VALOR AND PREPARE PREPLANT RATES AND TIMINGS IN WINTER WHEAT

Trial ID: 08F-SEP-NTW-01  Protocol ID: 08F-SEP-NTW-01
Location: SEPAC  Study Director: MELISSA KRUGER
Project ID:   Investigator: Dr. Bill Johnson
Sponsor Contact: ERIC OTT

General Trial Information

Study Director: MELISSA KRUGER/PAUL MARQUARDT  Title: LAB TECH VIII/RESEARCH ASSOC.
Investigator: DR. WILLIAM G. JOHNSON  Title: ASSOCIATE PROFESSOR

Discipline:  H herbicide
Trial Status:  F one-year/final
Initiation Date: 9/18/08  Planned Completion Date: 7/2/09

Trial Location

City: BUTLERVILLE
State/Prov.: IN
Postal Code: 47223-0216
Country: USA

Objectives:
The objective of the trial is to compare Valor and Pre-Pare rates and timings in winter wheat and to evaluate Bayer and DuPont wheat applications.

Personnel

Study Director: MELISSA KRUGER/PAUL MARQUARDT  Title: LAB TECH VIII/RESEARCH ASSOC.
Affiliation: PURDUE UNIVERSITY
Address: 915 W. STATE ST.
Location: WEST LAFAYETTE, IN USA
Postal Code: 47907  E-mail: MMKRUGER@PURDUE.EDU/PMARQUAR@PURDUE.EDU
Phone No.: 765-494-4621

Investigator: DR. WILLIAM G. JOHNSON  Title: ASSOCIATE PROFESSOR
Affiliation: PURDUE UNIVERSITY
Address: 915 W. STATE ST.
Location: WEST LAFAYETTE, IN USA
Postal Code: 47907  E-mail: WGJ@PURDUE.EDU
Phone No.: 765-494-4656

Cooperator/Landowner

Cooperator: SOUTHEASTERN-PURDUE AG CENTER  Role: COOPERATOR
Organization: PURDUE UNIVERSITY
Address 1: 4425 E CO. RD. 350 N
City: BUTLERVILLE
State/Prov.: IN
Postal Code: 47722-021  E-mail: BIEHLED@PURDUE.EDU
Country: USA  United States

Crop Description

Crop 1: TRZAW  TRITICUM AESTIVUM (WINTER)  Winter wheat
Variety: PIONEER 25R47
BBCH Scale: BCER
Planting Method: DRILLE  drilled
Depth, Unit: 1  IN
Soil Moisture: DRY  dry
Soil Temperature, Unit: 60  F
Emergence Date: 10/17/08
Harvest Date: 7/2/09
Harvested Width, Unit: 5  FT
Harvested Length, Unit: 25  FT
% Standard Moisture: 13.5

Pest Description

Pest 1 Type: W  Code: ALLVI  ALLIUM VINEALE
Common Name: Wild garlic

Pest 2 Type: W  Code: TAROF  TARAXACUM OFFICINALE
Common Name: Common dandelion

Pest 3 Type: W  Code: PLALA  PLANTAGO LANCEOLATA
Common Name: Buckhorn plantain

Pest 4 Type: W  Code: IPOSS  IPOMOEAS P.

Common Name: Morning glory

Pest 5 Type: W  Code: DIGSA  DIGITARIA SANGUINALIS

Common Name: Large crabgrass

Site and Design

Plot Width, Unit: 10 FT  Site Type: FIELD  field
Plot Length, Unit: 30 FT  Experimental Unit: 1  PLOT  plot
Plot Area, Unit: 300 FT2  Tillage Type: CONTIL  conventional-till
Repetitions: 3  Study Design: RACOB, Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED  single control randomized in each block

Field Prep./Maintenance:
Field was disked 3 times on 9/17/08

Soil Description

Description Name: SEPAC FIELD U41-6
% OM: 1.3  Texture: SIL  silt loam
pH: 6.5  Soil Name: AVONBURG
CEC: 5.7

