

Table 9: Application (Continued)

Site Code	Plot	Test Compound	App No.	Equipment Type	Nozzle Type	Nozzle Tip No.	Nozzle No.	Spacing (in.)	Pressure Source	Approx. Pressure (psi)	
AR02 (cont)	14 (cont)	Clethodim (5X)	1	Boom Sprayer	Hollow Cone	TeeJet TX6	8	18	CO ₂	45	
		Esfenvalerate (1X)	1	Boom Sprayer	Hollow Cone	TeeJet TX6	8	18	CO ₂	45	
		Esfenvalerate (1X)	2	Boom Sprayer	Hollow Cone	TeeJet TX6	8	18	CO ₂	45	
		Esfenvalerate (1X)	3	Boom Sprayer	Hollow Cone	TeeJet TX6	8	18	CO ₂	45	
			Esfenvalerate (1X)	4	Boom Sprayer	Hollow Cone	TeeJet TX6	8	18	CO ₂	45
			Carbofuran (5X)	1	Boom Sprayer	Hollow Cone	TeeJet TX6	8	18	CO ₂	45
			Carbofuran (5X)	2	Boom Sprayer	Hollow Cone	TeeJet TX6	8	18	CO ₂	45
			Clethodim (1X)	1	Boom Sprayer	Hollow Cone	TeeJet TX6	8	18	CO ₂	45
		15	Esfenvalerate (5X)	1	Boom Sprayer	Hollow Cone	TeeJet TX6	8	18	CO ₂	45
	Esfenvalerate (5X)		2	Boom Sprayer	Hollow Cone	TeeJet TX6	8	18	CO ₂	45	
	Esfenvalerate (5X)		3	Boom Sprayer	Hollow Cone	TeeJet TX6	8	18	CO ₂	45	
	Esfenvalerate (5X)		4	Boom Sprayer	Hollow Cone	TeeJet TX6	8	18	CO ₂	45	

Field Report

Test Compounds in Rice, Wheat and Soybean RAC

Table 9: Application (Continued)

Site Code	Plot	Test Compound	App No.	Equipment Type	Nozzle Type	Nozzle Tip No.	Nozzle No.	Spacing (in.)	Pressure Source	Approx. Pressure (psi)	
IA01	17	Carbofuran (1X)	1	3 Point Side Boom	Flat Fan	TeeJet 110-02	9	20	CO ₂	30	
		Carbofuran (1X)	2	3 Point Side Boom	Flat Fan	TeeJet 110-02	9	20	CO ₂	30	
		Clethodim (5X)	1	Backpack Sprayer	Flat Fan	TeeJet 110-02	6	20	CO ₂	34	
		Esfenvalerate (1X)	1	Backpack Sprayer	Flat Fan	TeeJet 110-02	6	20	CO ₂	31	
		Esfenvalerate (1X)	2	Backpack Sprayer	Flat Fan	TeeJet 110-02	6	20	CO ₂	30	
		Esfenvalerate (1X)	3	Backpack Sprayer	Flat Fan	TeeJet 110-02	6	20	CO ₂	30	
	18	17	Esfenvalerate (1X)	4	Backpack Sprayer	Flat Fan	TeeJet 110-02	6	20	CO ₂	30
			Carbofuran (5X)	1	3 Point Side Boom	Flat Fan	TeeJet 110-02	9	20	CO ₂	30
		18	Carbofuran (5X)	2	3 Point Side Boom	Flat Fan	TeeJet 110-02	9	20	CO ₂	30
			Clethodim (1X)	1	Backpack Sprayer	Flat Fan	TeeJet 110-02	6	20	CO ₂	34
			Esfenvalerate (5X)	1	Backpack Sprayer	Flat Fan	TeeJet 110-02	6	20	CO ₂	31
			Esfenvalerate (5X)	2	Backpack Sprayer	Flat Fan	TeeJet 110-02	6	20	CO ₂	30

Table 9: Application (Continued)

Site Code	Plot	Test Compound	App No.	Equipment Type	Nozzle Type	Nozzle Tip No.	Nozzle No.	Spacing (in.)	Pressure Source	Approx. Pressure (psi)
IA01 (cont)	18 (cont)	Esfenvalerate (5X)	3	Backpack Sprayer	Flat Fan	TeeJet 110-02	6	20	CO ₂	30
		Esfenvalerate (5X)	4	Backpack Sprayer	Flat Fan	TeeJet 110-02	6	20	CO ₂	30

