

Residual herbicide tank-mixtures with Liberty for one-pass (EPOS) programs in corn

Trial ID: C06-16 Study Dir.: Sprague, Powell, Stiles
 Conducted: Campus T-17 Investigator: Christy Sprague

Planting Date: May-18-2016 **Row Spacing:** 30 IN
Variety: DKC49-72 **No. of Reps:** 3
Population: 32000 seeds/A **% OM:** 2.8
Soil Type: L loam **pH:** 6.2
Plot Size: 10 X 30 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

Application Timing: A EPOS
Date Treated: Jun-9-2016
Time Treated: 8:30 AM
% Cloud Cover: 20
Air Temp., Unit: 57 F
% Relative Humidity: 55
Wind Speed/Unit/Dir: 0 mph
Soil Temp, Unit: 62 F
Leaf Moist/Dew Presence (Y/N): 5
Soil Moist: 4

Crop Stage at Each Application

A
Crop 1 Name: ZEAMX
Height: 12 "
Stage: V4

Weed Stage at Each Application

A
Weed 1 Name: ANGR
Height: 3 "
Stage: 4L
Weed 2 Name: CHEAL
Height: 1-3 " (2)
Stage: 2L
Weed 3 Name: AMAPO
Height: 2 "
Stage: 2L
Weed 4 Name: AMBEL
Height: 3 "
Stage: 2L
Weed 5 Name: ABUTH
Height: 3 "
Stage: 2L

Application Equipment

| 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 |

Comments:

Residual herbicide tank-mixtures with Liberty for one-pass (EPOS) programs in corn

Trial ID: C06-16

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 | Jun-16-2016 | Jun-16-2016 | Jun-16-2016 | Jun-16-2016 | Jun-16-2016 | Jun-16-2016 | Jun-23-2016 | |
| Rating Type | injury | control | control | control | control | control | injury | |
| Rating Unit | percent | percent | percent | percent | percent | percent | percent | percent |
| Trt-Eval Interval | 7 DA-A | 7 DA-A | 7 DA-A | 7 DA-A | 7 DA-A | 7 DA-A | 14 DA-A | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Rate | Unit | Appl Code | | | | | | | |
|---------|----------------|----------------|------|-----------|---|-----|-----|-----|-----|-----|---|
| 1 | Liberty | 29 fl oz/a | A | | 0 | 99 | 100 | 100 | 100 | 100 | 0 |
| 1 | Atrazine | 0.56 lb/a | A | | | | | | | | |
| 1 | AMS | 8.5 lb/100 gal | A | | | | | | | | |
| 2 | Liberty | 29 fl oz/a | A | | 0 | 100 | 99 | 100 | 98 | 97 | 0 |
| 2 | Outlook | 14 fl oz/a | A | | | | | | | | |
| 2 | Atrazine | 0.56 lb/a | A | | | | | | | | |
| 2 | AMS | 8.5 lb/100 gal | A | | | | | | | | |
| 3 | Liberty | 29 fl oz/a | A | | 0 | 99 | 100 | 100 | 100 | 97 | 0 |
| 3 | Warrant | 3 pt/a | A | | | | | | | | |
| 3 | Atrazine | 0.56 lb/a | A | | | | | | | | |
| 3 | AMS | 8.5 lb/100 gal | A | | | | | | | | |
| 4 | Liberty | 29 fl oz/a | A | | 0 | 100 | 100 | 100 | 97 | 88 | 0 |
| 4 | Cadou | 13.69 fl oz/a | A | | | | | | | | |
| 4 | Atrazine | 0.56 lb/a | A | | | | | | | | |
| 4 | AMS | 8.5 lb/100 gal | A | | | | | | | | |
| 5 | Untreated | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | Liberty | 22 fl oz/a | A | | 0 | 99 | 100 | 100 | 100 | 100 | 0 |
| 6 | Atrazine | 0.56 lb/a | A | | | | | | | | |
| 6 | AMS | 8.5 lb/100 gal | A | | | | | | | | |
| 7 | Laudis | 2.5 fl oz/a | A | | 0 | 100 | 100 | 100 | 100 | 95 | 0 |
| 7 | Atrazine | 0.56 lb/a | A | | | | | | | | |
| 7 | MSO | 1 % v/v | A | | | | | | | | |
| 7 | AMS | 8.5 lb/100 gal | A | | | | | | | | |
| 8 | Liberty | 22 fl oz/a | A | | 0 | 99 | 100 | 100 | 100 | 100 | 0 |
| 8 | Laudis | 2.5 fl oz/a | A | | | | | | | | |
| 8 | Outlook | 14 fl oz/a | A | | | | | | | | |
| 8 | Atrazine | 0.56 lb/a | A | | | | | | | | |
| 8 | AMS | 8.5 lb/100 gal | A | | | | | | | | |
| 9 | Liberty | 22 fl oz/a | A | | 0 | 99 | 99 | 100 | 100 | 100 | 0 |
| 9 | Laudis | 2.5 fl oz/a | A | | | | | | | | |
| 9 | Warrant | 3 pt/a | A | | | | | | | | |
| 9 | Atrazine | 0.56 lb/a | A | | | | | | | | |
| 9 | AMS | 8.5 lb/100 gal | A | | | | | | | | |

