

**Waterhemp control with strategies using residual herbicides in sugarbeet**

Trial ID: SB06-22 Study Dir.: Sprague, Stiles, Powell  
 Conducted: Shiawassee County Investigator:

**Planting Date:** May-24-2022 **Row Spacing:** 30 IN  
**Variety:** Crystal G049 **No. of Reps:** 4  
**Population:** 4.375 " spacing **% OM:** 2  
**Soil Type:** SL sandy loam **pH:** 5.7  
**Plot Size:** 10 X 25 FT **Study Design:** Randomized Complete Block (RCB)

**Tillage/Previous Crops:** Fall chisel plow; spring disk and soil finished  
**Fertilizer:**

**Crop and Weed Description**

| Weed | Code  | Common Name    | Scientific Name         |
|------|-------|----------------|-------------------------|
| 1    | AMATU | tall waterhemp | Amaranthus tuberculatus |
| Crop | Code  | Common Name    |                         |
| 1    | BEAVA | Sugarbeet      |                         |

**Application Description**

|                                       | A           | B           | C           |
|---------------------------------------|-------------|-------------|-------------|
| <b>Application Timing:</b>            | PRE         | 2-Leaf      | 6-8 Leaf    |
| <b>Date Treated:</b>                  | May-24-2022 | Jun-10-2022 | Jun-21-2022 |
| <b>Time Treated:</b>                  | 2:00 PM     | 10:15 AM    | 8:55 AM     |
| <b>% Cloud Cover:</b>                 | 5           | 5           | 0           |
| <b>Air Temp., Unit:</b>               | 64 F        | 65 F        | 78 F        |
| <b>% Relative Humidity:</b>           | 38          | 66          | 54          |
| <b>Wind Speed/Unit/Dir:</b>           | 3 MPH NE    | 1 MPH N     | 7 MPH W     |
| <b>Soil Temp, Unit:</b>               | 70 F        | 69 F        | 63 F        |
| <b>Leaf Moist/Dew Presence (Y/N):</b> | N           | N           | N           |
| <b>Soil Moist:</b>                    | 4           | 2           | 5           |

**Crop Stage at Each Application**

|                     | A     | B         | C         |
|---------------------|-------|-----------|-----------|
| <b>Crop 1 Name:</b> | BEAVA | BEAVA     | BEAVA     |
| <b>Height:</b>      |       | 1-2 " (2) | 3-5 " (4) |
| <b>Stage:</b>       |       | 2L        | 6L        |

**Weed Stage at Each Application**

|                     | A     | B           | C         |
|---------------------|-------|-------------|-----------|
| <b>Weed 1 Name:</b> | AMATU | AMATU       | AMATU     |
| <b>Height:</b>      |       | 0.5-1 " (1) | 2-5 " (4) |
| <b>Stage:</b>       |       | 2-4 (4)     | 4-12 (10) |

**Weed Density**

**1**  
**Date:** Jun-21-2022  
**Weed Name:** AMATU  
**Density:** 20 FT2

**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      | 11003       | PSI         | 18.0 "        | 20.0 "         | 100.0 "    | 19 GAL/AC    | WATER   | 30 PSI             |
| B    | CUB          | 3.8 MPH      | 11003       | PSI         | 22.0 "        | 20.0 "         | 100.0 "    | 19 GAL/AC    | WATER   | 30 PSI             |
| C    | CUB          | 3.8 MPH      | 11003       | PSI         | 24.0 "        | 20.0 "         | 100.0 "    | 19 GAL/AC    | WATER   | 30 PSI             |