Table 10: Product Rate Determination

Rice Site Code	Test Substance & Application Date	Plot	App. No.	Volume			Total Pass Time (sec)	Calibrated Spray Rate (mL/sec)	Spray Mix Applied To Plot (mL) ¹	Treated Area (Acres)	Spray Rate (GPA) ²	Rate	
				Test Substance (mL)	Carrier (mL)	Total Mixture (mL)						mL/A ³	lb ai/A ^{4,5}
AR01	Mancozeb IX 05/16/05	2	1	5.7	22.8	28.5	This table does not apply to this treatment. Seed was treated at a rate of 0.14 lb ai/A. All treated seed was planted.					0.14	100
AR01	Malathion 5X 08/22/05	2	1	328	2672	3000	27.21	1910.1	0.0275	18.3	7573.0	10.0	100
AR01	Malathion 5X 08/29/05	2	2	326	2674	3000	27.24	1920.4	0.0275	18.4	7568.0	10.0	100
AR01	Malathion 5X 09/05/05	2	3	326	2674	3000	27.20	1917.6	0.0275	18.4	7568.0	10.0	100
AR01	Malathion 5X 09/12/05	2	4	326	2674	3000	27.22	1919.01	0.0275	18.4	7568.0	10.0	100
AR01	Malathion 5X 09/19/05	2	5	326	2674	3000	27.21	1918.3	0.0275	18.4	7568.0	10.0	100
AR01	Carbofuran 5X 07/28/05	2	1	748g			This table does not apply to this treatment. Granules were measured out to 3 lb ai/A. All granules were applied to the plot.						

¹Spray Mix Applied to Plot (mL) = Total Pass Times (sec) x Calibrated Spray Rate (mL/sec)

²Spray Rate (GPA) = $\frac{\text{Spray Mix Applied to Plot (mL)}}{3785 \text{ mL/gal}} \times \frac{1}{\text{Treated Area (acres)}}$

³Actual Rate mL/A = $\frac{\text{Test Substance in Spray Mixture (mL)}}{\text{Total Mixture Volume (mL)}} \times \text{Actual Spray Rate (GPA)} \times \frac{3785 \text{ mL}}{1 \text{ gal}}$

⁴Actual Rate lb ai/A = $\frac{\text{Actual Rate mL}}{\text{Acre}} \times \frac{5 \text{ lb ai}}{\text{gallon}} \times \frac{1 \text{ gallon}}{3785 \text{ mL}}$

⁵To convert lb ai/A to kg ai/ha, multiply lbs ai/A x 1.121

⁶Percent of Target = $\frac{\text{Actual Rate (lb ai/A)}}{\text{Target Rate (lb ai/A)}} \times 100$

⁷Rice, Malathion 5X rate = 10 lb ai/A

Table 10: Product Rate Determination (Continued)

Rice Site Code	Test Substance & Application Date	Plot	App. No.	Volume			Total Pass Time (sec)	Calibrated Spray Rate (mL/sec)	Spray Mix Applied To Plot (mL) ¹	Treated Area (Acres)	Spray Rate (GPA) ²	Rate		
				Test Substance (mL)	Carrier (mL)	Total Mixture (mL)						mL/A ³	lb ai/A ^{4,5}	% of Target ^{6,7}
AR01	Mancozeb 5X 05/16/05	3	1	28.5	3.5	32.0	This table does not apply to this treatment. Seed was treated at a rate of 0.7 lb ai/A. All treated seed was planted.				0.7	100		
AR01	Malathion 1X 08/22/05	3	1	66	2934	3000		27.19	1908.7	0.0275	18.3	1523.8	2.0	100
AR01	Malathion 1X 08/29/05	3	2	65	2935	3000		27.23	1919.7	0.0275	18.4	1508.9	2.0	100
AR01	Malathion 1X 09/05/05	3	3	65	2935	3000		27.20	1917.6	0.0275	18.4	1508.9	2.0	100
AR01	Malathion 1X 09/12/05	3	4	65	2935	3000		27.18	1916.2	0.0275	18.4	1508.9	2.0	100
AR01	Malathion 1X 09/19/05	3	5	65	2935	3000		27.19	1916.9	0.0275	18.4	1508.9	2.0	100

¹Spray Mix Applied to Plot (mL) = Total Pass Times (sec) x Calibrated Spray Rate (mL/sec)

²Spray Rate (GPA) = $\frac{\text{Spray Mix Applied to Plot (mL)}}{3785 \text{ mL/gal}} \times \frac{1}{\text{Treated Area (acres)}}$

³Actual Rate mL/A = $\frac{\text{Test Substance in Spray Mixture (mL)}}{\text{Total Mixture Volume (mL)}} \times \text{Actual Spray Rate (GPA)} \times \frac{3785 \text{ mL}}{1 \text{ gal}}$

⁴Actual Rate lb ai/A = $\frac{\text{Actual Rate mL}}{\text{Acre}} \times \frac{5 \text{ lb ai}}{\text{gallon}} \times \frac{1 \text{ gallon}}{3785 \text{ mL}}$

⁵To convert lb ai/A to kg ai/ha, multiply lbs ai/A x 1.121

⁶Percent of Target = $\frac{\text{Actual Rate (lb ai/A)}}{\text{Target Rate (lb ai/A)}} \times 100$

⁷Rice, Malathion 1X rate = 2 lb ai/A

Table 10: Product Rate Determination (Continued)

