

Realm Q Evaluation in Corn.

Trial ID: 11-2B-MW90

Location: Belleville Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
 City State Zip Country: Belleville IL 62221 USA
 Trial Status: FINAL Initiation Date: 6-4-11

Objectives: Evaluate weed control and crop response with Realm Q used in one and two pass systems.

Crop 1: ZEAMD Dent corn Variety: DKC 61-21 GENSS Description: RR2/LL
 Planting Method: SEEDED Planting Date: 6-4-11
 Rate, Unit: 28000 S/A Depth, Unit: 1.5 IN
 Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: AMBTR Ambrosia trifida L. ragweed, giant
 Pest 2 Type: W Code: IPOSS morningglory, species
 Pest Description: Mixture of IPOHE and IPOLA
 Pest 3 Type: W Code: ABUTH Abutilon theophrasti Medicus velvetleaf
 Pest 4 Type: W Code: SETFA Setaria faberi Herrm. foxtail, giant
 Pest 5 Type: W Code: PANDI Panicum dichotomiflorum Michx. panicum, fall

Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 28 FT Tillage Type: REDUCED-TILL
 Replications: 4 Study Design: Randomized Complete Block

Prior Crops, Year
 1. GLXMA 2010

Field Prep./Maintenance: N 150 LB/A, P205 50 LB/A, K20 150 LB/A

% OM: 1.6 Texture: SILT LOAM
 pH: 6.8 Soil Name: PIERRON
 CEC: 8 Fert. Level: P1: 77 LB/A, K: 252 LB/A

Application Description

| | A | B | C |
|----------------------------|-----------|------------|------------|
| Application Date: | 6-5-11 | 6-21-11 | 7-11-11 |
| Time of Day: | 18:00 | 10:00 | 9:00 |
| Application Method: | Spray | Spray | Spray |
| Application Timing: | PRE | V2-4 | LPOST |
| Application Placement: | BROSOI | BROFOL | BROFOL |
| Applied By: | LAH | LAH | JRK |
| Air Temperature, Unit: | 87 F | 78 F | 90 F |
| % Relative Humidity: | 52 | 79 | 77 |
| Wind Velocity, Unit: | 3 MPH | 5 MPH | 2 MPH |
| Wind Direction: | S | S | E |
| Dew Presence (Y/N): | N | N | N |
| Soil Temperature, Unit: | 75 F | 77 F | 83 F |
| Soil Moisture: | NORMAL | ABONOR | ABONOR |
| % Cloud Cover: | 0 | 10 | 0 |
| Crop stage at application: | 5-6-11 NA | 21-6-11 V4 | 11-7-11 V7 |
| Height Min, Max (inch): | | 8 10 | 43 53 |

Pest Stage At Each Application

| | 6-5-11 | 6-21-11 | 7-11-11 |
|--------------------------|--------|----------|----------|
| Application Date: | 6-5-11 | 6-21-11 | 7-11-11 |
| Weed Code: | AMBTR | AMBTR | AMBTR |
| Stage Majority (leaves): | NA | 6 | 4 |
| Stage Min, Max: | | coty 8 | 2 4 |
| Height Majority: | | 3 IN | 4 IN |
| Height Min, Max: | | 1 6 | 3 5 |
| Density, Unit: | | 1 FT2 | 0.01 FT2 |
| Weed Code: | IPOSS | IPOSS | IPOSS |
| Stage Majority (leaves): | NA | 4 | 2 |
| Stage Min, Max: | | coty 7 | 2 4 |
| Height Majority: | | 2 IN | 2 IN |
| Height Min, Max: | | 0.5 3 | 1 3 |
| Density, Unit: | | 1 FT2 | 0.01 FT2 |
| Weed Code: | ABUTH | ABUTH | ABUTH |
| Stage Majority (leaves): | NA | coty | |
| Stage Min, Max: | | coty 5 | |
| Height Majority: | | 0.25 IN | |
| Height Min, Max: | | 0.25 0.5 | |
| Density, Unit: | | 0.01 FT2 | |
| Weed Code: | SETFA | SETFA | SETFA |
| Stage Majority (leaves): | NA | 3 | 2 |
| Stage Min, Max: | | 3 8 | 1 3 |
| Height Majority: | | 2 IN | 2 IN |
| Height Min, Max: | | 1 5 | 1 3 |
| Density, Unit: | | 0.3 FT2 | 0.01 FT2 |
| Weed Code: | PANDI | PANDI | PANDI |
| Stage Majority (leaves): | | 4 | 2 |
| Stage Min, Max: | | 3 6 | 1 3 |
| Height Majority: | | 3 IN | 3 IN |
| Height Min, Max: | | 1 5 | 1 3 |
| Density, Unit: | | 0.01 FT2 | 0.01 FT2 |

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Application Equipment

| | | | |
|----------------------------|-------------|-------------|-------------|
| Appl. Equipment: | CO2 sprayer | CO2 sprayer | CO2 sprayer |
| Operating Pressure: | 30 PSI | 30 PSI | 30 PSI |
| Nozzle Type: | Flat fan | Flat fan | Flat fan |
| Nozzle Size: | XR 8002 | XR 8002 | XR 8002 |
| Boom Length, Unit: | 7.5 FT | 7.5 FT | 7.5 FT |
| Spray Volume, Unit: | 15 GPA | 15 GPA | 15 GPA |

Realm Q Evaluation in Corn.

