | | |
|---------|------------------|----------------|-----------|---|-----|-----|-----|-----|-----|------|
| 1 | Balance Flexx | 4 fl oz/a | A | 0 | 89 | 94 | 100 | 84 | 80 | 53.5 |
| 1 | Harness Xtra | 3.6 pt/a | A | | | | | | | |
| 2 | Corvus | 3.3 fl oz/a | A | 0 | 80 | 83 | 98 | 78 | 91 | 53.5 |
| 2 | Harness Xtra | 3 pt/a | A | | | | | | | |
| 3 | Keystone NXT | 2.4 qt/a | A | 0 | 95 | 98 | 100 | 85 | 86 | 53.9 |
| 3 | Hornet | 3 oz/a | A | | | | | | | |
| 4 | Resicore | 2.75 qt/a | A | 0 | 88 | 55 | 78 | 50 | 77 | 53.4 |
| 5 | Resicore | 2 qt/a | A | 0 | 98 | 93 | 96 | 69 | 85 | 53.5 |
| 5 | Keystone NXT | 1 qt/a | A | | | | | | | |
| 6 | Capreno | 3 fl oz/a | B | 0 | 94 | 66 | 85 | 100 | 95 | 53.6 |
| 6 | Roundup PowerMax | 22 fl oz/a | B | | | | | | | |
| 6 | AMS | 8.5 lb/100 gal | B | | | | | | | |
| 7 | Harness Xtra | 3.6 pt/a | B | 0 | 100 | 93 | 96 | 100 | 97 | 53.4 |
| 7 | Impact | 1 fl oz/a | B | | | | | | | |
| 7 | MSO | 0.25 % v/v | B | | | | | | | |
| 7 | AMS (Liquid) | 2.5 % v/v | B | | | | | | | |
| 8 | Armezon PRO | 16 fl oz/a | B | 0 | 96 | 96 | 100 | 100 | 95 | 53.8 |
| 8 | Roundup PowerMax | 16 fl oz/a | B | | | | | | | |
| 8 | Atrazine | 1.1 lb/a | B | | | | | | | |
| 8 | Surfactant | 0.25 % v/v | B | | | | | | | |
| 8 | AMS | 8.5 lb/100 gal | B | | | | | | | |
| 9 | Resicore | 1.25 qt/a | B | 0 | 95 | 78 | 100 | 100 | 90 | 53.6 |
| 9 | Durango DMA | 32 fl oz/a | B | | | | | | | |
| 9 | AMS (Liquid) | 2.5 % v/v | B | | | | | | | |
| 10 | Degree Xtra | 1 qt/a | B | 0 | 95 | 80 | 100 | 99 | 96 | 53.9 |
| 10 | Impact | 0.5 fl oz/a | B | | | | | | | |
| 10 | Roundup PowerMax | 22 fl oz/a | B | | | | | | | |
| 10 | AMS | 17 lb/100 gal | B | | | | | | | |
| 11 | Warrant | 3 pt/a | B | 0 | 100 | 100 | 100 | 100 | 100 | 53.1 |
| 11 | Atrazine | 0.56 lb/a | B | | | | | | | |
| 11 | Roundup PowerMax | 22 fl oz/a | B | | | | | | | |
| 11 | AMS | 17 lb/100 gal | B | | | | | | | |
| 11 | Roundup PowerMax | 22 fl oz/a | D | | | | | | | |
| 11 | AMS | 17 lb/100 gal | D | | | | | | | |

Commercial programs for weed control in corn

Trial ID: C01-16

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

| | | | | | | | | |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| Pest Code | | ANGR | CHEAL | AMAPO | AMBEL | ABUTH | | |
| Crop Code | ZEAMX | | | | | | | ZEAMX |
| Rating Date | Jul-11-2016 | Jul-11-2016 | Jul-11-2016 | Jul-11-2016 | Jul-11-2016 | Jul-11-2016 | Oct-19-2016 | |
| Rating Type | injury | control | control | control | control | control | test wight | |
| Rating Unit | percent | percent | percent | percent | percent | percent | lbs/bu | |
| Trt-Eval Interval | 28 DA-C | 28 DA-C | 28 DA-C | 28 DA-C | 28 DA-C | 28 DA-C | 154 DA-A | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |

| Trt No. | Treatment Name | Rate | Unit | Appl Code | | | | | | | |
|---------|------------------|----------------|------|-----------|---|-----|-----|-----|-----|-----|------|
| 12 | Untreated | | | | 0 | 0 | 0 | 0 | 0 | 0 | 53.8 |
| 13 | Cinch ATZ | 1 qt/a | | A | 0 | 88 | 75 | 100 | 96 | 95 | 53.8 |
| 13 | Revulin Q | 3.4 oz/a | | B | | | | | | | |
| 13 | Surfactant | 0.25 % v/v | | B | | | | | | | |
| 13 | AMS | 2 lb/a | | B | | | | | | | |
| 14 | Cinch ATZ | 1 qt/a | | A | 0 | 88 | 79 | 98 | 100 | 90 | 53.8 |
| 14 | Resolve Q | 1.25 oz/a | | B | | | | | | | |
| 14 | Status | 5 oz/a | | B | | | | | | | |
| 14 | Surfactant | 0.25 % v/v | | B | | | | | | | |
| 14 | AMS | 2 lb/a | | B | | | | | | | |
| 15 | Harness Xtra | 3.6 pt/a | | A | 0 | 94 | 100 | 100 | 100 | 100 | 53.5 |
| 15 | Impact | 0.75 fl oz/a | | C | | | | | | | |
| 15 | Atrazine | 0.56 lb/a | | C | | | | | | | |
| 15 | MSO | 1 % v/v | | C | | | | | | | |
| 15 | AMS (Liquid) | 2.5 % v/v | | C | | | | | | | |
| 16 | Harness Xtra | 3.6 pt/a | | A | 0 | 99 | 96 | 100 | 100 | 100 | 53.3 |
| 16 | Impact | 0.75 fl oz/a | | C | | | | | | | |
| 16 | Liberty | 29 fl oz/a | | C | | | | | | | |
| 16 | Atrazine | 0.56 lb/a | | C | | | | | | | |
| 16 | MSO | 1 % v/v | | C | | | | | | | |
| 16 | AMS (Liquid) | 2.5 % v/v | | C | | | | | | | |
| 17 | Acuron Flexi | 1.25 qt/a | | A | 0 | 100 | 97 | 100 | 100 | 100 | 53.8 |
| 17 | Roundup PowerMax | 32 fl oz/a | | C | | | | | | | |
| 17 | AMS | 8.5 lb/100 gal | | C | | | | | | | |
| 18 | Acuron | 1.5 qt/a | | A | 0 | 99 | 100 | 100 | 100 | 100 | 53.3 |
| 18 | Roundup PowerMax | 32 fl oz/a | | C | | | | | | | |
| 18 | AMS | 8.5 lb/100 gal | | C | | | | | | | |
| 19 | Verdict | 16 fl oz/a | | A | 0 | 100 | 100 | 100 | 100 | 100 | 53.7 |
| 19 | Roundup PowerMax | 32 fl oz/a | | C | | | | | | | |
| 19 | AMS | 8.5 lb/100 gal | | C | | | | | | | |
| 20 | Verdict | 16 fl oz/a | | A | 0 | 98 | 95 | 99 | 100 | 100 | 53.3 |
| 20 | Atrazine | 1.1 lb/a | | A | | | | | | | |
| 20 | Roundup PowerMax | 32 fl oz/a | | C | | | | | | | |
| 20 | AMS | 8.5 lb/100 gal | | C | | | | | | | |
| 21 | Zidua | 3.3 fl oz/a | | A | 0 | 100 | 100 | 100 | 100 | 100 | 53.8 |
| 21 | Sharpen | 2 fl oz/a | | A | | | | | | | |
| 21 | Atrazine | 1.1 lb/a | | A | | | | | | | |
| 21 | Roundup PowerMax | 32 fl oz/a | | C | | | | | | | |
| 21 | AMS | 8.5 lb/100 gal | | C | | | | | | | |