Rice Site Code	Test Substance & Application Date	Plot	App. No.	Volume			Total Pass Time (sec)	Calibrated Spray Rate (mL/sec)	Spray Mix Applied To Plot (mL) ¹	Treated Area (Acres)	Spray Rate (GPA) ²	Rate		
				Test Substance (mL)	Carrier (mL)	Total Mixture (mL)						mL/A ³	lb ai/A ^{4,5}	% of Target ^{6,7}
CA01	Mancozeb 1X 05/19/05	5	1	4.68g								0.36	100	
CA01	Malathion 5X 08/19/05	5	1	355	5322.5	5677.5	15.17	115	1744.6	0.0230	20	4733.3	10.0	
CA01	Malathion 5X 08/30/05	5	2	355	5322.5	5677.5	15.18	115	1745.7	0.0230	20.1	4757.0	10.1	
CA01	Malathion 5X 09/09/05	5	3	355	5322.5	5677.5	15.21	115	1749.2	0.0230	20.1	4757.0	10.1	
CA01	Malathion 5X 09/19/05	5	4	355	5322.5	5677.5	15.09	116	1750.4	0.0230	20.1	4757.0	10.1	
CA01	Malathion 5X 09/29/05	5	5	355	5322.5	5677.5	15.22	116	1765.5	0.0230	20.3	4804.3	10.2	
CA01	Carbofuran 5X 08/07/05	5	1	627g									3	100

This table does not apply to this treatment. Seed was treated at a rate of 0.36 lb ai/A. All treated seed was planted.

This table does not apply to this treatment. Granules were measured out to 3 lb ai/A. All granules were applied to the plot.

¹Spray Mix Applied to Plot (mL) = Total Pass Times (sec) x Calibrated Spray Rate (mL/sec)

²Spray Rate (GPA) = $\frac{\text{Spray Mix Applied to Plot (mL)}}{3785 \text{ mL/gal}} \times \frac{1}{\text{Treated Area (acres)}}$

³Actual Rate mL/A = $\frac{\text{Test Substance in Spray Mixture (mL)}}{\text{Total Mixture Volume (mL)}} \times \text{Actual Spray Rate (GPA)} \times \frac{3785 \text{ mL}}{1 \text{ gal}}$

⁴Actual Rate lb ai/A = $\frac{\text{Actual Rate mL}}{\text{Acre}} \times \frac{8 \text{ lb ai}}{\text{gallon}} \times \frac{1 \text{ gallon}}{3785 \text{ mL}}$

⁵Rice, Malathion 5X rate = 10 lb ai/A

⁶Percent of Target = $\frac{\text{Actual Rate (lb ai/A)}}{\text{Target Rate (lb ai/A)}} \times 100$

⁷To convert lb ai/A to kg ai/ha, multiply lbs ai/A x 1.121

Table 10: Product Rate Determination (Continued)

Rice Site Code	Test Substance & Application Date	Plot	App. No.	Volume			Total Pass Time (sec)	Calibrated Spray Rate (mL/sec)	Spray Mix Applied To Plot (mL) ¹	Treated Area (Acres)	Spray Rate (GPA) ²	Rate		
				Test Substance (mL)	Carrier (mL)	Total Mixture (mL)						mL/A ³	lb ai/A ^{4,5}	% of Target ^{6,7}
CA01	Mancozeb 5X 05/19/05	6	1	0.826 oz			This table does not apply to this treatment. Seed was treated at a rate of 1.8 lb ai/A. All treated seed was planted.						1.80	100
CA01	Malathion 1X 08/19/05	6	1	71	5606.5	5677.5	15.20	115	1748.0	0.0230	20.1	950.4	2.01	100
CA01	Malathion 1X 08/30/05	6	2	71	5606.5	5677.5	15.07	115	1733.1	0.0230	19.9	942.3	1.99	99.6
CA01	Malathion 1X 09/09/05	6	3	71	5606.5	5677.5	15.16	115	1743.4	0.0230	20.0	947.9	2.00	100
CA01	Malathion 1X 09/19/05	6	4	71	5606.5	5677.5	15.00	116	1740.0	0.0230	20.0	946.1	2.00	100
CA01	Malathion 1X 09/29/05	6	5	71	5606.5	5677.5	15.10	116	1751.6	0.0230	20.1	952.4	2.01	101

¹Spray Mix Applied to Plot (mL) = Total Pass Times (sec) x Calibrated Spray Rate (mL/sec)

²Spray Rate (GPA) = $\frac{\text{Spray Mix Applied to Plot (mL)}}{3785 \text{ mL/gal}} \times \frac{1}{\text{Treated Area (acres)}}$

³Actual Rate mL/A = $\frac{\text{Test Substance in Spray Mixture (mL)}}{\text{Total Mixture Volume (mL)}} \times \text{Actual Spray Rate (GPA)} \times \frac{3785 \text{ mL}}{1 \text{ gal}}$

⁴Actual Rate lb ai/A = $\frac{\text{Actual Rate mL}}{\text{Acres}} \times \frac{8 \text{ lb ai}}{\text{gallon}} \times \frac{1 \text{ gallon}}{3785 \text{ mL}}$