Missing data estimates are included in columns: Average=25,26,27

Could not calculate LSD (% mean diff) for columns 1,4,7,10,13,16,19,22 because error mean square = 0.

Residual herbicide tank-mixtures with Liberty for one-pass (EPOS) programs in corn

Trial ID: C06-16

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 | Jun-16-2016 | Jun-16-2016 | Jun-16-2016 | Jun-16-2016 | Jun-16-2016 | Jun-16-2016 | Jun-23-2016 | |
| Rating Type | injury | control | control | control | control | control | control | injury |
| Rating Unit | percent | percent | percent | percent | percent | percent | percent | percent |
| Trt-Eval Interval | 7 DA-A | 7 DA-A | 7 DA-A | 7 DA-A | 7 DA-A | 7 DA-A | 7 DA-A | 14 DA-A |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Rate | Unit | Appl Code | | | | | | | |
|--------------------|----------------|----------------|------|-----------|-----|------|------|-----|------|------|-----|
| 10 | Liberty | 22 fl oz/a | A | | 0 | 100 | 100 | 100 | 99 | 97 | 0 |
| 10 | Laudis | 2.5 fl oz/a | A | | | | | | | | |
| 10 | Cadou | 13.69 fl oz/a | A | | | | | | | | |
| 10 | Atrazine | 0.56 lb/a | A | | | | | | | | |
| 10 | AMS | 8.5 lb/100 gal | A | | | | | | | | |
| 11 | Laudis | 3 fl oz/a | A | | 0 | 98 | 100 | 100 | 100 | 100 | 0 |
| 11 | Atrazine | 0.56 lb/a | A | | | | | | | | |
| 11 | MSO | 1 % v/v | A | | | | | | | | |
| 11 | AMS | 8.5 lb/100 gal | A | | | | | | | | |
| 12 | Liberty | 22 fl oz/a | A | | 0 | 100 | 100 | 100 | 100 | 93 | 0 |
| 12 | Laudis | 3 fl oz/a | A | | | | | | | | |
| 12 | Outlook | 14 fl oz/a | A | | | | | | | | |
| 12 | Atrazine | 0.56 lb/a | A | | | | | | | | |
| 12 | AMS | 8.5 lb/100 gal | A | | | | | | | | |
| 13 | Liberty | 22 fl oz/a | A | | 0 | 99 | 100 | 100 | 98 | 100 | 0 |
| 13 | Laudis | 3 fl oz/a | A | | | | | | | | |
| 13 | Warrant | 3 pt/a | A | | | | | | | | |
| 13 | Atrazine | 0.56 lb/a | A | | | | | | | | |
| 13 | AMS | 8.5 lb/100 gal | A | | | | | | | | |
| 14 | Liberty | 22 fl oz/a | A | | 0 | 99 | 100 | 100 | 100 | 90 | 0 |
| 14 | Laudis | 3 fl oz/a | A | | | | | | | | |
| 14 | Cadou | 13.69 fl oz/a | A | | | | | | | | |
| 14 | Atrazine | 0.56 lb/a | A | | | | | | | | |
| 14 | AMS | 8.5 lb/100 gal | A | | | | | | | | |
| 15 | Armezon PRO | 16 fl oz/a | A | | 0 | 95 | 100 | 100 | 92 | 94 | 0 |
| 15 | Atrazine | 0.56 lb/a | A | | | | | | | | |
| 15 | Surfactant | 0.25 % v/v | A | | | | | | | | |
| 15 | AMS | 8.5 lb/100 gal | A | | | | | | | | |
| LSD P=.05 | | | | | . | 2.8 | 0.7 | . | 4.8 | 6.6 | . |
| Standard Deviation | | | | | 0.0 | 1.7 | 0.4 | 0.0 | 2.9 | 3.9 | 0.0 |
| CV | | | | | 0.0 | 1.79 | 0.46 | 0.0 | 3.12 | 4.38 | 0.0 |