Trial ID: 11-2B-MW90

Location: Belleville Res. Center

| Pest Code | ZEAMD | ZEAMD | ZEAMD | ZEAMD | ZEAMD | ZEAMD | ZEAMD |
|-------------------|----------|----------|----------|---------|---------|---------|---------|
| Crop Code | 10-25-11 | 10-25-11 | 10-25-11 | 6-18-11 | 6-28-11 | 7-5-11 | 7-19-11 |
| Rating Date | Moisture | Test wt. | Yield | Injury | Injury | Injury | Injury |
| Rating Data Type | Percent | lb/bu | bu/A | Percent | Percent | Percent | Percent |
| Rating Unit | | | | 14 DAP | 7 DA-B | 14 DA-B | 28 DA-B |
| Rating Timing | | | | | | | 56 DA-B |
| Trt-Eval Interval | | | | | | | |

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Other Rate | Other Rate Unit | Growth Stage | Appl Code | | | | | | | | |
|---------|-----------------|-----------|-----------|--------|-----------|------------|-----------------|--------------|-----------|---------|---------|-------|-----|-------|-----|-----|-----|
| 1 | REALM Q | | | | | 4 oz/a | | V2-4 | B | 22.9 a | 57.1 c | 78 a | | 6 ab | 0 a | 0 a | 0 a |
| 1 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 1 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 1 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 1 | COC (PRIME OIL) | 100 | SL | 1 | pt/a | 1 | pt/a | V2-4 | B | | | | | | | | |
| 1 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | | | | | |
| 1 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | LPOST | C | | | | | | | | |
| 1 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | LPOST | C | | | | | | | | |
| 2 | REALM Q | | | | | 4 oz/a | | V2-4 | B | 19.9 ab | 58.1 bc | 63 ab | | 6 ab | 0 a | 0 a | 0 a |
| 2 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 2 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 2 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 2 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | V2-4 | B | | | | | | | | |
| 2 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | | | | | |
| 3 | REALM Q | | | | | 4 oz/a | | V2-4 | B | 19.7 ab | 58.4 bc | 55 b | | 6 ab | 0 a | 0 a | 0 a |
| 3 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 3 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 3 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 3 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | V2-4 | B | | | | | | | | |
| 3 | AATREX NINE-O | 90 | WG | 0.5 | lb ai/a | 0.556 | lb/a | V2-4 | B | | | | | | | | |
| 3 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | | | | | |
| 4 | REALM Q | | | | | 4 oz/a | | V2-4 | B | 17.9 b | 59.4 b | 56 b | | 5 abc | 0 a | 0 a | 0 a |
| 4 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 4 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 4 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 4 | AATREX NINE-O | 90 | WG | 0.5 | lb ai/a | 0.556 | lb/a | V2-4 | B | | | | | | | | |
| 4 | COC (PRIME OIL) | 100 | SL | 1 | pt/a | 1 | pt/a | V2-4 | B | | | | | | | | |
| 4 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | | | | | |
| 4 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | LPOST | C | | | | | | | | |
| 4 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | LPOST | C | | | | | | | | |
| 5 | CINCH ATZ | 5.5 | SC | 1.37 | lb ai/a | 1 | qt/a | PRE | A | 19.8 ab | 58.4 bc | 65 ab | 0 a | 7 a | 0 a | 0 a | 0 a |
| 5 | REALM Q | | | | | 4 oz/a | | V2-4 | B | | | | | | | | |
| 5 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 5 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 5 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 5 | COC (PRIME OIL) | 100 | SL | 1 | pt/a | 1 | pt/a | V2-4 | B | | | | | | | | |
| 5 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | | | | | |
| 6 | CINCH ATZ | 5.5 | SC | 1.37 | lb ai/a | 1 | qt/a | PRE | A | 19.6 ab | 58.5 bc | 63 ab | 0 a | 5 abc | 0 a | 0 a | 0 a |
| 6 | REALM Q | | | | | 4 oz/a | | V2-4 | B | | | | | | | | |
| 6 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 6 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 6 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 6 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | V2-4 | B | | | | | | | | |
| 6 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | | | | | |
| 7 | PREQUEL | 45 | WG | | | 1.66 | oz/a | PRE | A | 19.0 ab | 58.8 bc | 65 ab | 0 a | 6 ab | 0 a | 0 a | 0 a |
| 7 | RESOLVE SG | 25 | SG | 0.0156 | lb ai/a | | | PRE | A | | | | | | | | |
| 7 | ISOXAFLUTOLE | 75 | WG | 0.0313 | lb ai/a | | | PRE | A | | | | | | | | |
| 7 | AATREX NINE-O | 90 | WG | 0.5 | lb ai/a | 0.556 | lb/a | PRE | A | | | | | | | | |
| 7 | REALM Q | | | | | 4 oz/a | | V2-4 | B | | | | | | | | |
| 7 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 7 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 7 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 7 | COC (PRIME OIL) | 100 | SL | 1 | pt/a | 1 | pt/a | V2-4 | B | | | | | | | | |
| 7 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | | | | | |
| 8 | PREQUEL | 45 | WG | | | 1.66 | oz/a | PRE | A | 20.2 ab | 58.1 bc | 63 ab | 0 a | 6 ab | 0 a | 0 a | 0 a |
| 8 | RESOLVE SG | 25 | SG | 0.0156 | lb ai/a | | | PRE | A | | | | | | | | |
| 8 | ISOXAFLUTOLE | 75 | WG | 0.0313 | lb ai/a | | | PRE | A | | | | | | | | |
| 8 | REALM Q | | | | | 4 oz/a | | V2-4 | B | | | | | | | | |
| 8 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 8 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 8 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 8 | AATREX NINE-O | 90 | WG | 0.5 | lb ai/a | 0.556 | lb/a | V2-4 | B | | | | | | | | |
| 8 | COC (PRIME OIL) | 100 | SL | 1 | pt/a | 1 | pt/a | V2-4 | B | | | | | | | | |
| 8 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | | | | | |

Realm Q Evaluation in Corn.