Commercial programs for weed control in corn

Trial ID: C01-16

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

| | | | | | | | |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Pest Code | | ANGR | CHEAL | AMAPO | AMBEL | ABUTH | |
| Crop Code | ZEAMX | | | | | | ZEAMX |
| Rating Date | Jul-11-2016 | Jul-11-2016 | Jul-11-2016 | Jul-11-2016 | Jul-11-2016 | Jul-11-2016 | Oct-19-2016 |
| Rating Type | injury | control | control | control | control | control | test wieght |
| Rating Unit | percent | percent | percent | percent | percent | percent | lbs/bu |
| Trt-Eval Interval | 28 DA-C | 28 DA-C | 28 DA-C | 28 DA-C | 28 DA-C | 28 DA-C | 154 DA-A |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

| Trt No. | Treatment Name | Rate Unit | Appl Code | | | | | | | |
|---------|--------------------|-------------|-----------|-----|------|-------|------|-------|------|------|
| 31 | Anthem MAXX | 3.5 fl oz/a | A | 0 | 100 | 100 | 100 | 100 | 100 | 53.3 |
| 31 | Atrazine | 1.1 lb/a | A | | | | | | | |
| 31 | Solstice | 2.5 oz/a | C | | | | | | | |
| 31 | Atrazine | 0.56 lb/a | C | | | | | | | |
| 31 | Roundup PowerMax | 32 fl oz/a | C | | | | | | | |
| 31 | AMS | 2.5 lb/a | C | | | | | | | |
| 32 | Weed-free | | | 0 | 100 | 98 | 100 | 100 | 100 | 53.6 |
| | LSD P=.05 | | | . | 12.6 | 12.9 | 5.5 | 15.8 | 10.1 | 0.78 |
| | Standard Deviation | | | 0.0 | 9.0 | 9.2 | 3.9 | 11.3 | 7.2 | 0.56 |
| | CV | | | 0.0 | 9.63 | 10.26 | 4.12 | 12.19 | 7.74 | 1.04 |

Commercial programs for weed control in corn

Trial ID: C01-16

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

| | | | |
|--------------------|--|-------------|-------------|
| Pest Code | | | |
| Crop Code | | ZEAMX | ZEAMX |
| Rating Date | | Oct-19-2016 | Oct-19-2016 |
| Rating Type | | moisture | yield |
| Rating Unit | | percent | bu/acre |
| Trt-Eval Interval | | 154 DA-A | at 15% M |
| Number of Decimals | | 1 | 0 |

| Trt No. | Treatment Name | Rate Unit | Appl Code | | |
|---------|------------------|----------------|-----------|------|-----|
| 1 | Balance Flexx | 4 fl oz/a | A | 19.1 | 246 |
| 1 | Harness Xtra | 3.6 pt/a | A | | |
| 2 | Corvus | 3.3 fl oz/a | A | 19.3 | 244 |
| 2 | Harness Xtra | 3 pt/a | A | | |
| 3 | Keystone NXT | 2.4 qt/a | A | 18.8 | 243 |
| 3 | Hornet | 3 oz/a | A | | |
| 4 | Resicore | 2.75 qt/a | A | 19.1 | 247 |
| 5 | Resicore | 2 qt/a | A | 19.5 | 236 |
| 5 | Keystone NXT | 1 qt/a | A | | |
| 6 | Capreno | 3 fl oz/a | B | 19.0 | 234 |
| 6 | Roundup PowerMax | 22 fl oz/a | B | | |
| 6 | AMS | 8.5 lb/100 gal | B | | |
| 7 | Harness Xtra | 3.6 pt/a | B | 18.9 | 241 |
| 7 | Impact | 1 fl oz/a | B | | |
| 7 | MSO | 0.25 % v/v | B | | |
| 7 | AMS (Liquid) | 2.5 % v/v | B | | |
| 8 | Armezon PRO | 16 fl oz/a | B | 18.8 | 250 |
| 8 | Roundup PowerMax | 16 fl oz/a | B | | |
| 8 | Atrazine | 1.1 lb/a | B | | |
| 8 | Surfactant | 0.25 % v/v | B | | |
| 8 | AMS | 8.5 lb/100 gal | B | | |
| 9 | Resicore | 1.25 qt/a | B | 18.7 | 245 |
| 9 | Durango DMA | 32 fl oz/a | B | | |
| 9 | AMS (Liquid) | 2.5 % v/v | B | | |
| 10 | Degree Xtra | 1 qt/a | B | 19.3 | 241 |
| 10 | Impact | 0.5 fl oz/a | B | | |
| 10 | Roundup PowerMax | 22 fl oz/a | B | | |
| 10 | AMS | 17 lb/100 gal | B | | |
| 11 | Warrant | 3 pt/a | B | 19.2 | 250 |
| 11 | Atrazine | 0.56 lb/a | B | | |
| 11 | Roundup PowerMax | 22 fl oz/a | B | | |
| 11 | AMS | 17 lb/100 gal | B | | |
| 11 | Roundup PowerMax | 22 fl oz/a | D | | |
| 11 | AMS | 17 lb/100 gal | D | | |