Residual herbicide tank-mixtures with Liberty for one-pass (EPOS) programs in corn

Trial ID: C06-16

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

| | | | | | | | |
|--------------------|-------------|-------------|-------------|-------------|-------------|------------|------------|
| Pest Code | ANGR | CHEAL | AMAPO | AMBEL | ABUTH | | ANGR |
| Crop Code | | | | | | ZEAMX | |
| Rating Date | Jun-23-2016 | Jun-23-2016 | Jun-23-2016 | Jun-23-2016 | Jun-23-2016 | Jul-7-2016 | Jul-7-2016 |
| Rating Type | control | control | control | control | control | injury | control |
| Rating Unit | percent | percent | percent | percent | percent | percent | percent |
| Trt-Eval Interval | 14 DA-A | 14 DA-A | 14 DA-A | 14 DA-A | 14 DA-A | 28 DA-A | 28 DA-A |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Rate | Unit | Appl Code | | | | | | | |
|---------|----------------|----------------|------|-----------|-----|-----|-----|-----|-----|---|-----|
| 1 | Liberty | 29 fl oz/a | | A | 99 | 100 | 100 | 100 | 100 | 0 | 100 |
| 1 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 1 | AMS | 8.5 lb/100 gal | | A | | | | | | | |
| 2 | Liberty | 29 fl oz/a | | A | 100 | 99 | 100 | 100 | 98 | 0 | 99 |
| 2 | Outlook | 14 fl oz/a | | A | | | | | | | |
| 2 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 2 | AMS | 8.5 lb/100 gal | | A | | | | | | | |
| 3 | Liberty | 29 fl oz/a | | A | 97 | 100 | 100 | 100 | 95 | 0 | 94 |
| 3 | Warrant | 3 pt/a | | A | | | | | | | |
| 3 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 3 | AMS | 8.5 lb/100 gal | | A | | | | | | | |
| 4 | Liberty | 29 fl oz/a | | A | 100 | 100 | 100 | 100 | 97 | 0 | 100 |
| 4 | Cadou | 13.69 fl oz/a | | A | | | | | | | |
| 4 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 4 | AMS | 8.5 lb/100 gal | | A | | | | | | | |
| 5 | Untreated | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | Liberty | 22 fl oz/a | | A | 100 | 97 | 100 | 100 | 100 | 0 | 100 |
| 6 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 6 | AMS | 8.5 lb/100 gal | | A | | | | | | | |
| 7 | Laudis | 2.5 fl oz/a | | A | 100 | 100 | 100 | 100 | 100 | 0 | 98 |
| 7 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 7 | MSO | 1 % v/v | | A | | | | | | | |
| 7 | AMS | 8.5 lb/100 gal | | A | | | | | | | |
| 8 | Liberty | 22 fl oz/a | | A | 100 | 100 | 100 | 100 | 95 | 0 | 100 |
| 8 | Laudis | 2.5 fl oz/a | | A | | | | | | | |
| 8 | Outlook | 14 fl oz/a | | A | | | | | | | |
| 8 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 8 | AMS | 8.5 lb/100 gal | | A | | | | | | | |
| 9 | Liberty | 22 fl oz/a | | A | 98 | 100 | 100 | 100 | 100 | 0 | 99 |
| 9 | Laudis | 2.5 fl oz/a | | A | | | | | | | |
| 9 | Warrant | 3 pt/a | | A | | | | | | | |
| 9 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 9 | AMS | 8.5 lb/100 gal | | A | | | | | | | |