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Location: Belleville Res. Center

| Pest Code | Crop Code | Rating Date | Rating Data Type | Rating Unit | Rating Timing | Trt-Eval Interval | ZEAMD 10-25-11 | ZEAMD 10-25-11 | ZEAMD 10-25-11 | ZEAMD 6-18-11 | ZEAMD 6-28-11 | ZEAMD 7-5-11 | ZEAMD 7-19-11 | ZEAMD 8-16-11 |
|-----------|-----------|-------------|------------------|-------------|---------------|-------------------|---------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|--------------------|
| | | | | | | | Moisture Percent | Test wt. lb/bu | Yield bu/A | Injury Percent | Injury Percent | Injury Percent | Injury Percent | Injury Percent |
| | | | | | | | | | | 14 DAP | 23 DA-A 7 DA-B | 30 DA-A 14 DA-B | 8 DA-C 28 DA-B | 36 DA-C 56 DA-B |

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Other Rate | Other Rate Unit | Growth Stage | Appl Code | | | | | | | | |
|-------------------|--------------------|-----------|-----------|--------|-----------|------------|-----------------|--------------|-----------|---------|---------|--------|--------|--------|--------|--------|--------|
| 9 | PREQUEL | 45 | WG | | | 1.66 | oz/a | PRE | A | 20.3 ab | 58.2 bc | 68 ab | 0 a | 7 a | 0 a | 0 a | 0 a |
| 9 | RESOLVE SG | 25 | SG | 0.0156 | lb ai/a | | | PRE | A | | | | | | | | |
| 9 | ISOXAFLUTOLE | 75 | WG | 0.0313 | lb ai/a | | | PRE | A | | | | | | | | |
| 9 | AATREX NINE-O | 90 | WG | 0.5 | lb ai/a | 0.556 | lb/a | PRE | A | | | | | | | | |
| 9 | REALM Q | | | | | | 4 oz/a | V2-4 | B | | | | | | | | |
| 9 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 9 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 9 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 9 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | V2-4 | B | | | | | | | | |
| 9 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | | | | | |
| 10 | PREQUEL | 45 | WG | | | 1.66 | oz/a | PRE | A | 18.3 b | 58.9 bc | 53 b | 0 a | 3 cd | 0 a | 0 a | 0 a |
| 10 | RESOLVE SG | 25 | SG | 0.0156 | lb ai/a | | | PRE | A | | | | | | | | |
| 10 | ISOXAFLUTOLE | 75 | WG | 0.0313 | lb ai/a | | | PRE | A | | | | | | | | |
| 10 | AATREX NINE-O | 90 | WG | 0.5 | lb ai/a | 0.556 | lb/a | PRE | A | | | | | | | | |
| 10 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | V2-4 | B | | | | | | | | |
| 10 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | | | | | |
| 11 | CINCH ATZ | 5.5 | SC | 1.37 | lb ai/a | 1 | qt/a | V2-4 | B | 20.1 ab | 58.2 bc | 62 ab | | 4 bc | 0 a | 0 a | 0 a |
| 11 | REALM Q | | | | | | 4 oz/a | V2-4 | B | | | | | | | | |
| 11 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 11 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 11 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 11 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | LPOST | C | | | | | | | | |
| 11 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | LPOST | C | | | | | | | | |
| 12 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | V2-4 | B | 19.7 ab | 58.5 bc | 62 ab | | 3 cd | 0 a | 0 a | 0 a |
| 12 | NIS (ACTIVATOR 90) | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | V2-4 | B | | | | | | | | |
| 12 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | | | | | |
| 13 | NONTREATED | | | | | | | | | 13.6 c | 61.8 a | 25 c | 0 a | 0 d | 0 a | 0 a | 0 a |
| LSD (P=.05) | | | | | | | | | | 4.00 | 2.20 | 19.1 | 0.0 | 2.8 | 0.0 | 0.0 | 0.0 |
| Replicate F | | | | | | | | | | 9.899 | 7.357 | 5.321 | 0.000 | 2.111 | 0.000 | 0.000 | 0.000 |
| Replicate Prob(F) | | | | | | | | | | 0.0001 | 0.0006 | 0.0039 | 1.0000 | 0.1160 | 1.0000 | 1.0000 | 1.0000 |
| Treatment F | | | | | | | | | | 2.197 | 2.034 | 3.337 | 0.000 | 4.360 | 0.000 | 0.000 | 0.000 |
| Treatment Prob(F) | | | | | | | | | | 0.0341 | 0.0498 | 0.0025 | 1.0000 | 0.0003 | 1.0000 | 1.0000 | 1.0000 |

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

Realm Q Evaluation in Corn.