Commercial programs for weed control in corn**Trial ID: C01-16****Location: Campus T-17****Investigator: Christy Sprague****Study Director: Sprague, Powell, Stiles**

| | | | |
|--------------------|--|-------------|-------------|
| Pest Code | | | |
| Crop Code | | ZEAMX | ZEAMX |
| Rating Date | | Oct-19-2016 | Oct-19-2016 |
| Rating Type | | moisture | yield |
| Rating Unit | | percent | bu/acre |
| Trt-Eval Interval | | 154 DA-A | at 15% M |
| Number of Decimals | | 1 | 0 |

| Trt No. | Treatment Name | Rate | Rate Unit | Appl Code | | |
|---------|------------------|----------------|-----------|-----------|------|-----|
| 12 | Untreated | | | | 19.8 | 162 |
| 13 | Cinch ATZ | 1 qt/a | | A | 19.1 | 246 |
| 13 | Revulin Q | 3.4 oz/a | | B | | |
| 13 | Surfactant | 0.25 % v/v | | B | | |
| 13 | AMS | 2 lb/a | | B | | |
| 14 | Cinch ATZ | 1 qt/a | | A | 19.0 | 245 |
| 14 | Resolve Q | 1.25 oz/a | | B | | |
| 14 | Status | 5 oz/a | | B | | |
| 14 | Surfactant | 0.25 % v/v | | B | | |
| 14 | AMS | 2 lb/a | | B | | |
| 15 | Harness Xtra | 3.6 pt/a | | A | 18.7 | 243 |
| 15 | Impact | 0.75 fl oz/a | | C | | |
| 15 | Atrazine | 0.56 lb/a | | C | | |
| 15 | MSO | 1 % v/v | | C | | |
| 15 | AMS (Liquid) | 2.5 % v/v | | C | | |
| 16 | Harness Xtra | 3.6 pt/a | | A | 19.2 | 245 |
| 16 | Impact | 0.75 fl oz/a | | C | | |
| 16 | Liberty | 29 fl oz/a | | C | | |
| 16 | Atrazine | 0.56 lb/a | | C | | |
| 16 | MSO | 1 % v/v | | C | | |
| 16 | AMS (Liquid) | 2.5 % v/v | | C | | |
| 17 | Acuron Flexi | 1.25 qt/a | | A | 18.8 | 248 |
| 17 | Roundup PowerMax | 32 fl oz/a | | C | | |
| 17 | AMS | 8.5 lb/100 gal | | C | | |
| 18 | Acuron | 1.5 qt/a | | A | 18.9 | 252 |
| 18 | Roundup PowerMax | 32 fl oz/a | | C | | |
| 18 | AMS | 8.5 lb/100 gal | | C | | |
| 19 | Verdict | 16 fl oz/a | | A | 19.1 | 244 |
| 19 | Roundup PowerMax | 32 fl oz/a | | C | | |
| 19 | AMS | 8.5 lb/100 gal | | C | | |
| 20 | Verdict | 16 fl oz/a | | A | 18.8 | 247 |
| 20 | Atrazine | 1.1 lb/a | | A | | |
| 20 | Roundup PowerMax | 32 fl oz/a | | C | | |
| 20 | AMS | 8.5 lb/100 gal | | C | | |
| 21 | Zidua | 3.3 fl oz/a | | A | 18.9 | 247 |
| 21 | Sharpen | 2 fl oz/a | | A | | |
| 21 | Atrazine | 1.1 lb/a | | A | | |
| 21 | Roundup PowerMax | 32 fl oz/a | | C | | |
| 21 | AMS | 8.5 lb/100 gal | | C | | |