⁵To convert lb ai/A to kg ai/ha, multiply lbs ai/A x 1.121

⁶Percent of Target = $\frac{\text{Actual Rate (lb ai/A)}}{\text{Target Rate (lb ai/A)}} \times 100$

⁷Rice, Malathion 1X rate = 2 lb ai/A

Table 10: Product Rate Determination (Continued)

Wheat Site Code	Test Substance & Application Date	Plot No.	Volume			Total Pass Time (sec)	Calibrated Spray Rate (mL/sec)	Spray Mix Applied To Plot (mL) ¹	Treated Area (Acres)	Spray Rate (GPA) ²	Rate		
			Test Substance (mL)	Carrier (mL)	Total Mixture (mL)						mL/A ³	Actual lb ai/A ^{4,5}	% of Target ^{6,7}
ND01	Carbofuran IX 08/05/05	8	21.9	6978	7000	43.08	113.3	4881.0	0.0643	20.1	238.0	0.25	100
ND01	Carbofuran IX 08/12/05	8	21.9	6978	7000	42.18	114	4808.5	0.0643	19.8	234.5	0.25	100

¹Spray Mix Applied to Plot (mL) = Total Pass Times (sec) x Calibrated Spray Rate (mL/sec)

²Spray Rate (GPA) = $\frac{\text{Spray Mix Applied to Plot (mL)}}{3785 \text{ mL/gal}} \times \frac{1}{\text{Treated Area (acres)}}$

³Actual Rate mL/A = $\frac{\text{Test Substance in Spray Mixture (mL)}}{\text{Total Mixture Volume (mL)}} \times \text{Actual Spray Rate (GPA)} \times \frac{3785 \text{ mL}}{1 \text{ gal}}$

⁴Actual Rate lb ai/A Carbofuran = $\frac{\text{Actual Rate mL}}{\text{Acre}} \times \frac{4 \text{ lb ai}}{\text{gallon}} \times \frac{1 \text{ gallon}}{3785 \text{ mL}}$

⁵To convert lb ai/A to kg ai/ha, multiply lbs ai/A x 1.121

⁶Percent of Target = $\frac{\text{Actual Rate (lb ai/A)}}{\text{Target Rate (lb ai/A)}} \times 100$

⁷Wheat Carbofuran IX rate = 0.25 lb ai/A

Table 10: Product Rate Determination (Continued)

Wheat Site Code	Test Substance & Application Date	Plot	App. No.	Volume			Total Pass Time (sec)	Calibrated Spray Rate (mL/sec)	Spray Mix Applied To Plot (mL) ¹	Treated Area (Acres)	Spray Rate (GPA) ²	Rate		
				Test Substance (grams)	Carrier (mL)	Total Mixture (mL)						Actual lb ai/A ^{4,5}	% of Target ^{6,7}	
ND01	Mancozeb 5X 07/24/05	8	1	447.6	7000	7000	43.68	110.7	4835.4	0.0643	19.9	10.61	7.96	99.4
ND01	Mancozeb 5X 07/31/05	8	2	447.6	7000	7000	44.00	111.25	4895.0	0.0643	20.1	10.72	8.04	101
ND01	Mancozeb 5X 08/07/05	8	3	447.6	7000	7000	42.84	112.5	4819.5	0.0643	19.8	10.56	7.92	99.0

¹Spray Mix Applied to Plot (mL) = Total Pass Times (sec) x Calibrated Spray Rate (mL/sec)

²Spray Rate (GPA) = $\frac{\text{Spray Mix Applied to Plot (mL)}}{3785 \text{ mL/gal}} \times \frac{1}{\text{Treated Area (acres)}}$

³Actual Rate lb/A = $\frac{\text{Product Rate (lb)}}{\text{Acre}} \times \frac{\text{Actual Spray Rate (GPA)}}{\text{Target Spray Rate}}$

Actual Rate lb ai/A = $\frac{\text{Actual Rate lb}}{\text{Acre}} \times 75\%$

⁴To convert lb ai/A to kg ai/ha, multiply lbs ai/A x 1.121

⁶Percent of Target = $\frac{\text{Actual Rate (lb ai/A)}}{\text{Target Rate (lb ai/A)}} \times 100$

Wheat Mancozeb 5X rate = 8 lb ai/A

Table 10: Product Rate Determination (Continued)

Wheat Site Code	Test Substance & Application Date	Plot	App. No.	Volume			Total Pass Time (sec)	Calibrated Spray Rate (mL/sec)	Spray Mix Applied To Plot (mL) ¹	Treated Area (Acres)	Spray Rate (GPA) ²	Rate		
				Test Substance (mL)	Carrier (mL)	Total Mixture (mL)						mL/A ³	Actual lb ai/A ^{4,5}	% of Target ^{6,7}
ND01	Carbofuran 5X 08/05/05	9	1	109.4	6891	7000	43.16	113.3	4890.0	0.0643	20.1	1189.0	1.26	101
ND01	Carbofuran 5X 08/12/05	9	2	109.4	6891	7000	42.53	114	4848.4	0.0643	19.9	1177.2	1.24	99