Trial ID: 11-2B-MW90

Location: Belleville Res. Center

| Pest Code | AMBTR | AMBTR | AMBTR | AMBTR | IPOSS | IPOSS | IPOSS | IPOSS | | | | | | | | | | |
|-------------------|-----------------|-----------|-----------|---------|-----------|------------|-----------------|--------------|-----------|------|-------|--------|-------|-------|------|--------|-------|--|
| Crop Code | 6-21-11 | 7-5-11 | 7-19-11 | 8-16-11 | 6-21-11 | 7-5-11 | 7-19-11 | 8-16-11 | | | | | | | | | | |
| Rating Date | Control | Control | Control | Control | Control | Control | Control | Control | | | | | | | | | | |
| Rating Data Type | Percent | Percent | Percent | Percent | Percent | Percent | Percent | Percent | | | | | | | | | | |
| Rating Unit | 16 DA-A | 30 DA-A | 8 DA-C | 36 DA-C | 16 DA-A | 30 DA-A | 8 DA-C | 36 DA-C | | | | | | | | | | |
| Rating Timing | 0 DA-B | 14 DA-B | 28 DA-B | 56 DA-B | 0 DA-B | 14 DA-B | 28 DA-B | 56 DA-B | | | | | | | | | | |
| Trt-Eval Interval | | | | | | | | | | | | | | | | | | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Other Rate | Other Rate Unit | Growth Stage | Appl Code | | | | | | | | | |
| 1 | REALM Q | | | | | 4 oz/a | | V2-4 | B | | 95 b | 99 a | 99 a | | 94 b | 96 abc | 98 a | |
| 1 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | | | | | | |
| 1 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | | | | | | |
| 1 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | | | | | | |
| 1 | COC (PRIME OIL) | 100 | SL | 1 | pt/a | | | V2-4 | B | | | | | | | | | |
| 1 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | | | | | | |
| 1 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | LPOST | C | | | | | | | | | |
| 1 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | LPOST | C | | | | | | | | | |
| 2 | REALM Q | | | | | 4 oz/a | | V2-4 | B | | 97 ab | 95 bc | 97 ab | | 97 a | 94 c | 96 b | |
| 2 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | | | | | | |
| 2 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | | | | | | |
| 2 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | | | | | | |
| 2 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | V2-4 | B | | | | | | | | | |
| 2 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | | | | | | |
| 3 | REALM Q | | | | | 4 oz/a | | V2-4 | B | | 98 a | 98 a | 98 ab | | 98 a | 96 abc | 99 a | |
| 3 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | | | | | | |
| 3 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | | | | | | |
| 3 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | | | | | | |
| 3 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | V2-4 | B | | | | | | | | | |
| 3 | AATREX NINE-O | 90 | WG | 0.5 | lb ai/a | 0.556 | lb/a | V2-4 | B | | | | | | | | | |
| 3 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | | | | | | |
| 4 | REALM Q | | | | | 4 oz/a | | V2-4 | B | | 98 a | 99 a | 99 a | | 98 a | 98 ab | 99 a | |
| 4 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | | | | | | |
| 4 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | | | | | | |
| 4 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | | | | | | |
| 4 | AATREX NINE-O | 90 | WG | 0.5 | lb ai/a | 0.556 | lb/a | V2-4 | B | | | | | | | | | |
| 4 | COC (PRIME OIL) | 100 | SL | 1 | pt/a | 1 | pt/a | V2-4 | B | | | | | | | | | |
| 4 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | | | | | | |
| 4 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | LPOST | C | | | | | | | | | |
| 4 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | LPOST | C | | | | | | | | | |
| 5 | CINCH ATZ | 5.5 | SC | 1.37 | lb ai/a | 1 | qt/a | PRE | A | 85 a | 98 a | 98 a | 99 a | 83 ab | 99 a | 97 ab | 98 ab | |
| 5 | REALM Q | | | | | 4 oz/a | | V2-4 | B | | | | | | | | | |
| 5 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | | | | | | |
| 5 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | | | | | | |
| 5 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | | | | | | |
| 5 | COC (PRIME OIL) | 100 | SL | 1 | pt/a | 1 | pt/a | V2-4 | B | | | | | | | | | |
| 5 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | | | | | | |
| 6 | CINCH ATZ | 5.5 | SC | 1.37 | lb ai/a | 1 | qt/a | PRE | A | 78 a | 98 a | 97 abc | 96 b | 84 ab | 99 a | 97 ab | 97 ab | |
| 6 | REALM Q | | | | | 4 oz/a | | V2-4 | B | | | | | | | | | |
| 6 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | | | | | | |
| 6 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | | | | | | |
| 6 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | | | | | | |
| 6 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | V2-4 | B | | | | | | | | | |
| 6 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | | | | | | |
| 7 | PREQUEL | 45 | WG | | | 1.66 | oz/a | PRE | A | 88 a | 98 a | 97 ab | 98 ab | 86 a | 98 a | 97 ab | 98 ab | |
| 7 | RESOLVE SG | 25 | SG | 0.0156 | lb ai/a | | | PRE | A | | | | | | | | | |
| 7 | ISOXAFLUTOLE | 75 | WG | 0.0313 | lb ai/a | | | PRE | A | | | | | | | | | |
| 7 | AATREX NINE-O | 90 | WG | 0.5 | lb ai/a | 0.556 | lb/a | PRE | A | | | | | | | | | |
| 7 | REALM Q | | | | | 4 oz/a | | V2-4 | B | | | | | | | | | |
| 7 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | | | | | | |
| 7 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | | | | | | |
| 7 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | | | | | | |
| 7 | COC (PRIME OIL) | 100 | SL | 1 | pt/a | 1 | pt/a | V2-4 | B | | | | | | | | | |
| 7 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | | | | | | |
| 8 | PREQUEL | 45 | WG | | | 1.66 | oz/a | PRE | A | 53 b | 98 a | 97 a | 99 a | 75 c | 98 a | 98 a | 98 a | |
| 8 | RESOLVE SG | 25 | SG | 0.0156 | lb ai/a | | | PRE | A | | | | | | | | | |
| 8 | ISOXAFLUTOLE | 75 | WG | 0.0313 | lb ai/a | | | PRE | A | | | | | | | | | |
| 8 | REALM Q | | | | | 4 oz/a | | V2-4 | B | | | | | | | | | |
| 8 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | | | | | | |
| 8 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | | | | | | |
| 8 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | | | | | | |
| 8 | AATREX NINE-O | 90 | WG | 0.5 | lb ai/a | 0.556 | lb/a | V2-4 | B | | | | | | | | | |
| 8 | COC (PRIME OIL) | 100 | SL | 1 | pt/a | 1 | pt/a | V2-4 | B | | | | | | | | | |
| 8 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | | | | | | |

Realm Q Evaluation in Corn.