**Comments:** The waterhemp population at this location is glyphosate- and ALS- resistant (Group 9 and 2).

Michigan State University

Waterhemp control with strategies using residual herbicides in sugarbeet

Trial ID: SB06-22 Cooperator Trial ID:  
 Protocol ID: SB06-22 Location: Shiawassee County Trial Year: 2022  
 Project ID: Project ID 2: Project ID 3:  
 Study Director: Sprague, Stiles, Powell Sponsor Contact:  
 Investigator (Creator): Christy Sprague

| Pest Code           | AMATU      | AMATU       | AMATU       | AMATU      | AMATU       | AMATU      |
|---------------------|------------|-------------|-------------|------------|-------------|------------|
| Rating Date         | Jun-8-2022 | Jun-17-2022 | Jun-28-2022 | Jul-5-2022 | Jul-26-2022 | Sep-1-2022 |
| Rating Type         | control    | control     | control     | control    | control     | control    |
| Rating Unit/Min/Max | %, 0, 100  | %, 0, 100   | %, 0, 100   | %, 0, 100  | %, 0, 100   | %, 0, 100  |
| Trt-Eval Interval   | 15 DA-A    | 7 DA-B      | 7 DA-C      | 14 DA-C    | 35 DA-C     | 72 DA-C    |
| Number of Decimals  | 0          | 0           | 0           | 0          | 0           | 0          |

| Trt No. | Treatment Name         | Rate          | Rate Unit | Appl Timing | Appl Code | Jun-8-2022 | Jun-17-2022 | Jun-28-2022 | Jul-5-2022 | Jul-26-2022 | Sep-1-2022 |
|---------|------------------------|---------------|-----------|-------------|-----------|------------|-------------|-------------|------------|-------------|------------|
| 1       | Roundup PowerMax 3 AMS | 30 fl oz/a    | gal       | 2 leaf      | B         | 0          | 0           | 0           | 0          | 0           | 0          |
|         | Roundup PowerMax 3 AMS | 17 lb/100 gal | gal       | 2 leaf      | B         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 20 fl oz/a    | gal       | 6-8 leaf    | C         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 17 lb/100 gal | gal       | 6-8 leaf    | C         |            |             |             |            |             |            |
| 2       | Dual Magnum            | 1.33 pt/a     |           | 2 leaf      | B         | 0          | 41          | 50          | 30         | 20          | 13         |
|         | Roundup PowerMax 3 AMS | 30 fl oz/a    | gal       | 2 leaf      | B         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 17 lb/100 gal | gal       | 2 leaf      | B         |            |             |             |            |             |            |
|         | Dual Magnum            | 1.33 pt/a     |           | 6-8 leaf    | C         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 20 fl oz/a    | gal       | 6-8 leaf    | C         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 17 lb/100 gal | gal       | 6-8 leaf    | C         |            |             |             |            |             |            |
| 3       | Warrant                | 3 pt/a        |           | 2 leaf      | B         | 0          | 49          | 73          | 61         | 45          | 25         |
|         | Roundup PowerMax 3 AMS | 30 fl oz/a    | gal       | 2 leaf      | B         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 17 lb/100 gal | gal       | 2 leaf      | B         |            |             |             |            |             |            |
|         | Warrant                | 3 pt/a        |           | 6-8 leaf    | C         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 20 fl oz/a    | gal       | 6-8 leaf    | C         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 17 lb/100 gal | gal       | 6-8 leaf    | C         |            |             |             |            |             |            |
| 4       | Outlook                | 12 fl oz/a    |           | 2 leaf      | B         | 0          | 41          | 58          | 38         | 23          | 13         |
|         | Roundup PowerMax 3 AMS | 30 fl oz/a    | gal       | 2 leaf      | B         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 17 lb/100 gal | gal       | 2 leaf      | B         |            |             |             |            |             |            |