¹Spray Mix Applied to Plot (mL) = Total Pass Times (sec) x Calibrated Spray Rate (mL/sec)

²Spray Rate (GPA) = $\frac{\text{Spray Mix Applied to Plot (mL)}}{3785 \text{ mL/gal}} \times \frac{1}{\text{Treated Area (acres)}}$

³Actual Rate mL/A = $\frac{\text{Test Substance in Spray Mixture (mL)}}{\text{Total Mixture Volume (mL)}} \times \text{Actual Spray Rate (GPA)} \times \frac{3785 \text{ mL}}{1 \text{ gal}}$

⁴Actual Rate lb ai/A Carbofuran = $\frac{\text{Actual Rate mL}}{\text{Acres}} \times \frac{4 \text{ lb ai}}{\text{gallon}} \times \frac{1 \text{ gallon}}{3785 \text{ mL}}$

⁵To convert lb ai/A to kg ai/ha, multiply lbs ai/A x 1.121

⁶Percent of Target = $\frac{\text{Actual Rate (lb ai/A)}}{\text{Target Rate (lb ai/A)}} \times 100$

⁷Wheat Carbofuran 5X rate = 1.25 lb ai/A

Table 10: Product Rate Determination (Continued)

Wheat Site Code	Test Substance & Application Date	Plot	App. No.	Volume			Total Pass Time (sec)	Calibrated Spray Rate (mL/sec)	Spray Mix Applied To Plot (mL) ¹	Treated Area (Acres)	Spray Rate (GPA) ²	Rate		
				Test Substance (grams)	Carrier (mL)	Total Mixture (mL)						lb ai/A ^{4,5}	% of Target ^{6,7}	
ND01	Mancozeb 1X 07/24/05	9	1	89.6	7000	7000	43.50	110.7	4815.5	0.0643	19.8	2.01	1.51	99.0
ND01	Mancozeb 1X 07/31/05	9	2	89.6	7000	7000	43.73	111.3	4865.0	0.0643	20.0	2.13	1.60	100
ND01	Mancozeb 1X 08/07/05	9	3	89.6	7000	7000	42.28	112.5	4756.5	0.0643	19.5	2.08	1.56	97.5

¹Spray Mix Applied to Plot (mL) = Total Pass Times (sec) x Calibrated Spray Rate (mL/sec)

²Spray Rate (GPA) = $\frac{\text{Spray Mix Applied to Plot (mL)}}{3785 \text{ mL/gal}} \times \frac{1}{\text{Treated Area (acres)}}$

³Actual Rate lb/A = $\frac{\text{Product Rate (lb)}}{\text{Acre}} \times \frac{\text{Actual Spray Rate (GPA)}}{\text{Target Spray Rate}}$

Actual Rate lb ai/A Mancozeb = $\frac{\text{Actual Rate lb}}{\text{Acre}} \times 75\%$

⁵To convert lb ai/A to kg ai/ha, multiply lbs ai/A x 1.121

⁶Percent of Target = $\frac{\text{Actual Rate (lb ai/A)}}{\text{Target Rate (lb ai/A)}} \times 100$

⁷Wheat Mancozeb 1X rate = 1.6 lb ai/A

Table 10: Product Rate Determination (Continued)

Wheat Site Code	Test Substance & Application Date	Plot	App. No.	Volume			Total Pass Time (sec)	Calibrated Spray Rate (mL/sec)	Spray Mix Applied To Plot (mL) ¹	Treated Area (Acres)	Spray Rate (GPA) ²	Rate		
				Test Substance (mL)	Carrier (mL)	Total Mixture (mL)						mL/A ³	Actual lb ai/A ^{4,5}	% of Target ^{6,7}
MO01	Carbofuran IX 06/18/05	11	1	18	6630	6648	80.56	76.1	6130.6	0.0689	23.5	240.8	0.25	100
MO01	Carbofuran IX 06/29/05	11	2	18	5660	5678	91.06	55.7	5072.0	0.0689	19.4	232.8	0.25	100

¹Spray Mix Applied to Plot (mL) = Total Pass Times (sec) x Calibrated Spray Rate (mL/sec)

²Spray Rate (GPA) = $\frac{\text{Spray Mix Applied to Plot (mL)}}{3785 \text{ mL/gal}} \times \frac{1}{\text{Treated Area (acres)}}$

³Actual Rate mL/A = $\frac{\text{Test Substance in Spray Mixture (mL)}}{\text{Total Mixture Volume (mL)}} \times \text{Actual Spray Rate (GPA)} \times \frac{3785 \text{ mL}}{1 \text{ gal}}$

⁴Actual Rate lb ai/A Carbofuran = $\frac{\text{Actual Rate mL}}{\text{Acre}} \times \frac{4 \text{ lb ai}}{\text{gallon}} \times \frac{1 \text{ gallon}}{3785 \text{ mL}}$

⁵To convert lb ai/A to kg ai/ha, multiply lbs ai/A x 1.121

⁶Percent of Target = $\frac{\text{Actual Rate (lb ai/A)}}{\text{Target Rate (lb ai/A)}} \times 100$