Residual herbicide tank-mixtures with Liberty for one-pass (EPOS) programs in corn

Trial ID: C06-16

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

| | | | | | | | |
|--------------------|-------------|-------------|-------------|-------------|-------------|------------|------------|
| Pest Code | ANGR | CHEAL | AMAPO | AMBEL | ABUTH | | ANGR |
| Crop Code | | | | | | ZEAMX | |
| Rating Date | Jun-23-2016 | Jun-23-2016 | Jun-23-2016 | Jun-23-2016 | Jun-23-2016 | Jul-7-2016 | Jul-7-2016 |
| Rating Type | control | control | control | control | control | injury | control |
| Rating Unit | percent | percent | percent | percent | percent | percent | percent |
| Trt-Eval Interval | 14 DA-A | 14 DA-A | 14 DA-A | 14 DA-A | 14 DA-A | 28 DA-A | 28 DA-A |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Rate | Unit | Appl Code | | | | | | | |
|--------------------|----------------|----------------|------|-----------|-----|------|-----|------|------|-----|------|
| 10 | Liberty | 22 fl oz/a | | A | 100 | 100 | 100 | 98 | 97 | 0 | 100 |
| 10 | Laudis | 2.5 fl oz/a | | A | | | | | | | |
| 10 | Cadou | 13.69 fl oz/a | | A | | | | | | | |
| 10 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 10 | AMS | 8.5 lb/100 gal | | A | | | | | | | |
| 11 | Laudis | 3 fl oz/a | | A | 98 | 100 | 100 | 100 | 95 | 0 | 93 |
| 11 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 11 | MSO | 1 % v/v | | A | | | | | | | |
| 11 | AMS | 8.5 lb/100 gal | | A | | | | | | | |
| 12 | Liberty | 22 fl oz/a | | A | 100 | 100 | 100 | 100 | 100 | 0 | 100 |
| 12 | Laudis | 3 fl oz/a | | A | | | | | | | |
| 12 | Outlook | 14 fl oz/a | | A | | | | | | | |
| 12 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 12 | AMS | 8.5 lb/100 gal | | A | | | | | | | |
| 13 | Liberty | 22 fl oz/a | | A | 100 | 100 | 100 | 100 | 100 | 0 | 100 |
| 13 | Laudis | 3 fl oz/a | | A | | | | | | | |
| 13 | Warrant | 3 pt/a | | A | | | | | | | |
| 13 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 13 | AMS | 8.5 lb/100 gal | | A | | | | | | | |
| 14 | Liberty | 22 fl oz/a | | A | 99 | 100 | 100 | 100 | 98 | 0 | 100 |
| 14 | Laudis | 3 fl oz/a | | A | | | | | | | |
| 14 | Cadou | 13.69 fl oz/a | | A | | | | | | | |
| 14 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 14 | AMS | 8.5 lb/100 gal | | A | | | | | | | |
| 15 | Armezon PRO | 16 fl oz/a | | A | 99 | 100 | 100 | 97 | 98 | 0 | 99 |
| 15 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 15 | Surfactant | 0.25 % v/v | | A | | | | | | | |
| 15 | AMS | 8.5 lb/100 gal | | A | | | | | | | |
| LSD P=.05 | | | | | 3.3 | 2.6 | . | 2.8 | 7.2 | . | 6.3 |
| Standard Deviation | | | | | 1.9 | 1.5 | 0.0 | 1.7 | 4.3 | 0.0 | 3.8 |
| CV | | | | | 2.1 | 1.64 | 0.0 | 1.82 | 4.72 | 0.0 | 4.09 |