|         | Outlook                | 12 fl oz/a    |           | 6-8 leaf    | C         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 20 fl oz/a    | gal       | 6-8 leaf    | C         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 17 lb/100 gal | gal       | 6-8 leaf    | C         |            |             |             |            |             |            |
| 5       | Dual Magnum            | 0.5 pt/a      |           | PRE         | A         | 100        | 100         | 96          | 94         | 83          | 80         |
|         | Dual Magnum            | 1.33 pt/a     |           | 2 leaf      | B         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 30 fl oz/a    | gal       | 2 leaf      | B         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 17 lb/100 gal | gal       | 2 leaf      | B         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 20 fl oz/a    | gal       | 6-8 leaf    | C         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 17 lb/100 gal | gal       | 6-8 leaf    | C         |            |             |             |            |             |            |
| 6       | Dual Magnum            | 0.5 pt/a      |           | PRE         | A         | 100        | 100         | 97          | 95         | 90          | 88         |
|         | Warrant                | 3 pt/a        |           | 2 leaf      | B         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 30 fl oz/a    | gal       | 2 leaf      | B         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 17 lb/100 gal | gal       | 2 leaf      | B         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 20 fl oz/a    | gal       | 6-8 leaf    | C         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 17 lb/100 gal | gal       | 6-8 leaf    | C         |            |             |             |            |             |            |
| 7       | Dual Magnum            | 0.5 pt/a      |           | PRE         | A         | 100        | 99          | 97          | 97         | 89          | 86         |
|         | Outlook                | 16 fl oz/a    |           | 2 leaf      | B         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 30 fl oz/a    | gal       | 2 leaf      | B         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 17 lb/100 gal | gal       | 2 leaf      | B         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 20 fl oz/a    | gal       | 6-8 leaf    | C         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 17 lb/100 gal | gal       | 6-8 leaf    | C         |            |             |             |            |             |            |
| 8       | Dual Magnum            | 0.5 pt/a      |           | PRE         | A         | 100        | 99          | 98          | 93         | 88          | 86         |
|         | Dual Magnum            | 1.33 pt/a     |           | 2 leaf      | B         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 30 fl oz/a    | gal       | 2 leaf      | B         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 17 lb/100 gal | gal       | 2 leaf      | B         |            |             |             |            |             |            |
|         | Sequence               | 3 pt/a        |           | 6-8 leaf    | C         |            |             |             |            |             |            |
|         | Sequence               | 17 lb/100 gal | gal       | 6-8 leaf    | C         |            |             |             |            |             |            |
| 9       | Dual Magnum            | 0.5 pt/a      |           | PRE         | A         | 99         | 100         | 99          | 97         | 95          | 92         |
|         | Warrant                | 3 pt/a        |           | 2 leaf      | B         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 30 fl oz/a    | gal       | 2 leaf      | B         |            |             |             |            |             |            |
|         | Roundup PowerMax 3 AMS | 17 lb/100 gal | gal       | 2 leaf      | B         |            |             |             |            |             |            |
|         | Sequence               | 3 pt/a        |           | 6-8 leaf    | C         |            |             |             |            |             |            |
|         | Sequence               | 17 lb/100 gal | gal       | 6-8 leaf    | C         |            |             |             |            |             |            |