Trial ID: 11-2B-MW90

Location: Belleville Res. Center

| Pest Code | AMBTR | AMBTR | AMBTR | AMBTR | IPOSS | IPOSS | IPOSS | IPOSS | | | | | | | | | |
|-------------------|--------------------|-----------|-----------|---------|-----------|------------|-----------------|--------------|-----------|--------|----------|---------|----------|---------|----------|---------|----------|
| Crop Code | 6-21-11 | 7-5-11 | 7-19-11 | 8-16-11 | 6-21-11 | 7-5-11 | 7-19-11 | 8-16-11 | | | | | | | | | |
| Rating Date | Control | Control | Control | Control | Control | Control | Control | Control | | | | | | | | | |
| Rating Data Type | Percent | Percent | Percent | Percent | Percent | Percent | Percent | Percent | | | | | | | | | |
| Rating Unit | 16 DA-A | 30 DA-A | 8 DA-C | 36 DA-C | 16 DA-A | 30 DA-A | 8 DA-C | 36 DA-C | | | | | | | | | |
| Rating Timing | 0 DA-B | 14 DA-B | 28 DA-B | 56 DA-B | 0 DA-B | 14 DA-B | 28 DA-B | 56 DA-B | | | | | | | | | |
| Trt-Eval Interval | | | | | | | | | | | | | | | | | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Other Rate | Other Rate Unit | Growth Stage | Appl Code | | | | | | | | |
| 9 | PREQUEL | 45 | WG | | | 1.66 | oz/a | PRE | A | 88 a | 98 a | 97 a | 97 ab | 86 a | 98 a | 98 ab | 98 ab |
| 9 | RESOLVE SG | 25 | SG | 0.0156 | lb ai/a | | | PRE | A | | | | | | | | |
| 9 | ISOXAFLUTOLE | 75 | WG | 0.0313 | lb ai/a | | | PRE | A | | | | | | | | |
| 9 | AATREX NINE-O | 90 | WG | 0.5 | lb ai/a | 0.556 | lb/a | PRE | A | | | | | | | | |
| 9 | REALM Q | | | | | | 4 oz/a | V2-4 | B | | | | | | | | |
| 9 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 9 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 9 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 9 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | V2-4 | B | | | | | | | | |
| 9 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | | | | | |
| 10 | PREQUEL | 45 | WG | | | 1.66 | oz/a | PRE | A | 84 a | 98 a | 94 c | 97 ab | 78 bc | 98 a | 91 d | 96 b |
| 10 | RESOLVE SG | 25 | SG | 0.0156 | lb ai/a | | | PRE | A | | | | | | | | |
| 10 | ISOXAFLUTOLE | 75 | WG | 0.0313 | lb ai/a | | | PRE | A | | | | | | | | |
| 10 | AATREX NINE-O | 90 | WG | 0.5 | lb ai/a | 0.556 | lb/a | PRE | A | | | | | | | | |
| 10 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | V2-4 | B | | | | | | | | |
| 10 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | | | | | |
| 11 | CINCH ATZ | 5.5 | SC | 1.37 | lb ai/a | 1 | qt/a | V2-4 | B | | 98 a | 99 a | 99 a | | 98 a | 98 a | 98 ab |
| 11 | REALM Q | | | | | | 4 oz/a | V2-4 | B | | | | | | | | |
| 11 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 11 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 11 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | | | | | |
| 11 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | LPOST | C | | | | | | | | |
| 11 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | LPOST | C | | | | | | | | |
| 12 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | V2-4 | B | | 98 a | 98 a | 97 ab | | 98 a | 95 bc | 98 ab |
| 12 | NIS (ACTIVATOR 90) | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | V2-4 | B | | | | | | | | |
| 12 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | | | | | |
| 13 | NONTREATED | | | | | | | | | 0 c | 0 c | 0 d | 0 c | 0 d | 0 c | 0 e | 0 c |
| LSD (P=.05) | | | | | | | | | | 13.5 | 2.4 | 2.5 | 2.3 | 7.7 | 2.4 | 2.8 | 1.5 |
| Replicate F | | | | | | | | | | 1.134 | 1.821 | 1.985 | 1.953 | 6.355 | 2.195 | 5.409 | 5.837 |
| Replicate Prob(F) | | | | | | | | | | 0.3617 | 0.1607 | 0.1337 | 0.1386 | 0.0040 | 0.1054 | 0.0035 | 0.0023 |
| Treatment F | | | | | | | | | | 50.431 | 1058.358 | 960.018 | 1133.046 | 143.933 | 1054.504 | 749.801 | 2661.849 |
| Treatment Prob(F) | | | | | | | | | | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |

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

Realm Q Evaluation in Corn.

