

Soybean Yields - US - Louisiana

| Treatment | Rate lb ai/a | Application Timing | Yield bu/acre |
|----------------|-----------------|-----------------------|------------------|
| Untreated | - | - | 39.8 |
| Pyraclostrobin | 0.10 | A | 44.6 |
| Pyraclostrobin | 0.10 | B | 47.8 |
| Pyraclostrobin | 0.15 | A | 46.1 |
| Pyraclostrobin | 0.15 | B | 47.6 |
| Azoxystrobin | 0.10 | B | 45.2 |

BASF Corp.

Variety: DP 5644 RR

Application Timing: A = Jul 16, 2002 (R1); B = Jul 29, 2002 (R3)

Spray Volume: 20 gpa

Comments:

Fungicides were applied only once at either R1 or R3

No significant disease present.

Soybean Yields - US - Iowa

| Treatment | Rate lb ai/a | Application Timing | Yield bu/acre |
|----------------|-----------------|-----------------------|------------------|
| Untreated | - | - | 29.9 |
| Pyraclostrobin | 0.10 | A | 35.5 |
| Pyraclostrobin | 0.10 | B | 31.1 |
| Pyraclostrobin | 0.15 | A | 34.0 |
| Pyraclostrobin | 0.15 | B | 34.8 |
| Azoxystrobin | 0.10 | B | 32.7 |

BASF Corp.

Variety: Atlas 5280

Application Timing: A = Jul 3, 2002 (R1); B = Aug 7, 2002 (R3)

Spray Volume: 20 gpa

Comments:

Fungicides were applied only once at either R1 or R3

No significant disease present.

Soybean Yields - US - Illinois

| Treatment | Rate lb ai/a | Application Timing | Yield bu/acre |
|----------------|-----------------|-----------------------|------------------|
| Untreated | - | - | 45.5 |
| Pyraclostrobin | 0.10 | A | 51.0 |
| Pyraclostrobin | 0.10 | B | 47.6 |
| Pyraclostrobin | 0.15 | A | 46.1 |
| Pyraclostrobin | 0.15 | B | 48.8 |
| Azoxystrobin | 0.10 | B | 48.3 |

BASF Corp.

Variety: Asgrow 3302

Application Timing: A = Aug 2, 2002 (R1); B = Aug 9, 2002 (R3)

Spray Volume: 20 gpa

Comments:

Fungicides were applied only once at either R1 or R3

No significant disease present.

Control of Soybean Rust in Brazil - Centro Oeste / Embrapa

| Treatment | Rate g ai/ha | % Defoliation 23-Apr-03 21 DAA | % Defoliation 03-May-03 31 DAA |
|----------------|-----------------|--------------------------------------|--------------------------------------|
| Untreated | - | 80.0 | 96.0 |
| Pyraclostrobin | 167.5 | 23.0 | 60.0 |
| Epoconazole | 50.0 | 18.0 | 66.0 |
| Metconazole | 54.0 | 25.0 | 61.0 |
| Triforine | 190.0 | 37.0 | 80.0 |
| | 285.0 | 31.0 | 80.0 |
| Difenoconazole | 75.0 | 29.0 | 70.0 |

BASF Corp.

Variety: Jiripoca

Applications: 1

Application Dates: April 2, 2003

Application Timing: Growth stage R4

Spray Volume: 150 liters/hectare

DAA = days after application

Comments:

Fungicides were applied only once at R4

Pyraclostrobin was the most active treatment.

Control of Soybean Rust in Brazil - Sorriso

| Treatment | Rate g ai/ha | % Defoliation 13 DAA |
|----------------|-----------------|-------------------------|
| Untreated | - | 97.0 |
| Epoxiconazole | 25.0 | 55.0 |
| Difenoconazole | 62.5 | 70.0 |
| Metconazole | 54.0 | 65.0 |
| Pyraclostrobin | 75.0 | 65.0 |

BASF Corp.