Missing data estimates are included in columns: Average=1,2,3,4,5,6

Michigan State University

Waterhemp control with strategies using residual herbicides in sugarbeet

Trial ID: SB06-22 Cooperator Trial ID:  
 Protocol ID: SB06-22 Location: Shiawassee County Trial Year: 2022  
 Project ID: Project ID 2: Project ID 3:  
 Study Director: Sprague, Stiles, Powell Sponsor Contact:  
 Investigator (Creator): Christy Sprague

| Pest Code           | AMATU      | AMATU       | AMATU       | AMATU      | AMATU       | AMATU      |
|---------------------|------------|-------------|-------------|------------|-------------|------------|
| Rating Date         | Jun-8-2022 | Jun-17-2022 | Jun-28-2022 | Jul-5-2022 | Jul-26-2022 | Sep-1-2022 |
| Rating Type         | control    | control     | control     | control    | control     | control    |
| Rating Unit/Min/Max | %, 0, 100  | %, 0, 100   | %, 0, 100   | %, 0, 100  | %, 0, 100   | %, 0, 100  |
| Trt-Eval Interval   | 15 DA-A    | 7 DA-B      | 7 DA-C      | 14 DA-C    | 35 DA-C     | 72 DA-C    |
| Number of Decimals  | 0          | 0           | 0           | 0          | 0           | 0          |