Commercial programs for weed control in corn

Trial ID: C01-16

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

| | | | |
|--------------------|--|-------------|-------------|
| Pest Code | | | |
| Crop Code | | ZEAMX | ZEAMX |
| Rating Date | | Oct-19-2016 | Oct-19-2016 |
| Rating Type | | moisture | yield |
| Rating Unit | | percent | bu/acre |
| Trt-Eval Interval | | 154 DA-A | at 15% M |
| Number of Decimals | | 1 | 0 |

| Trt No. | Treatment Name | Rate | Rate Unit | Appl Code | | |
|---------|------------------|----------------|-----------|-----------|------|-----|
| 22 | TripleFLEX II | 2 pt/a | | A | 18.7 | 245 |
| 22 | Degree Xtra | 1.5 qt/a | | A | | |
| 22 | Roundup PowerMax | 22 fl oz/a | | C | | |
| 22 | AMS | 17 lb/100 gal | | C | | |
| 23 | Cinch ATZ | 2 qt/a | | A | 18.7 | 246 |
| 23 | Instigate | 5.25 oz/a | | A | | |
| 23 | Abundit Extra | 1 qt/a | | C | | |
| 23 | AMS | 2 lb/a | | C | | |
| 24 | Instigate | 5.25 oz/a | | A | 19.0 | 238 |
| 24 | Atrazine | 1.1 lb/a | | C | | |
| 24 | Abundit Extra | 1 qt/a | | C | | |
| 24 | AMS | 2 lb/a | | C | | |
| 25 | Harness Xtra | 3.6 pt/a | | A | 19.0 | 240 |
| 25 | Impact | 0.75 fl oz/a | | C | | |
| 25 | Roundup PowerMax | 32 fl oz/a | | C | | |
| 25 | Atrazine | 0.56 lb/a | | C | | |
| 25 | MSO | 0.5 % v/v | | C | | |
| 25 | AMS (Liquid) | 2.5 % v/v | | C | | |
| 26 | Balance Flexx | 4 fl oz/a | | A | 18.5 | 241 |
| 26 | Roundup PowerMax | 22 fl oz/a | | C | | |
| 26 | DiFlexx Duo | 24 fl oz/a | | C | | |
| 26 | AMS | 8.5 lb/100 gal | | C | | |
| 27 | Degree Xtra | 2 qt/a | | A | 18.7 | 240 |
| 27 | Status | 2 oz/a | | C | | |
| 27 | Roundup PowerMax | 22 fl oz/a | | C | | |
| 27 | AMS | 17 lb/100 gal | | C | | |
| 28 | Acuron Flexi | 1.25 qt/a | | A | 19.0 | 241 |
| 28 | Halex GT | 3.6 pt/a | | C | | |
| 28 | Surfactant | 0.5 % v/v | | C | | |
| 28 | AMS | 8.5 lb/100 gal | | C | | |
| 29 | Acuron | 1.5 qt/a | | A | 18.7 | 241 |
| 29 | Halex GT | 3.6 pt/a | | C | | |
| 29 | Surfactant | 0.5 % v/v | | C | | |
| 29 | AMS | 8.5 lb/100 gal | | C | | |
| 30 | Anthem MAXX | 3.5 fl oz/a | | A | 19.2 | 241 |
| 30 | Simazine | 1.1 lb/a | | A | | |
| 30 | Atrazine | 1.5 lb/a | | C | | |
| 30 | Roundup PowerMax | 32 fl oz/a | | C | | |
| 30 | AMS | 2.5 lb/a | | C | | |

Commercial programs for weed control in corn**Trial ID: C01-16****Location: Campus T-17****Investigator: Christy Sprague****Study Director: Sprague, Powell, Stiles**

| | | | |
|--------------------|--|-------------|-------------|
| Pest Code | | | |
| Crop Code | | ZEAMX | ZEAMX |
| Rating Date | | Oct-19-2016 | Oct-19-2016 |
| Rating Type | | moisture | yield |
| Rating Unit | | percent | bu/acre |
| Trt-Eval Interval | | 154 DA-A | at 15% M |
| Number of Decimals | | 1 | 0 |

| Trt No. | Treatment Name | Rate Unit | Appl Code | | |
|---------|--------------------|-------------|-----------|------|------|
| 31 | Anthem MAXX | 3.5 fl oz/a | A | 18.8 | 246 |
| 31 | Atrazine | 1.1 lb/a | A | | |
| 31 | Solstice | 2.5 oz/a | C | | |
| 31 | Atrazine | 0.56 lb/a | C | | |
| 31 | Roundup PowerMax | 32 fl oz/a | C | | |
| 31 | AMS | 2.5 lb/a | C | | |
| 32 | Weed-free | | | 19.0 | 243 |
| | LSD P=.05 | | | 0.60 | 15.5 |
| | Standard Deviation | | | 0.43 | 11.1 |
| | CV | | | 2.24 | 4.58 |