Residual herbicide tank-mixtures with Liberty for one-pass (EPOS) programs in corn

Trial ID: C06-16

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

| | | | | | | | |
|--------------------|------------|------------|------------|------------|-------------|-------------|-------------|
| Pest Code | CHEAL | AMAPO | AMBEL | ABUTH | | ANGR | CHEAL |
| Crop Code | | | | | ZEAMX | | |
| Rating Date | Jul-7-2016 | Jul-7-2016 | Jul-7-2016 | Jul-7-2016 | Jul-21-2016 | Jul-21-2016 | Jul-21-2016 |
| Rating Type | control | control | control | control | injury | control | control |
| Rating Unit | percent | percent | percent | percent | percent | percent | percent |
| Trt-Eval Interval | 28 DA-A | 28 DA-A | 28 DA-A | 28 DA-A | 42 DA-A | 42 DA-A | 42 DA-A |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Rate | Unit | Appl Code | | | | | | | |
|---------|----------------|----------------|------|-----------|-----|-----|-----|-----|---|-----|-----|
| 1 | Liberty | 29 fl oz/a | | A | 100 | 100 | 100 | 99 | 0 | 99 | 99 |
| 1 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 1 | AMS | 8.5 lb/100 gal | | A | | | | | | | |
| 2 | Liberty | 29 fl oz/a | | A | 100 | 100 | 100 | 100 | 0 | 99 | 99 |
| 2 | Outlook | 14 fl oz/a | | A | | | | | | | |
| 2 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 2 | AMS | 8.5 lb/100 gal | | A | | | | | | | |
| 3 | Liberty | 29 fl oz/a | | A | 100 | 100 | 99 | 100 | 0 | 97 | 100 |
| 3 | Warrant | 3 pt/a | | A | | | | | | | |
| 3 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 3 | AMS | 8.5 lb/100 gal | | A | | | | | | | |
| 4 | Liberty | 29 fl oz/a | | A | 100 | 100 | 100 | 100 | 0 | 100 | 100 |
| 4 | Cadou | 13.69 fl oz/a | | A | | | | | | | |
| 4 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 4 | AMS | 8.5 lb/100 gal | | A | | | | | | | |
| 5 | Untreated | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | Liberty | 22 fl oz/a | | A | 100 | 100 | 100 | 100 | 0 | 100 | 100 |
| 6 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 6 | AMS | 8.5 lb/100 gal | | A | | | | | | | |
| 7 | Laudis | 2.5 fl oz/a | | A | 100 | 100 | 98 | 98 | 0 | 98 | 100 |
| 7 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 7 | MSO | 1 % v/v | | A | | | | | | | |
| 7 | AMS | 8.5 lb/100 gal | | A | | | | | | | |
| 8 | Liberty | 22 fl oz/a | | A | 100 | 100 | 100 | 96 | 0 | 99 | 100 |
| 8 | Laudis | 2.5 fl oz/a | | A | | | | | | | |
| 8 | Outlook | 14 fl oz/a | | A | | | | | | | |
| 8 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 8 | AMS | 8.5 lb/100 gal | | A | | | | | | | |
| 9 | Liberty | 22 fl oz/a | | A | 100 | 100 | 100 | 100 | 0 | 100 | 100 |
| 9 | Laudis | 2.5 fl oz/a | | A | | | | | | | |
| 9 | Warrant | 3 pt/a | | A | | | | | | | |
| 9 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 9 | AMS | 8.5 lb/100 gal | | A | | | | | | | |