⁷Wheat Carbofuran IX rate = 0.25 lb ai/A

Table 10: Product Rate Determination (Continued)

Wheat Site Code	Test Substance & Application Date	Plot	App. No.	Volume			Total Pass Time (sec)	Calibrated Spray Rate (mL/sec)	Spray Mix Applied To Plot (mL) ¹	Treated Area (Acres)	Spray Rate (GPA) ²	Rate		
				Test Substance (grams)	Carrier (mL)	Total Mixture (mL)						Actual lb ai/A ^{4,5}	% of Target ^{6,7}	
MO01	Mancozeb 5X 06/11/05	11	1	363.3	6980	6980	82.83	76.8	6361.3	0.0689	24.4	10.58	7.94	99.2
MO01	Mancozeb 5X 06/18/05	11	2	363.3	6650	6650	80.20	76.1	6103.2	0.0689	23.4	10.67	8.00	100
MO01	Mancozeb 5X 06/24/05	11	3	363.2	6640	6640	79.33	76.1	6037.0	0.0689	23.1	10.56	7.92	98.9

¹Spray Mix Applied to Plot (mL) = Total Pass Times (sec) x Calibrated Spray Rate (mL/sec)

²Spray Rate (GPA) = $\frac{\text{Spray Mix Applied to Plot (mL)}}{3785 \text{ mL/gal}} \times \frac{1}{\text{Treated Area (acres)}}$

³Actual Rate lb/A = $\frac{\text{Product Rate (lb)}}{\text{Acre}} \times \frac{\text{Actual Spray Rate (GPA)}}{\text{Target Spray Rate}}$

Actual Rate lb ai/A = $\frac{\text{Actual Rate lb}}{\text{Acre}} \times 75\%$

⁴To convert lb ai/A to kg ai/ha, multiply lbs ai/A x 1.121

⁶Percent of Target = $\frac{\text{Actual Rate (lb ai/A)}}{\text{Target Rate (lb ai/A)}} \times 100$

⁷Wheat Mancozeb 5X rate = 8 lb ai/A

Table 10: Product Rate Determination (Continued)

Wheat Site Code	Test Substance & Application Date	Plot	App. No.	Volume			Total Pass Time (sec)	Calibrated Spray Rate (mL/sec)	Spray Mix Applied To Plot (mL) ¹	Treated Area (Acres)	Spray Rate (GPA) ²	Rate		
				Test Substance (mL)	Carrier (mL)	Total Mixture (mL)						mL/A ³	Actual lb ai/A ^{4,5}	% of Target ^{6,7}
MO01	Carbofuran 5X 06/18/05	12	1	89	6550	6639	80.49	76.1	6125.3	0.0689	23.5	1192.4	1.26	101
MO01	Carbofuran 5X 06/29/05	12	2	89	5590	5679	90.34	55.7	5031.9	0.0689	19.3	1144.8	1.21	97

¹Spray Mix Applied to Plot (mL) = Total Pass Times (sec) x Calibrated Spray Rate (mL/sec)

²Spray Rate (GPA) = $\frac{\text{Spray Mix Applied to Plot (mL)}}{3785 \text{ mL/gal}} \times \frac{1}{\text{Treated Area (acres)}}$

³Actual Rate mL/A = $\frac{\text{Test Substance in Spray Mixture (mL)}}{\text{Total Mixture Volume (mL)}} \times \text{Actual Spray Rate (GPA)} \times \frac{3785 \text{ mL}}{1 \text{ gal}}$

⁴Actual Rate lb ai/A Carbofuran = $\frac{\text{Actual Rate mL}}{\text{Acre}} \times \frac{4 \text{ lb ai}}{\text{gallon}} \times \frac{1 \text{ gallon}}{3785 \text{ mL}}$

⁵To convert lb ai/A to kg ai/ha, multiply lbs ai/A x 1.121

⁶Percent of Target = $\frac{\text{Actual Rate (lb ai/A)}}{\text{Target Rate (lb ai/A)}} \times 100$

⁷Wheat Carbofuran 5X rate = 1.25 lb ai/A

Table 10: Product Rate Determination (Continued)

Wheat Site Code	Test Substance & Application Date	Plot	App. No.	Volume			Total Pass Time (sec)	Calibrated Spray Rate (lb/sec)	Spray Mix Applied To Plot (mL) ¹	Treated Area (Acres)	Spray Rate (GPA) ²	Rate		% of Target ^{6,7}
				Test Substance (grams)	Carrier (mL)	Total Mixture (mL)						Actual lb ai/A ^{4,5}	lb/A ³	
MO01	Mancozeb 1X 06/11/05	12	1	72.6	6980	6980	80.83	76.8	6207.7	0.0689	23.8	2.06	1.55	96.7
MO01	Mancozeb 1X 06/18/05	12	2	72.6	6650	6650	80.18	76.1	6101.7	0.0689	23.4	2.13	1.60	100
MO01	Mancozeb 1X 06/24/05	12	3	72.6	6640	6640	80.91	76.1	6157.3	0.0689	23.6	2.15	1.61	101