Moisture and Weather Conditions

Closest Weather Station: ON RESEARCH FARM  Distance, Unit: 0.5 MI

Application Description

<table>
<thead>
<tr>
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Crop Stage At Each Application

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Pest Stage At Each Application
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### Stage Majority, Percent:

- N/A

### Height, Unit:

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### Height Minimum, Maximum:

- 2 YD2
- 30 YD2
- 30 YD2
- 30 YD2
- 30 YD2

### Density, Unit:

- 12 YD2
- 30 YD2
- 30 YD2
- 30 YD2
- 30 YD2

### Pest 2 Code, Type, Scale:

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### Stage Majority, Percent:

- N/A

### Height, Unit:

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<td></td>
<td>1.5 IN</td>
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### Height Minimum, Maximum:

- 0 YD2
- 1 YD2
- 1 YD2
- 1 YD2
- 1 YD2

### Density, Unit:

- 2 YD2
- 3 YD2
- 3 YD2
- 3 YD2
- 3 YD2

### Pest 3 Code, Type, Scale:

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### Stage Majority, Percent:

- N/A

### Height, Unit:

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<td>3 IN</td>
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### Height Minimum, Maximum:

- 0 YD2
- 1 YD2
- 1 YD2
- 1 YD2
- 1 YD2

### Density, Unit:

- 2 YD2
- 3 YD2
- 3 YD2
- 3 YD2
- 3 YD2

### Pest 4 Code, Type, Scale:

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### Stage Majority, Percent:

- N/A

### Height, Unit:

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<th>B</th>
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<td>0.5 IN</td>
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### Height Minimum, Maximum:

- 0 YD2
- 1 YD2
- 1 YD2
- 1 YD2
- 1 YD2

### Density, Unit:

- 2 YD2
- 3 YD2
- 3 YD2
- 3 YD2
- 3 YD2

### Pest 5 Code, Type, Scale:

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### Stage Majority, Percent:

- N/A

### Height, Unit:

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<th>B</th>
<th>C</th>
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<tbody>
<tr>
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<td>3 IN</td>
<td>4 IN</td>
<td>4 IN</td>
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</table>

### Height Minimum, Maximum:

- 0 YD2
- 1 YD2
- 1 YD2
- 1 YD2
- 1 YD2

### Density, Unit:

- 1 YD2
- 1 YD2
- 1 YD2
- 1 YD2
- 1 YD2

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### Application Equipment

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### Operating Pressure, Unit:

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### Nozzle Type:

- FLAT FAN

### Nozzle Size:

- XR11002

### Nozzle Spacing, Unit:

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### Boom Length, Unit:

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<td>10 FT</td>
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### Boom Height, Unit:

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### Ground Speed, Unit:

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### Carrier:

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### Water Hardness (ppm CaCO3):

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### Spray Volume, Unit:

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### Mix Size, Unit:

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### Propellant:

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### Tank Mix (Y/N):

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### VALOR AND PREPARE PREPLANT RATES AND TIMINGS IN WINTER WHEAT

**Trial ID:** 08F-SEP-NTW-01  
**Protocol ID:** 08F-SEP-NTW-01  
**Location:** SEPAC  
**Study Director:** MELISSA KRUGER  
**Project ID:** Investigator: Dr. Bill Johnson  
**Sponsor Contact:** ERIC OTT

<table>
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<tr>
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Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
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| 14      | VALOR SX  | 0.765 oz ai/a | B     |      |
|         | PRE-PARE  | 0.21 oz ai/a  | B     | 7    | 8    |
|         | Roundup PowerMAX | 12.4 oz ae/a | B     |      |
|         | Ammonium Sulfate  | 2 % w/w | B     |      |

| 15      | VALOR SX  | 1.02 oz ai/a  | B     |      |
|         | PRE-PARE  | 0.21 oz ai/a  | B     | 7    | 8    |
|         | Roundup PowerMAX | 12.4 oz ae/a | B     |      |
|         | Ammonium Sulfate  | 2 % w/w | B     |      |