Residual herbicide tank-mixtures with Liberty for one-pass (EPOS) programs in corn

Trial ID: C06-16

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

| | | | | | | | |
|--------------------|------------|------------|------------|------------|-------------|-------------|-------------|
| Pest Code | CHEAL | AMAPO | AMBEL | ABUTH | | ANGR | CHEAL |
| Crop Code | | | | | ZEAMX | | |
| Rating Date | Jul-7-2016 | Jul-7-2016 | Jul-7-2016 | Jul-7-2016 | Jul-21-2016 | Jul-21-2016 | Jul-21-2016 |
| Rating Type | control | control | control | control | injury | control | control |
| Rating Unit | percent | percent | percent | percent | percent | percent | percent |
| Trt-Eval Interval | 28 DA-A | 28 DA-A | 28 DA-A | 28 DA-A | 42 DA-A | 42 DA-A | 42 DA-A |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Rate | Unit | Appl Code | | | | | | | |
|--------------------|----------------|----------------|------|-----------|------|-----|------|------|-----|------|------|
| 10 | Liberty | 22 fl oz/a | | A | 100 | 100 | 99 | 100 | 0 | 100 | 100 |
| 10 | Laudis | 2.5 fl oz/a | | A | | | | | | | |
| 10 | Cadou | 13.69 fl oz/a | | A | | | | | | | |
| 10 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 10 | AMS | 8.5 lb/100 gal | | A | | | | | | | |
| 11 | Laudis | 3 fl oz/a | | A | 99 | 100 | 100 | 100 | 0 | 96 | 100 |
| 11 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 11 | MSO | 1 % v/v | | A | | | | | | | |
| 11 | AMS | 8.5 lb/100 gal | | A | | | | | | | |
| 12 | Liberty | 22 fl oz/a | | A | 100 | 100 | 99 | 100 | 0 | 100 | 100 |
| 12 | Laudis | 3 fl oz/a | | A | | | | | | | |
| 12 | Outlook | 14 fl oz/a | | A | | | | | | | |
| 12 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 12 | AMS | 8.5 lb/100 gal | | A | | | | | | | |
| 13 | Liberty | 22 fl oz/a | | A | 99 | 100 | 98 | 100 | 0 | 100 | 100 |
| 13 | Laudis | 3 fl oz/a | | A | | | | | | | |
| 13 | Warrant | 3 pt/a | | A | | | | | | | |
| 13 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 13 | AMS | 8.5 lb/100 gal | | A | | | | | | | |
| 14 | Liberty | 22 fl oz/a | | A | 100 | 100 | 100 | 98 | 0 | 99 | 100 |
| 14 | Laudis | 3 fl oz/a | | A | | | | | | | |
| 14 | Cadou | 13.69 fl oz/a | | A | | | | | | | |
| 14 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 14 | AMS | 8.5 lb/100 gal | | A | | | | | | | |
| 15 | Armezon PRO | 16 fl oz/a | | A | 100 | 100 | 100 | 100 | 0 | 98 | 100 |
| 15 | Atrazine | 0.56 lb/a | | A | | | | | | | |
| 15 | Surfactant | 0.25 % v/v | | A | | | | | | | |
| 15 | AMS | 8.5 lb/100 gal | | A | | | | | | | |
| LSD P=.05 | | | | | 0.9 | . | 2.1 | 3.7 | . | 3.8 | 1.1 |
| Standard Deviation | | | | | 0.5 | 0.0 | 1.3 | 2.2 | 0.0 | 2.3 | 0.6 |
| CV | | | | | 0.59 | 0.0 | 1.36 | 2.36 | 0.0 | 2.49 | 0.69 |

Residual herbicide tank-mixtures with Liberty for one-pass (EPOS) programs in corn