Variety: M-Soy 8400

Applications: 1

Application Timing: 1 = Growth stage R5.5 (curative)

Spray Volume: 150 liters/hectare

DAA = days after application

Comments:

Fungicides were applied curatively only once at R5.5

Soybean Yields - Brazil - Mato Grosso

| Treatment | Rate g ai/ha | Application Timing | Yield bu/A |
|------------------------------------|-----------------|-----------------------|---------------|
| Untreated | - | - | 48.0 |
| Pyraclostrobin + Epoiconazole | 66.5 25.0 | 1 | 55.3 |
| Pyraclostrobin | 66.5 | 1 | 60.1 |
| Azoxystrobin | 75.0 | 1 | 53.5 |
| Trifloxystrobin + Propiconazole | 62.5 62.5 | 1 | 57.5 |

BASF Corp.

Variety: Guapore

Applications: 1

Application Timing: 1 = at growth stage R3

Comments:

Fungicides were applied only once at R3

No significant disease present.

Pyraclostrobin provided the greatest yield increase.

Soybean Yields - Brazil - Minas Gerais

| Treatment | Rate g ai/ha | Application Timing | Yield bu/A |
|---------------------------------|-----------------|-----------------------|---------------|
| Untreated | - | - | 42.1 |
| Pyraclostrobin + Epoconazole | 66.5 25.0 | 1 | 45.0 |
| Pyraclostrobin + Epoconazole | 66.5 25.0 | 2 | 44.5 |
| Pyraclostrobin | 66.5 | 1 | 43.4 |
| Pyraclostrobin | 66.5 | 2 | 46.5 |
| Azoxystrobin | 75.0 | 1 | 42.1 |
| Azoxystrobin | 75.0 | 2 | 41.6 |

BASF Corp.

Variety: Vencedora

Applications: 1

Application Timing: 1 = 1/11/03 at growth stage R3, 2 = 2/3/03 at growth stage R 5.4

Spray Volume: 200 liters/hectare

Comments:

Fungicides were applied only once at either R3 or R5.4

No significant disease present.

Pyraclostrobin provided the greatest yield increase.

Control of Soybean Rust in Paraguay - Jesus

| Treatment | Rate g ai/ha | % Severity 09-Apr-03 19 DAA | % Defoliation 09-Apr-03 19 DAA | Yield Kg/plot 6.4 sq M |
|-----------------|-----------------|-----------------------------------|--------------------------------------|------------------------------|
| Untreated | - | 40.0 a | 90.0 a | 1.52 |
| Pyraclostrobin | 50.0 | 13.8 f | 60.0 h | 2.16 |
| Trifloxystrobin | 80.0 | 18.0 e | 62.5 g | 1.88 |
| Azoxystrobin | 50.0 | 21.3 d | 67.5 f | 1.91 |
| Difenoconazole | 75.0 | 26.3 c | 80.0 c | 1.73 |
| Metconazole | 45.0 | 25.0 c | 73.8 d | 1.68 |
| LSD (P=0.05) | | | | 0.28 |

BASF Corp.

Variety: RR 8.2

Applications: 1

Application Dates: Feb 18, 2003

Application Timing: Growth stage R3-R4

Spray Volume: 200 liters/hectare

DAA = days after application

Comments:

Fungicides were applied only once at R3-R4

Pyraclostrobin was the most active treatment.

Control of Soybean Rust in Paraguay - Jesus

| Treatment | Rate g ai/ha | % Severity 09-Apr-03 22 DAA | % Defoliation 09-Apr-03 22 DAA | Yield Kg/plot 6.4 sq M |
|-----------------|-----------------|-----------------------------------|--------------------------------------|------------------------------|
| Untreated | - | 52.5 a | 90.0 a | 1.77 |
| Pyraclostrobin | 50.0 | 20.0 d | 52.5 fg | 2.12 |
| Trifloxystrobin | 80.0 | 27.5 c | 57.5 f | 2.08 |
| Azoxystrobin | 50.0 | 28.8 | 65.0 e | 2.13 |
| Difenoconazole | 75.0 | 37.5 b | 77.5 bc | 1.91 |
| Metconazole | 45.0 | 31.3 c | 72.5 cd | 2.05 |
| LSD (P=0.05) | | | | 0.33 |

BASF Corp.

