

# Ohio State University Horticulture and Crop Science

Glyphosate with and without HM0128, HM9826A, and HM0539 in Soybeans

Trial ID: 09SOYYLD2      Protocol ID: 09SOYYLD2  
 Location: Western Branch      Study Director: Bryan Reeb  
 Project ID: 09SOYYLD2      Investigator: Dr. Mark M. Loux  
 Sponsor Contact:

Reps: 4

Plots: 10 by 40 feet

Spray vol: 20 gal/ac

Mix size: 3 liters (min 2.7808)

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Unit    | Other Rate | Other Unit | Growth Stage | Appl Code | Amt to Measure | Product | Plot No. Rep. 1 | 2   | 3   | 4   |
|---------|----------------|-----------|-----------|------|---------|------------|------------|--------------|-----------|----------------|---------|-----------------|-----|-----|-----|
| 1       | HM0705         | 3         | SL        | 0.75 | lb ae/a | 32         | oz/a       | V4           | A         | 37.5 ml/mx     |         | 101             | 203 | 306 | 405 |
|         | HM0705         | 3         | SL        | 0.75 | lb ae/a | 32         | oz/a       | V8-V10       | B         | 37.5 ml/mx     |         |                 |     |     |     |
| 2       | HM0705         | 3         | SL        | 0.75 | lb ae/a | 32         | oz/a       | V4           | A         | 37.5 ml/mx     |         | 102             | 204 | 303 | 401 |
|         | HM0128         | 100       | L         | 1.25 | % v/v   | 1          | qt/a       | V4           | A         | 37.5 ml/mx     |         |                 |     |     |     |
|         | HM0705         | 3         | SL        | 0.75 | lb ae/a | 32         | oz/a       | V8-V10       | B         | 37.5 ml/mx     |         |                 |     |     |     |
| 3       | HM0705         | 3         | SL        | 0.75 | lb ae/a | 32         | oz/a       | V4           | A         | 37.5 ml/mx     |         | 103             | 202 | 305 | 404 |
|         | HM0128         | 100       | L         | 1.25 | % v/v   | 1          | qt/a       | V4           | A         | 37.5 ml/mx     |         |                 |     |     |     |
|         | HM0705         | 3         | SL        | 0.75 | lb ae/a | 32         | oz/a       | V8-V10       | B         | 37.5 ml/mx     |         |                 |     |     |     |
|         | HM0128         | 100       | L         | 1.25 | % v/v   | 1          | qt/a       | V8-V10       | B         | 37.5 ml/mx     |         |                 |     |     |     |
| 4       | HM0705         | 3         | SL        | 0.75 | lb ae/a | 32         | oz/a       | V4           | A         | 37.5 ml/mx     |         | 104             | 201 | 302 | 406 |
|         | HM0705         | 3         | SL        | 0.75 | lb ae/a | 32         | oz/a       | V8-V10       | B         | 37.5 ml/mx     |         |                 |     |     |     |
|         | HM0128         | 100       | L         | 1.25 | % v/v   | 1          | qt/a       | V8-V10       | B         | 37.5 ml/mx     |         |                 |     |     |     |
| 5       | HM0705         | 3         | SL        | 0.75 | lb ae/a | 32         | oz/a       | V4           | A         | 37.5 ml/mx     |         | 105             | 206 | 301 | 402 |
|         | HM9110         | 100       | L         | 0.25 | % v/v   | 0.2        | qt/a       | V4           | A         | 7.499 ml/mx    |         |                 |     |     |     |
|         | HM0705         | 3         | SL        | 0.75 | lb ae/a | 32         | oz/a       | V8-V10       | B         | 37.5 ml/mx     |         |                 |     |     |     |
|         | HM9110         | 100       | L         | 0.25 | % v/v   | 0.2        | qt/a       | V8-V10       | B         | 7.499 ml/mx    |         |                 |     |     |     |
|         | HM0128         | 100       | L         | 1.25 | % v/v   | 1          | qt/a       | V8-V10       | B         | 37.5 ml/mx     |         |                 |     |     |     |
| 6       | HM0705         | 3         | SL        | 0.75 | lb ae/a | 32         | oz/a       | V4           | A         | 37.5 ml/mx     |         | 106             | 205 | 304 | 403 |
|         | HM0128         | 100       | L         | 1.25 | % v/v   | 1          | qt/a       | V4           | A         | 37.5 ml/mx     |         |                 |     |     |     |
|         | HM0705         | 3         | SL        | 0.75 | lb ae/a | 32         | oz/a       | V8-V10       | B         | 37.5 ml/mx     |         |                 |     |     |     |
|         | HM0128         | 100       | L         | 1.25 | % v/v   | 1          | qt/a       | V8-V10       | B         | 37.5 ml/mx     |         |                 |     |     |     |
|         | HM9826A        | 100       | L         | 0.94 | % v/v   | 1.5        | pt/a       | V8-V10       | B         | 28.2 ml/mx     |         |                 |     |     |     |
|         | HM0539         | 100       | L         | 8    | oz/a    | 8          | oz/a       | V8-V10       | B         | 9.375 ml/mx    |         |                 |     |     |     |

Sort Order: Replicate 1

Product quantities required for listed treatments and applications in one trial:

| Amount* | Unit | Treatment Name | Form Conc | Form Type | Lot Code |
|---------|------|----------------|-----------|-----------|----------|
| 562.439 | ml   | HM0705         | 3         | SL        |          |
| 328.089 | ml   | HM0128         | 100       | L         |          |
| 18.748  | ml   | HM9110         | 100       | L         |          |
| 35.246  | ml   | HM9826A        | 100       | L         |          |
| 11.719  | ml   | HM0539         | 100       | L         |          |

\* 'Per area' calculations based on spray volume= 20 gal/ac, mix size= 3 liters (mix size basis).

\* Product amount calculations increased 25 % for overage adjustment.

\* 'Per volume' calculations use spray volume= 20 gal/ac, mix size= 3 liters.