Trial ID: 11-2B-MW90

Location: Belleville Res. Center

| Pest Code | | | | | | | | ABUTH | ABUTH | ABUTH | ABUTH | | |
|-------------------|-----------------|-----------|-----------|--------|-----------|------------|-----------------|--------------|-----------|---------|---------|------|------|
| Crop Code | | | | | | | | | | | | | |
| Rating Date | | | | | | | | 6-21-11 | 7-5-11 | 7-19-11 | 8-16-11 | | |
| Rating Data Type | | | | | | | | Control | Control | Control | Control | | |
| Rating Unit | | | | | | | | Percent | Percent | Percent | Percent | | |
| Rating Timing | | | | | | | | 16 DA-A | 30 DA-A | 8 DA-C | 36 DA-C | | |
| Trt-Eval Interval | | | | | | | | 0 DA-B | 14 DA-B | 28 DA-B | 56 DA-B | | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Other Rate | Other Rate Unit | Growth Stage | Appl Code | | | | |
| 1 | REALM Q | | | | | 4 oz/a | | V2-4 | B | | 99 ab | 99 a | 99 a |
| 1 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | |
| 1 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | |
| 1 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | |
| 1 | COC (PRIME OIL) | 100 | SL | 1 | pt/a | | | V2-4 | B | | | | |
| 1 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | |
| 1 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | LPOST | C | | | | |
| 1 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | LPOST | C | | | | |
| 2 | REALM Q | | | | | 4 oz/a | | V2-4 | B | | 99 a | 99 a | 99 a |
| 2 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | |
| 2 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | |
| 2 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | |
| 2 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | V2-4 | B | | | | |
| 2 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | |
| 3 | REALM Q | | | | | 4 oz/a | | V2-4 | B | | 99 a | 98 a | 99 a |
| 3 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | |
| 3 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | |
| 3 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | |
| 3 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | V2-4 | B | | | | |
| 3 | AATREX NINE-O | 90 | WG | 0.5 | lb ai/a | 0.556 | lb/a | V2-4 | B | | | | |
| 3 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | |
| 4 | REALM Q | | | | | 4 oz/a | | V2-4 | B | | 99 ab | 99 a | 99 a |
| 4 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | |
| 4 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | |
| 4 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | |
| 4 | AATREX NINE-O | 90 | WG | 0.5 | lb ai/a | 0.556 | lb/a | V2-4 | B | | | | |
| 4 | COC (PRIME OIL) | 100 | SL | 1 | pt/a | 1 | pt/a | V2-4 | B | | | | |
| 4 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | |
| 4 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | LPOST | C | | | | |
| 4 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | LPOST | C | | | | |
| 5 | CINCH ATZ | 5.5 | SC | 1.37 | lb ai/a | 1 | qt/a | PRE | A | 89 ab | 99 ab | 99 a | 99 a |
| 5 | REALM Q | | | | | 4 oz/a | | V2-4 | B | | | | |
| 5 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | |
| 5 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | |
| 5 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | |
| 5 | COC (PRIME OIL) | 100 | SL | 1 | pt/a | 1 | pt/a | V2-4 | B | | | | |
| 5 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | |
| 6 | CINCH ATZ | 5.5 | SC | 1.37 | lb ai/a | 1 | qt/a | PRE | A | 86 b | 99 ab | 98 a | 99 a |
| 6 | REALM Q | | | | | 4 oz/a | | V2-4 | B | | | | |
| 6 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | |
| 6 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | |
| 6 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | |
| 6 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | V2-4 | B | | | | |
| 6 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | |
| 7 | PREQUEL | 45 | WG | | | 1.66 | oz/a | PRE | A | 93 ab | 98 b | 99 a | 99 a |
| 7 | RESOLVE SG | 25 | SG | 0.0156 | lb ai/a | | | PRE | A | | | | |
| 7 | ISOXAFLUTOLE | 75 | WG | 0.0313 | lb ai/a | | | PRE | A | | | | |
| 7 | AATREX NINE-O | 90 | WG | 0.5 | lb ai/a | 0.556 | lb/a | PRE | A | | | | |
| 7 | REALM Q | | | | | 4 oz/a | | V2-4 | B | | | | |
| 7 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | |
| 7 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | |
| 7 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | |
| 7 | COC (PRIME OIL) | 100 | SL | 1 | pt/a | 1 | pt/a | V2-4 | B | | | | |
| 7 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | |
| 8 | PREQUEL | 45 | WG | | | 1.66 | oz/a | PRE | A | 78 c | 99 a | 99 a | 99 a |
| 8 | RESOLVE SG | 25 | SG | 0.0156 | lb ai/a | | | PRE | A | | | | |
| 8 | ISOXAFLUTOLE | 75 | WG | 0.0313 | lb ai/a | | | PRE | A | | | | |
| 8 | REALM Q | | | | | 4 oz/a | | V2-4 | B | | | | |
| 8 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | |
| 8 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | |
| 8 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | |
| 8 | AATREX NINE-O | 90 | WG | 0.5 | lb ai/a | 0.556 | lb/a | V2-4 | B | | | | |
| 8 | COC (PRIME OIL) | 100 | SL | 1 | pt/a | 1 | pt/a | V2-4 | B | | | | |
| 8 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | |

Realm Q Evaluation in Corn.