| Trt No. | Treatment Name     | Rate | Rate Unit  | Appl Timing | Appl Code |     |     |     |     |    |    |
|---------|--------------------|------|------------|-------------|-----------|-----|-----|-----|-----|----|----|
| 10      | Dual Magnum        | 0.5  | pt/a       | PRE         | A         | 100 | 99  | 97  | 96  | 88 | 85 |
|         | Dual Magnum        | 1.33 | pt/a       | 2 leaf      | B         |     |     |     |     |    |    |
|         | Roundup PowerMax 3 | 30   | fl oz/a    | 2 leaf      | B         |     |     |     |     |    |    |
|         | AMS                | 17   | lb/100 gal | 2 leaf      | B         |     |     |     |     |    |    |
|         | Dual Magnum        | 1.33 | pt/a       | 6-8 leaf    | C         |     |     |     |     |    |    |
|         | Roundup PowerMax 3 | 20   | fl oz/a    | 6-8 leaf    | C         |     |     |     |     |    |    |
|         | AMS                | 17   | lb/100 gal | 6-8 leaf    | C         |     |     |     |     |    |    |
| 11      | Dual Magnum        | 0.5  | pt/a       | PRE         | A         | 100 | 100 | 100 | 100 | 98 | 96 |
|         | Warrant            | 3    | pt/a       | 2 leaf      | B         |     |     |     |     |    |    |
|         | Roundup PowerMax 3 | 30   | fl oz/a    | 2 leaf      | B         |     |     |     |     |    |    |
|         | AMS                | 17   | lb/100 gal | 2 leaf      | B         |     |     |     |     |    |    |
|         | Warrant            | 3    | pt/a       | 6-8 leaf    | C         |     |     |     |     |    |    |
|         | Roundup PowerMax 3 | 20   | fl oz/a    | 6-8 leaf    | C         |     |     |     |     |    |    |
|         | AMS                | 17   | lb/100 gal | 6-8 leaf    | C         |     |     |     |     |    |    |
| 12      | Dual Magnum        | 0.5  | pt/a       | PRE         | A         | 100 | 100 | 99  | 98  | 92 | 89 |
|         | Outlook            | 12   | fl oz/a    | 2 leaf      | B         |     |     |     |     |    |    |
|         | Roundup PowerMax 3 | 30   | fl oz/a    | 2 leaf      | B         |     |     |     |     |    |    |
|         | AMS                | 17   | lb/100 gal | 2 leaf      | B         |     |     |     |     |    |    |
|         | Outlook            | 12   | fl oz/a    | 6-8 leaf    | C         |     |     |     |     |    |    |
|         | Roundup PowerMax 3 | 20   | fl oz/a    | 6-8 leaf    | C         |     |     |     |     |    |    |
|         | AMS                | 17   | lb/100 gal | 6-8 leaf    | C         |     |     |     |     |    |    |
| 13      | Roundup PowerMax 3 | 30   | fl oz/a    | 2 leaf      | B         | 0   | 0   | 77  | 72  | 56 | 15 |
|         | AMS                | 17   | lb/100 gal | 2 leaf      | B         |     |     |     |     |    |    |
|         | Ultra Blazer       | 16   | fl oz/a    | 6-8 leaf    | C         |     |     |     |     |    |    |
|         | Roundup PowerMax 3 | 20   | fl oz/a    | 6-8 leaf    | C         |     |     |     |     |    |    |
|         | AMS                | 17   | lb/100 gal | 6-8 leaf    | C         |     |     |     |     |    |    |
| 14      | Roundup PowerMax 3 | 30   | fl oz/a    | 2 leaf      | B         | 0   | 0   | 81  | 77  | 66 | 15 |
|         | AMS                | 17   | lb/100 gal | 2 leaf      | B         |     |     |     |     |    |    |
|         | Ultra Blazer       | 16   | fl oz/a    | 6-8 leaf    | C         |     |     |     |     |    |    |
|         | Warrant            | 3    | pt/a       | 6-8 leaf    | C         |     |     |     |     |    |    |
|         | Roundup PowerMax 3 | 20   | fl oz/a    | 6-8 leaf    | C         |     |     |     |     |    |    |
|         | AMS                | 17   | lb/100 gal | 6-8 leaf    | C         |     |     |     |     |    |    |
| 15      | Dual Magnum        | 0.5  | pt/a       | PRE         | A         | 99  | 100 | 99  | 97  | 90 | 79 |
|         | Roundup PowerMax 3 | 30   | fl oz/a    | 2 leaf      | B         |     |     |     |     |    |    |
|         | AMS                | 17   | lb/100 gal | 2 leaf      | B         |     |     |     |     |    |    |
|         | Ultra Blazer       | 16   | fl oz/a    | 6-8 leaf    | C         |     |     |     |     |    |    |
|         | Roundup PowerMax 3 | 20   | fl oz/a    | 6-8 leaf    | C         |     |     |     |     |    |    |
|         | AMS                | 17   | lb/100 gal | 6-8 leaf    | C         |     |     |     |     |    |    |
| 16      | Dual Magnum        | 0.5  | pt/a       | PRE         | A         | 98  | 99  | 99  | 100 | 95 | 91 |
|         | Roundup PowerMax 3 | 30   | fl oz/a    | 2 leaf      | B         |     |     |     |     |    |    |
|         | AMS                | 17   | lb/100 gal | 2 leaf      | B         |     |     |     |     |    |    |
|         | Ultra Blazer       | 16   | fl oz/a    | 6-8 leaf    | C         |     |     |     |     |    |    |
|         | Warrant            | 3    | pt/a       | 6-8 leaf    | C         |     |     |     |     |    |    |
|         | Roundup PowerMax 3 | 20   | fl oz/a    | 6-8 leaf    | C         |     |     |     |     |    |    |
|         | AMS                | 17   | lb/100 gal | 6-8 leaf    | C         |     |     |     |     |    |    |
| 17      | Ethofumesate       | 3    | pt/a       | PRE         | A         | 100 | 100 | 100 | 100 | 94 | 83 |
|         | Roundup PowerMax 3 | 30   | fl oz/a    | 2 leaf      | B         |     |     |     |     |    |    |
|         | AMS                | 17   | lb/100 gal | 2 leaf      | B         |     |     |     |     |    |    |
|         | Ultra Blazer       | 16   | fl oz/a    | 6-8 leaf    | C         |     |     |     |     |    |    |
|         | Roundup PowerMax 3 | 20   | fl oz/a    | 6-8 leaf    | C         |     |     |     |     |    |    |
|         | AMS                | 17   | lb/100 gal | 6-8 leaf    | C         |     |     |     |     |    |    |