¹Spray Mix Applied to Plot (mL) = Total Pass Times (sec) x Calibrated Spray Rate (mL/sec)

²Spray Rate (GPA) = $\frac{\text{Spray Mix Applied to Plot (mL)}}{3785 \text{ mL/gal}} \times \frac{1}{\text{Treated Area (acres)}}$

³Actual Rate lb/A = $\frac{\text{Product Rate (lb)}}{\text{Acre}} \times \frac{\text{Actual Spray Rate (GPA)}}{\text{Target Spray Rate}}$

Actual Rate lb ai/A = $\frac{\text{Actual Rate mL}}{\text{Acre}} \times 75\%$

⁵To convert lb ai/A to kg ai/ha, multiply lbs ai/A x 1.121

⁶Percent of Target = $\frac{\text{Actual Rate (lb ai/A)}}{\text{Target Rate (lb ai/A)}} \times 100$

⁷Wheat Mancozeb 1X rate = 1.6 lb ai/A

Table 10: Product Rate Determination (Continued)

Soybean Site Code	Test Substance & Application Date	Plot	App. No.	Volume			Total Pass Time (sec)	Calibrated Spray Rate (mL/sec)	Spray Mix Applied To Plot (mL) ¹	Treated Area (Acres)	Spray Rate (GPA) ²	Rate		% of Target ^{6,7}
				Test Substance (mL)	Carrier (mL)	Total Mixture (mL)						mL/A ³	Actual lb ai/A ^{4,5}	
AR02	Carbofuran 1X 09/01/05	14	1	16.4	2464	2500	20.03	49.6	993.5	0.0275	9.5	235.9	0.25	100
AR02	Carbofuran 1X 09/08/05	14	2	16.4	2464	2500	19.98	49.6	991.0	0.0275	9.5	235.9	0.25	100
AR02	Clethodim 5X 07/31/05	14	1	164	2336	2500	20.05	49.3	988.5	0.0275	9.5	2358.8	1.25	100

¹Spray Mix Applied to Plot (mL) = Total Pass Times (sec) x Calibrated Spray Rate (mL/sec)

²Spray Rate (GPA) = $\frac{\text{Spray Mix Applied to Plot (mL)}}{3785 \text{ mL/gal}} \times \frac{1}{\text{Treated Area (acres)}}$

³Actual Rate mL/A = $\frac{\text{Test Substance in Spray Mixture (mL)}}{\text{Total Mixture Volume (mL)}} \times \text{Actual Spray Rate (GPA)} \times \frac{3785 \text{ mL}}{1 \text{ gal}}$

⁴Actual Rate lb ai/A Carbofuran = $\frac{\text{Actual Rate mL}}{\text{Acres}} \times \frac{4 \text{ lb ai}}{\text{gallon}} \times \frac{1 \text{ gallon}}{3785 \text{ mL}} = \frac{\text{Actual Rate mL}}{\text{Acres}} \times \frac{2 \text{ lb ai}}{\text{gallon}} \times \frac{1 \text{ gallon}}{3785 \text{ mL}}$

⁵To convert lb ai/A to kg ai/ha, multiply lbs ai/A x 1.121

⁶Percent of Target = $\frac{\text{Actual Rate (lb ai/A)}}{\text{Target Rate (lb ai/A)}} \times 100$

⁷Soybean Carbofuran 1X rate = 0.25 lb ai/A Soybean Clethodim 5X rate = 1.25 lb ai/A

Table 10: Product Rate Determination (Continued)

Soybean Site Code	Test Substance & Application Date	Plot	App. No.	Volume			Total Pass Time (sec)	Calibrated Spray Rate (mL/sec)	Spray Mix Applied To Plot (mL) ¹	Treated Area (Acres)	Spray Rate (GPA) ²	Rate		% of Target ^{6,7}
				Test Substance (mL)	Carrier (mL)	Total Mixture (mL)						mL/A ³	Actual lb ai/A ^{4,5}	
AR02	Esfenvalerate IX 08/17/05	14	1	19.9	2480	2500	19.99	49.6	991.5	0.0275	9.5	286.2	0.05	100
AR02	Esfenvalerate IX 08/25/05	14	2	19.9	2480	2500	20.01	49.5	990.5	0.0275	9.5	286.2	0.05	100
AR02	Esfenvalerate IX 09/01/05	14	3	19.9	2464	2500	20.03	49.6	993.5	0.0275	9.5	286.2	0.05	100
AR02	Esfenvalerate IX 09/08/05	14	4	19.9	2464	2500	19.98	49.6	991.0	0.0275	9.5	286.2	0.05	100

¹Spray Mix Applied to Plot (mL) = Total Pass Times (sec) x Calibrated Spray Rate (mL/Sec)

²Spray Rate (GPA) = $\frac{\text{Spray Mix Applied to Plot (mL)}}{3785 \text{ mL/gal}} \times \frac{1}{\text{Treated Area (acres)}}$