| 16      | VALOR SX  | 1.28 oz ai/a  | B     |      |
|         | PRE-PARE  | 0.21 oz ai/a  | B     | 7    | 8    |
|         | Roundup PowerMAX | 12.4 oz ae/a | B     |      |
|         | Ammonium Sulfate  | 2 % w/w | B     |      |

| 17      | VALOR SX  | 2.04 oz ai/a  | B     |      |
|         | PRE-PARE  | 0.42 oz ai/a  | B     | 7    | 8    |
|         | 2,4-D Amine | 12.4 oz ae/a | B     |      |
|         | Ammonium Sulfate  | 2 % w/w | B     |      |

| 18      | VALOR SX  | 1.02 oz ai/a  | B     |      |
|         | PRE-PARE  | 0.21 oz ai/a  | B     | 7    | 8    |
|         | Roundup PowerMAX | 12.4 oz ae/a | B     |      |
|         | Ammonium Sulfate  | 2 % w/w | B     |      |
|         | EVEREST   | 0.21 oz ai/a  | F     |      |
|         | QUAD 7    | 1 % v/v       | F     |      |
| Pest Type | Pest Code | Pest Scientific Name | Pest Name | Crop Code | Crop Scientific Name | Crop Name | Part Rated | Rating Date | Rating Type | Rating Unit | Sample Size, Unit | Number of Subsamples | Crop Stage Majority | Crop Stage Minimum/Maximum | Pest Stage Majority | Pest Stage Minimum/Maximum | Pest Density, Unit | Footnote Number | Assessed By | Rating Timing | Days After First/Last Applic. | Trt-Eval Interval | Plant-Eval Interval | Days After Emergence | Number of Decimals | Sample Size, Unit | Number of Subsamples | Crop Stage Majority | Crop Stage Minimum/Maximum | Pest Stage Majority | Pest Stage Minimum/Maximum | Pest Density, Unit | Footnote Number | Assessed By | Rating Timing | Days After First/Last Applic. | Trt-Eval Interval | Plant-Eval Interval | Days After Emergence | Number of Decimals |
|-----------|-----------|----------------------|-----------|-----------|----------------------|-----------|------------|------------|-------------|-------------|------------------|-------------------------|---------------------|----------------------|----------------------|----------------------|------------------|------------------|-------------------------|------------------|------------------|----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Roundup PowerMAX | 12.4 oz ae/a | B | 2 % w/w | B | 12.437 a | 70.1 a | 19 | Roundup PowerMAX | 12.4 oz ae/a | C | 12.250 a | 75.1 a | 20 | VALOR SX | 1.02 oz ai/a | C | 12.317 a | 76.7 a | 21 | PRE-PARE | 0.21 oz ai/a | C | 12.523 a | 69.6 a | 22 | VALOR SX | 0.765 oz ai/a | C | 12.540 a | 62.9 a | 23 | VALOR SX | 0.765 oz ai/a | C | 12.300 a | 59.7 a | 24 | VALOR SX | 1.02 oz ai/a | C | 12.610 a | 66.1 a | 25 | VALOR SX | 1.28 oz ai/a | C |
| Pest Type | Pest Code | Pest Scientific Name | Pest Name | Crop Code | Crop Scientific Name | Crop Name | Part Rated | Rating Date | Rating Type | Rating Unit | Sample Size, Unit | Number of Subsamples | Crop Stage Majority | Crop Stage Minimum/Maximum | Pest Stage Majority | Pest Stage Minimum/Maximum | Pest Density, Unit | Footnote Number | Assessed By | Rating Timing | Days After First/Last Applic. | Trt-Eval Interval | Plant-Eval Interval | Days After Emergence | Number of Decimals |
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| PLOT C    | MOICON   | YIELD               |           |           | 1                    | 1        | PLOT C      | 7/2/09     |             |             | %             | BU                 | 1                    | MATURE               | MATURE                |                        |                        |                       | 287                   | 239                   | 287                   | 239                   | 1                     |

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