Missing data estimates are included in columns: Average=1,2,3,4,5,6

Michigan State University

Waterhemp control with strategies using residual herbicides in sugarbeet

Trial ID: SB06-22 Cooperator Trial ID:  
 Protocol ID: SB06-22 Location: Shiawassee County Trial Year: 2022  
 Project ID: Project ID 2: Project ID 3:  
 Study Director: Sprague, Stiles, Powell Sponsor Contact:  
 Investigator (Creator): Christy Sprague

| Pest Code           |                    | AMATU         | AMATU       | AMATU       | AMATU      | AMATU       | AMATU      |      |      |      |       |
|---------------------|--------------------|---------------|-------------|-------------|------------|-------------|------------|------|------|------|-------|
| Rating Date         |                    | Jun-8-2022    | Jun-17-2022 | Jun-28-2022 | Jul-5-2022 | Jul-26-2022 | Sep-1-2022 |      |      |      |       |
| Rating Type         |                    | control       | control     | control     | control    | control     | control    |      |      |      |       |
| Rating Unit/Min/Max |                    | %, 0, 100     | %, 0, 100   | %, 0, 100   | %, 0, 100  | %, 0, 100   | %, 0, 100  |      |      |      |       |
| Trt-Eval Interval   |                    | 15 DA-A       | 7 DA-B      | 7 DA-C      | 14 DA-C    | 35 DA-C     | 72 DA-C    |      |      |      |       |
| Number of Decimals  |                    | 0             | 0           | 0           | 0          | 0           | 0          |      |      |      |       |
| Trt No.             | Treatment Name     | Rate          | Appl Unit   | Appl Timing | Appl Code  |             |            |      |      |      |       |
| 18                  | Ethofumesate       | 3 pt/a        |             | PRE         | A          | 100         | 100        | 100  | 100  | 99   | 98    |
|                     | Warrant            | 3 pt/a        |             | 2 leaf      | B          |             |            |      |      |      |       |
|                     | Roundup PowerMax 3 | 30 fl oz/a    |             | 2 leaf      | B          |             |            |      |      |      |       |
|                     | AMS                | 17 lb/100 gal |             | 2 leaf      | B          |             |            |      |      |      |       |
|                     | Roundup PowerMax 3 | 20 fl oz/a    |             | 6-8 leaf    | C          |             |            |      |      |      |       |
|                     | AMS                | 17 lb/100 gal |             | 6-8 leaf    | C          |             |            |      |      |      |       |
| 19                  | Ethofumesate       | 3 pt/a        |             | PRE         | A          | 100         | 100        | 100  | 100  | 99   | 99    |
|                     | Dual Magnum        | 1.33 pt/a     |             | 2 leaf      | B          |             |            |      |      |      |       |
|                     | Roundup PowerMax 3 | 30 fl oz/a    |             | 2 leaf      | B          |             |            |      |      |      |       |
|                     | AMS                | 17 lb/100 gal |             | 2 leaf      | B          |             |            |      |      |      |       |
|                     | Dual Magnum        | 1.33 pt/a     |             | 6-8 leaf    | C          |             |            |      |      |      |       |
|                     | Roundup PowerMax 3 | 20 fl oz/a    |             | 6-8 leaf    | C          |             |            |      |      |      |       |
|                     | AMS                | 17 lb/100 gal |             | 6-8 leaf    | C          |             |            |      |      |      |       |
| 20                  | Ethofumesate       | 2 pt/a        |             | 2 leaf      | B          | 0           | 72         | 71   | 64   | 35   | 20    |
|                     | Roundup PowerMax   | 32 fl oz/a    |             | 2 leaf      | B          |             |            |      |      |      |       |
|                     | Destiny HC         | 1.5 pt/a      |             | 2 leaf      | B          |             |            |      |      |      |       |
|                     | AMS                | 17 lb/100 gal |             | 2 leaf      | B          |             |            |      |      |      |       |
|                     | Ethofumesate       | 2 pt/a        |             | 6-8 leaf    | C          |             |            |      |      |      |       |
|                     | Roundup PowerMax   | 22 fl oz/a    |             | 6-8 leaf    | C          |             |            |      |      |      |       |
|                     | Destiny HC         | 1.5 pt/a      |             | 6-8 leaf    | C          |             |            |      |      |      |       |
|                     | AMS                | 17 lb/100 gal |             | 6-8 leaf    | C          |             |            |      |      |      |       |
|                     | LSD P=.05          |               |             |             |            | 1.0         | 2.5        | 6.5  | 6.3  | 9.8  | 9.3   |
|                     | Standard Deviation |               |             |             |            | 0.7         | 1.8        | 4.6  | 4.5  | 6.9  | 6.5   |
|                     | CV                 |               |             |             |            | 1.14        | 2.39       | 5.43 | 5.57 | 9.55 | 10.43 |

Missing data estimates are included in columns: Average=1,2,3,4,5,6