Variety: Nidera 8000

Applications: 1

Application Dates: Feb 15, 2003

Application Timing: Growth stage R3-R4

Spray Volume: 200 liters/hectare

DAA = days after application

Comments:

Fungicides were applied only once at R3-R4

Pyraclostrobin was the most active treatment.

Control of Soybean Rust in Paraguay - Pirapo

| Treatment | Rate g ai/ha | % Severity 07-Mar-03 31 DAA | % Defoliation 19-Mar-03 44 DAA | Yield kg/plot 6.4 sq M |
|-----------------|-----------------|-----------------------------------|--------------------------------------|------------------------------|
| Untreated | - | 10.0 a | 87.5 a | 2.13 |
| Pyraclostrobin | 50.0 | 0 c | 57.5 f | 2.54 |
| Trifloxystrobin | 80.0 | 0 c | 68.8 e | 2.33 |
| Azoxystrobin | 50.0 | 0 c | 71.3 de | 2.44 |
| Difenoconazole | 75.0 | 0 c | 78.8 bc | 2.26 |
| Metconazole | 45.0 | 0 c | 75.0 cd | 2.34 |
| LSD (P=0.05) | | | | 0.27 |

BASF Corp.

Variety: Mercedes 70

Applications: 1

Application Dates: Feb 3, 2003

Application Timing: Growth stage R3-R4

Spray Volume: 200 liters/hectare

DAA = days after application

Comments:

Fungicides were applied only once at R3-R4

Pyraclostrobin was the most active treatment.

Soybean Yields - Brazil - Minas Gerais

| Treatment | Rate g ai/ha | Application Timing | Yield |
|---------------------------------|-----------------|-----------------------|-------|
| | | | bu/A |
| Untreated | - | - | 34.4 |
| Pyraclostrobin + Epoconazole | 66.5 25.0 | 1 | 39.1 |
| Pyraclostrobin + Epoconazole | 66.5 25.0 | 2 | 38.0 |
| Pyraclostrobin | 66.5 | 1 | 37.9 |
| Pyraclostrobin | 66.5 | 2 | 37.1 |
| Azoxystrobin | 75.0 | 1 | 34.9 |
| Azoxystrobin | 75.0 | 2 | 35.5 |

BASF Corp.

Variety: CS201 Splendor

Applications: 1

Application Timing: 1 = 1/24/03 at growth stage R3, 2 = 2/19/03 at growth stage R 5.4

Spray Volume: 200 liters/hectare

Comments:

Fungicides were applied only once at either R3 or R5.4

No significant disease present.

Control of Soybean Rust in Paraguay - Pirapo

| Treatment | Rate g ai/ha | % Severity 21-Apr-03 34 DAA | % Defoliation 21-Apr-03 34 DAA | Yield Kg/plot 6.4 sq M |
|-----------------|-----------------|-----------------------------------|--------------------------------------|------------------------------|
| Untreated | - | 50.0 a | 90.0 a | 1.30 |
| Pyraclostrobin | 50.0 | 15.0 g | 60.0 g | 1.58 |
| Trifloxystrobin | 80.0 | 15.0 g | 70.0 e | 1.61 |
| Azoxystrobin | 50.0 | 17.5 f | 73.8 d | 1.54 |
| Difenoconazole | 75.0 | 30.0 c | 80.0 c | 1.65 |
| Metconazole | 45.0 | 25.0 d | 75.0 d | 1.68 |
| LSD (P=0.05) | | | | 0.32 |

BASF Corp.

Variety: Nidera 9000

Applications: 1

Application Dates: Mar 18, 2003

Application Timing: Growth stage R3-R4

Spray Volume: 200 liters/hectare

DAA = days after application

Comments:

Fungicides were applied only once at R3-R4

Pyraclostrobin was the most active treatment.