Trial ID: 11-2B-MW90

Location: Belleville Res. Center

| | | | | | | ABUTH | ABUTH | ABUTH | ABUTH | | | | |
|-------------------|--------------------|-----------|-----------|--------|-----------|------------|-----------------|--------------|-----------|---------|-----------|----------|--------|
| Pest Code | Crop Code | | | | | 6-21-11 | 7-5-11 | 7-19-11 | 8-16-11 | | | | |
| Rating Date | Rating Data Type | | | | | Control | Control | Control | Control | | | | |
| Rating Unit | Rating Timing | | | | | Percent | Percent | Percent | Percent | | | | |
| Trt-Eval Interval | | | | | | 16 DA-A | 30 DA-A | 8 DA-C | 36 DA-C | | | | |
| | | | | | | 0 DA-B | 14 DA-B | 28 DA-B | 56 DA-B | | | | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Other Rate | Other Rate Unit | Growth Stage | Appl Code | | | | |
| 9 | PREQUEL | 45 | WG | | | 1.66 | oz/a | PRE | A | 95 a | 99 a | 99 a | 99 a |
| 9 | RESOLVE SG | 25 | SG | 0.0156 | lb ai/a | | | PRE | A | | | | |
| 9 | ISOXAFLUTOLE | 75 | WG | 0.0313 | lb ai/a | | | PRE | A | | | | |
| 9 | AATREX NINE-O | 90 | WG | 0.5 | lb ai/a | 0.556 | lb/a | PRE | A | | | | |
| 9 | REALM Q | | | | | | 4 oz/a | V2-4 | B | | | | |
| 9 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | |
| 9 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | |
| 9 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | |
| 9 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | V2-4 | B | | | | |
| 9 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | |
| 10 | PREQUEL | 45 | WG | | | 1.66 | oz/a | PRE | A | 92 ab | 99 ab | 98 a | 99 a |
| 10 | RESOLVE SG | 25 | SG | 0.0156 | lb ai/a | | | PRE | A | | | | |
| 10 | ISOXAFLUTOLE | 75 | WG | 0.0313 | lb ai/a | | | PRE | A | | | | |
| 10 | AATREX NINE-O | 90 | WG | 0.5 | lb ai/a | 0.556 | lb/a | PRE | A | | | | |
| 10 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | V2-4 | B | | | | |
| 10 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | |
| 11 | CINCH ATZ | 5.5 | SC | 1.37 | lb ai/a | 1 | qt/a | V2-4 | B | | 99 ab | 99 a | 99 a |
| 11 | REALM Q | | | | | | 4 oz/a | V2-4 | B | | | | |
| 11 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | |
| 11 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | |
| 11 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | |
| 11 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | LPOST | C | | | | |
| 11 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | LPOST | C | | | | |
| 12 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | V2-4 | B | | 99 a | 98 a | 99 a |
| 12 | NIS (ACTIVATOR 90) | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | V2-4 | B | | | | |
| 12 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | |
| 13 | NONTREATED | | | | | | | | | 0 d | 0 c | 0 b | 0 b |
| LSD (P=.05) | | | | | | | | | | 7.8 | 0.6 | 1.1 | 0.0 |
| Replicate F | | | | | | | | | | 4.956 | 2.058 | 4.815 | 0.000 |
| Replicate Prob(F) | | | | | | | | | | 0.0111 | 0.1230 | 0.0064 | 1.0000 |
| Treatment F | | | | | | | | | | 169.014 | 16336.327 | 5060.501 | 0.000 |
| Treatment Prob(F) | | | | | | | | | | 0.0001 | 0.0001 | 0.0001 | 1.0000 |

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

Realm Q Evaluation in Corn.

Trial ID: 11-2B-MW90

Location: Belleville Res. Center

| Pest Code | Crop Code | Rating Date | Rating Data Type | Rating Unit | Rating Timing | Trt-Eval Interval | SETFA | SETFA | SETFA | SETFA | PANDI |
|-----------|-----------------|-------------|------------------|-------------|---------------|-------------------|---------|---------|---------|---------|---------|
| | | | | | | | 6-21-11 | 7-5-11 | 7-19-11 | 8-16-11 | 8-16-11 |
| | | | | | | | Control | Control | Control | Control | Control |
| | | | | | | | Percent | Percent | Percent | Percent | Percent |
| | | | | | | | 16 DA-A | 30 DA-A | 8 DA-C | 36 DA-C | 36 DA-C |
| | | | | | | | 0 DA-B | 14 DA-B | 28 DA-B | 56 DA-B | 56 DA-B |
| 1 | REALM Q | | | | | | | | | | |
| 1 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | | | 95 c | 99 a |
| 1 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | | | | 99 a |
| 1 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | | | | 98 a |
| 1 | COC (PRIME OIL) | 100 | SL | 1 | pt/a | | | | | | |
| 1 | N-PAK AMS | 100 | SL | 3.9 | % v/v | | | | | | |
| 1 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | | | | |
| 1 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | | | | |
| 2 | REALM Q | | | | | | | | | | |
| 2 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | | | 99 a | 97 abc |
| 2 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | | | | 99 a |
| 2 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | | | | 95 ab |
| 2 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | | | | |
| 2 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | | | | |
| 3 | REALM Q | | | | | | | | | | |
| 3 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | | | 99 a | 96 c |
| 3 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | | | | 99 a |
| 3 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | | | | 93 b |
| 3 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | | | | |
| 3 | AATREX NINE-O | 90 | WG | 0.5 | lb ai/a | 0.556 | lb/a | | | | |
| 3 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | | | | |
| 4 | REALM Q | | | | | | | | | | |
| 4 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | | | 97 b | 99 a |
| 4 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | | | | 99 a |
| 4 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | | | | 98 a |
| 4 | AATREX NINE-O | 90 | WG | 0.5 | lb ai/a | 0.556 | lb/a | | | | |
| 4 | COC (PRIME OIL) | 100 | SL | 1 | pt/a | 1 | pt/a | | | | |
| 4 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | | | | |
| 4 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | | | | |
| 4 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | | | | |
| 5 | CINCH ATZ | 5.5 | SC | 1.37 | lb ai/a | 1 | qt/a | | | 99 a | 99 a |
| 5 | REALM Q | | | | | | | | | 99 ab | 99 a |
| 5 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | | | | 98 a |
| 5 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | | | | |
| 5 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | | | | |
| 5 | COC (PRIME OIL) | 100 | SL | 1 | pt/a | 1 | pt/a | | | | |
| 5 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | | | | |
| 6 | CINCH ATZ | 5.5 | SC | 1.37 | lb ai/a | 1 | qt/a | | | 98 ab | 99 a |
| 6 | REALM Q | | | | | | | | | 98 ab | 99 a |
| 6 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | | | | 98 a |
| 6 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | | | | |
| 6 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | | | | |
| 6 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | | | | |
| 6 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | | | | |
| 7 | PREQUEL | 45 | WG | | | 1.66 | oz/a | | | 98 ab | 99 a |
| 7 | RESOLVE SG | 25 | SG | 0.0156 | lb ai/a | | | | | 98 ab | 98 ab |
| 7 | ISOXAFLUTOLE | 75 | WG | 0.0313 | lb ai/a | | | | | | 99 a |
| 7 | AATREX NINE-O | 90 | WG | 0.5 | lb ai/a | 0.556 | lb/a | | | | 97 ab |
| 7 | REALM Q | | | | | | | | | | |
| 7 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | | | | |
| 7 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | | | | |
| 7 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | | | | |
| 7 | COC (PRIME OIL) | 100 | SL | 1 | pt/a | 1 | pt/a | | | | |
| 7 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | | | | |
| 8 | PREQUEL | 45 | WG | | | 1.66 | oz/a | | | 96 b | 99 a |
| 8 | RESOLVE SG | 25 | SG | 0.0156 | lb ai/a | | | | | 96 b | 99 a |
| 8 | ISOXAFLUTOLE | 75 | WG | 0.0313 | lb ai/a | | | | | | 98 abc |
| 8 | REALM Q | | | | | | | | | | 99 b |
| 8 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | | | | 97 ab |
| 8 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | | | | |
| 8 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | | | | |
| 8 | AATREX NINE-O | 90 | WG | 0.5 | lb ai/a | 0.556 | lb/a | | | | |
| 8 | COC (PRIME OIL) | 100 | SL | 1 | pt/a | 1 | pt/a | | | | |
| 8 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | | | | |

Realm Q Evaluation in Corn.

Trial ID: 11-2B-MW90

Location: Belleville Res. Center

| Pest Code | | | | | | | | SETFA | SETFA | SETFA | SETFA | PANDI | |
|-------------------|--------------------|-----------|-----------|--------|-----------|------------|-----------------|--------------|-----------|----------|----------|----------|--------------------|
| Crop Code | | | | | | | | | | | | | |
| Rating Date | | | | | | | | 6-21-11 | 7-5-11 | 7-19-11 | 8-16-11 | 8-16-11 | |
| Rating Data Type | | | | | | | | Control | Control | Control | Control | Control | |
| Rating Unit | | | | | | | | Percent | Percent | Percent | Percent | Percent | |
| Rating Timing | | | | | | | | 16 DA-A | 30 DA-A | 8 DA-C | 36 DA-C | 36 DA-C | |
| Trt-Eval Interval | | | | | | | | 0 DA-B | 14 DA-B | 28 DA-B | 56 DA-B | 56 DA-B | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Other Rate | Other Rate Unit | Growth Stage | Appl Code | | | | |
| 9 | PREQUEL | 45 | WG | | | 1.66 | oz/a | PRE | A | 99 a | 99 a | 98 abc | 99 a 97 ab |
| 9 | RESOLVE SG | 25 | SG | 0.0156 | lb ai/a | | | PRE | A | | | | |
| 9 | ISOXAFLUTOLE | 75 | WG | 0.0313 | lb ai/a | | | PRE | A | | | | |
| 9 | AATREX NINE-O | 90 | WG | 0.5 | lb ai/a | 0.556 | lb/a | PRE | A | | | | |
| 9 | REALM Q | | | | | | 4 oz/a | V2-4 | B | | | | |
| 9 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | |
| 9 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | |
| 9 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | |
| 9 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | V2-4 | B | | | | |
| 9 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | |
| 10 | PREQUEL | 45 | WG | | | 1.66 | oz/a | PRE | A | 99 a | 99 a | 97 bc | 99 a 97 ab |
| 10 | RESOLVE SG | 25 | SG | 0.0156 | lb ai/a | | | PRE | A | | | | |
| 10 | ISOXAFLUTOLE | 75 | WG | 0.0313 | lb ai/a | | | PRE | A | | | | |
| 10 | AATREX NINE-O | 90 | WG | 0.5 | lb ai/a | 0.556 | lb/a | PRE | A | | | | |
| 10 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | V2-4 | B | | | | |
| 10 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | |
| 11 | CINCH ATZ | 5.5 | SC | 1.37 | lb ai/a | 1 | qt/a | V2-4 | B | | 99 a | 99 a | 99 a 98 a |
| 11 | REALM Q | | | | | | 4 oz/a | V2-4 | B | | | | |
| 11 | RESOLVE SG | 25 | SG | 0.0188 | lb ai/a | | | V2-4 | B | | | | |
| 11 | DPX-4145 | 50 | WG | 0.0094 | lb ai/a | | | V2-4 | B | | | | |
| 11 | MESOTRIONE | 50 | WG | 0.078 | lb ai/a | | | V2-4 | B | | | | |
| 11 | ABUNDIT EXTRA | 3 | SL | 0.75 | lb ae/a | 32 | fl oz/a | LPOST | C | | | | |
| 11 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | LPOST | C | | | | |
| 12 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | V2-4 | B | | 99 a | 98 abc | 99 a 96 ab |
| 12 | NIS (ACTIVATOR 90) | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | V2-4 | B | | | | |
| 12 | N-PAK AMS | 100 | SL | 3.9 | % v/v | 3.9 | % v/v | V2-4 | B | | | | |
| 13 | NONTREATED | | | | | | | | | 0 c | 0 d | 0 d | 0 c 0 c |
| LSD (P=.05) | | | | | | | | | | 2.7 | 1.0 | 2.0 | 0.2 4.4 |
| Replicate F | | | | | | | | | | 0.515 | 0.752 | 2.465 | 1.000 2.752 |
| Replicate Prob(F) | | | | | | | | | | 0.6769 | 0.5286 | 0.0780 | 0.4040 0.0567 |
| Treatment F | | | | | | | | | | 1717.969 | 5922.784 | 1533.507 | 156751.016 309.402 |
| Treatment Prob(F) | | | | | | | | | | 0.0001 | 0.0001 | 0.0001 | 0.0001 0.0001 |

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

Trial Comments

1. Protocol: DuPont (111).
2. Ratings: CI at 14 DAP and 7, 14, and 28 DA-B; WC at 0, 14, 28 and 56 DA-B; Evaluation at 28 DA-B should be prior to application C.
3. Yield if possible.
4. Application C should target 3-4"W and/or 28 DA-B or less.
5. Harvested 10-25-11, (2) 30 inch rows by 25 ft.