Trial ID: C06-16

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

| | | | | | | |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Pest Code | AMAPO | AMBEL | ABUTH | | | |
| Crop Code | | | | ZEAMX | ZEAMX | CORN |
| Rating Date | Jul-21-2016 | Jul-21-2016 | Jul-21-2016 | Oct-24-2016 | Oct-24-2016 | Oct-24-2016 |
| Rating Type | control | control | control | test weight | moisture | yield |
| Rating Unit | percent | percent | percent | lbs/bu | percent | bu/acre |
| Trt-Eval Interval | 42 DA-A | 42 DA-A | 42 DA-A | 137 DA-A | 137 DA-A | at 15% M |
| Number of Decimals | 0 | 0 | 0 | 1 | 1 | 0 |

| Trt No. | Treatment Name | Rate | Unit | Appl Code | | | | | | |
|---------|----------------|----------------|------|-----------|-----|-----|-----|------|------|-----|
| 1 | Liberty | 29 fl oz/a | | A | 100 | 100 | 100 | 54.6 | 18.2 | 260 |
| 1 | Atrazine | 0.56 lb/a | | A | | | | | | |
| 1 | AMS | 8.5 lb/100 gal | | A | | | | | | |
| 2 | Liberty | 29 fl oz/a | | A | 100 | 100 | 100 | 52.9 | 17.1 | 262 |
| 2 | Outlook | 14 fl oz/a | | A | | | | | | |
| 2 | Atrazine | 0.56 lb/a | | A | | | | | | |
| 2 | AMS | 8.5 lb/100 gal | | A | | | | | | |
| 3 | Liberty | 29 fl oz/a | | A | 100 | 100 | 100 | 53.8 | 17.6 | 263 |
| 3 | Warrant | 3 pt/a | | A | | | | | | |
| 3 | Atrazine | 0.56 lb/a | | A | | | | | | |
| 3 | AMS | 8.5 lb/100 gal | | A | | | | | | |
| 4 | Liberty | 29 fl oz/a | | A | 100 | 100 | 100 | 53.5 | 17.1 | 261 |
| 4 | Cadou | 13.69 fl oz/a | | A | | | | | | |
| 4 | Atrazine | 0.56 lb/a | | A | | | | | | |
| 4 | AMS | 8.5 lb/100 gal | | A | | | | | | |
| 5 | Untreated | | | | 0 | 0 | 0 | 52.9 | 17.2 | 203 |
| 6 | Liberty | 22 fl oz/a | | A | 100 | 100 | 100 | 53.6 | 18.1 | 251 |
| 6 | Atrazine | 0.56 lb/a | | A | | | | | | |
| 6 | AMS | 8.5 lb/100 gal | | A | | | | | | |
| 7 | Laudis | 2.5 fl oz/a | | A | 100 | 98 | 100 | 54.0 | 17.6 | 252 |
| 7 | Atrazine | 0.56 lb/a | | A | | | | | | |
| 7 | MSO | 1 % v/v | | A | | | | | | |
| 7 | AMS | 8.5 lb/100 gal | | A | | | | | | |
| 8 | Liberty | 22 fl oz/a | | A | 100 | 100 | 96 | 53.3 | 16.7 | 266 |
| 8 | Laudis | 2.5 fl oz/a | | A | | | | | | |
| 8 | Outlook | 14 fl oz/a | | A | | | | | | |
| 8 | Atrazine | 0.56 lb/a | | A | | | | | | |
| 8 | AMS | 8.5 lb/100 gal | | A | | | | | | |
| 9 | Liberty | 22 fl oz/a | | A | 100 | 100 | 100 | 54.0 | 17.9 | 253 |
| 9 | Laudis | 2.5 fl oz/a | | A | | | | | | |
| 9 | Warrant | 3 pt/a | | A | | | | | | |
| 9 | Atrazine | 0.56 lb/a | | A | | | | | | |
| 9 | AMS | 8.5 lb/100 gal | | A | | | | | | |

Residual herbicide tank-mixtures with Liberty for one-pass (EPOS) programs in corn

Trial ID: C06-16

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

| | | | | | | |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Pest Code | AMAPO | AMBEL | ABUTH | | | |
| Crop Code | | | | ZEAMX | ZEAMX | CORN |
| Rating Date | Jul-21-2016 | Jul-21-2016 | Jul-21-2016 | Oct-24-2016 | Oct-24-2016 | Oct-24-2016 |
| Rating Type | control | control | control | test weight | moisture | yield |
| Rating Unit | percent | percent | percent | lbs/bu | percent | bu/acre |
| Trt-Eval Interval | 42 DA-A | 42 DA-A | 42 DA-A | 137 DA-A | 137 DA-A | at 15% M |
| Number of Decimals | 0 | 0 | 0 | 1 | 1 | 0 |

| Trt No. | Treatment Name | Rate | Unit | Appl Code | | | | | | |
|--------------------|----------------|----------------|------|-----------|-----|------|-----|------|------|------|
| 10 | Liberty | 22 fl oz/a | A | | 100 | 100 | 100 | 53.4 | 16.8 | 258 |
| 10 | Laudis | 2.5 fl oz/a | A | | | | | | | |
| 10 | Cadou | 13.69 fl oz/a | A | | | | | | | |
| 10 | Atrazine | 0.56 lb/a | A | | | | | | | |
| 10 | AMS | 8.5 lb/100 gal | A | | | | | | | |
| 11 | Laudis | 3 fl oz/a | A | | 100 | 100 | 98 | 54.1 | 18.2 | 244 |
| 11 | Atrazine | 0.56 lb/a | A | | | | | | | |
| 11 | MSO | 1 % v/v | A | | | | | | | |
| 11 | AMS | 8.5 lb/100 gal | A | | | | | | | |
| 12 | Liberty | 22 fl oz/a | A | | 100 | 100 | 100 | 52.7 | 17.5 | 260 |
| 12 | Laudis | 3 fl oz/a | A | | | | | | | |
| 12 | Outlook | 14 fl oz/a | A | | | | | | | |
| 12 | Atrazine | 0.56 lb/a | A | | | | | | | |
| 12 | AMS | 8.5 lb/100 gal | A | | | | | | | |
| 13 | Liberty | 22 fl oz/a | A | | 100 | 98 | 100 | 54.2 | 17.5 | 260 |
| 13 | Laudis | 3 fl oz/a | A | | | | | | | |
| 13 | Warrant | 3 pt/a | A | | | | | | | |
| 13 | Atrazine | 0.56 lb/a | A | | | | | | | |
| 13 | AMS | 8.5 lb/100 gal | A | | | | | | | |
| 14 | Liberty | 22 fl oz/a | A | | 100 | 99 | 99 | 53.3 | 17.2 | 258 |
| 14 | Laudis | 3 fl oz/a | A | | | | | | | |
| 14 | Cadou | 13.69 fl oz/a | A | | | | | | | |
| 14 | Atrazine | 0.56 lb/a | A | | | | | | | |
| 14 | AMS | 8.5 lb/100 gal | A | | | | | | | |
| 15 | Armezon PRO | 16 fl oz/a | A | | 100 | 100 | 100 | 53.3 | 17.9 | 247 |
| 15 | Atrazine | 0.56 lb/a | A | | | | | | | |
| 15 | Surfactant | 0.25 % v/v | A | | | | | | | |
| 15 | AMS | 8.5 lb/100 gal | A | | | | | | | |
| LSD P=.05 | | | | | | 1.9 | 3.6 | 1.44 | 1.77 | 19.8 |
| Standard Deviation | | | | | 0.0 | 1.2 | 2.1 | 0.86 | 1.05 | 11.8 |
| CV | | | | | 0.0 | 1.24 | 2.3 | 1.6 | 6.02 | 4.65 |