³Actual Rate mL/A = $\frac{\text{Test Substance in Spray Mixture (mL)}}{\text{Total Mixture Volume (mL)}} \times \text{Actual Spray Rate (GPA)} \times \frac{3785 \text{ mL}}{1 \text{ gal}}$

⁴Actual Rate lb ai/A Esfenvalerate = $\frac{\text{Actual Rate mL}}{\text{Acres}} \times \frac{0.66 \text{ lb ai}}{\text{gallon}} \times \frac{1 \text{ gallon}}{3785 \text{ mL}}$

⁵To convert lb ai/A to kg ai/ha, multiply lbs ai/A x 1.121

⁶Percent of Target = $\frac{\text{Actual Rate (lb ai/A)}}{\text{Target Rate (lb ai/A)}} \times 100$

⁷Soybean Esfenvalerate IX rate = 0.05 lb ai/A

Table 10: Product Rate Determination (Continued)

Soybean Site Code	Test Substance & Application Date	Plot	App. No.	Volume			Total Pass Time (sec)	Calibrated Spray Rate (mL/sec)	Spray Mix Applied To Plot (mL) ¹	Treated Area (Acres)	Spray Rate (GPA) ²	Rate		% of Target ^{6,7}
				Test Substance (mL)	Carrier (mL)	Total Mixture (mL)						mL/A ³	lb ai/A ^{4,5}	
AR02	Carbofuran 5X 09/01/05	15	1	82	2418	2500	20.02	49.6	993.0	0.0275	9.5	1179.4	1.25	100
AR02	Carbofuran 5X 09/08/05	15	2	82	2418	2500	20.04	49.6	994.0	0.0275	9.5	1179.4	1.25	100
AR02	Clethodim 1X 07/31/05	15	1	33	2467	2500	20.01	49.3	986.5	0.0275	9.5	474.6	0.25	100

¹Spray Mix Applied to Plot (mL) = Total Pass Times (sec) x Calibrated Spray Rate (mL/sec)

²Spray Rate (GPA) = $\frac{\text{Spray Mix Applied to Plot (mL)}}{3785 \text{ mL/gal}} \times \frac{1}{\text{Treated Area (acres)}}$

³Actual Rate mL/A = $\frac{\text{Test Substance in Spray Mixture (mL)}}{\text{Total Mixture Volume (mL)}} \times \text{Actual Spray Rate (GPA)} \times \frac{3785 \text{ mL}}{1 \text{ gal}}$

⁴Actual Rate lb ai/A Carbofuran = $\frac{\text{Actual Rate mL}}{\text{Acres}} \times \frac{4 \text{ lb ai}}{\text{gallon}} \times \frac{1 \text{ gallon}}{3785 \text{ mL}} = \frac{\text{Actual Rate mL}}{\text{Acres}} \times \frac{2 \text{ lb ai}}{\text{gallon}} \times \frac{1 \text{ gallon}}{3785 \text{ mL}}$

⁵To convert lb ai/A to kg ai/ha, multiply lbs ai/A x 1.121

⁶Percent of Target = $\frac{\text{Actual Rate (lb ai/A)}}{\text{Target Rate (lb ai/A)}} \times 100$

⁷Soybean Carbofuran 5X rate = 1.25 lb ai/A Soybean Clethodim 1X rate = 0.25 lb ai/A

Table 10: Product Rate Determination (Continued)

Soybean Site Code	Test Substance & Application Date	Plot	App. No.	Volume			Total Pass Time (sec)	Calibrated Spray Rate (mL/sec)	Spray Mix Applied To Plot (mL) ¹	Treated Area (Acres)	Spray Rate (GPA) ²	Rate		
				Test Substance (mL)	Carrier (mL)	Total Mixture (mL)						mL/A ³	Actual lb ai/A ^{4,5}	% of Target ^{6,7}
AR02	Esfenvalerate 5X 08/17/05	15	1	100	2400	2500	19.97	49.6	990.5	0.0275	9.5	1438.3	0.25	100
AR02	Esfenvalerate 5X 08/25/05	15	2	100	2400	2500	20.04	49.5	992.0	0.0275	9.5	1438.3	0.25	100
AR02	Esfenvalerate 5X 09/01/05	15	3	100	2400	2500	20.02	49.6	993.0	0.0275	9.5	1438.3	0.25	100
AR02	Esfenvalerate 5X 09/08/05	15	4	100	2400	2500	20.04	49.6	994.0	0.0275	9.5	1438.3	0.25	100

¹Spray Mix Applied to Plot (mL) = Total Pass Times (sec) x Calibrated Spray Rate (mL/Sec)

²Spray Rate (GPA) = $\frac{\text{Spray Mix Applied to Plot (mL)}}{3785 \text{ mL/gal}} \times \frac{1}{\text{Treated Area (acres)}}$

³Actual Rate mL/A = $\frac{\text{Test Substance in Spray Mixture (mL)}}{\text{Total Mixture Volume (mL)}} \times \text{Actual Spray Rate (GPA)} \times \frac{3785 \text{ mL}}{1 \text{ gal}}$

⁴Actual Rate lb ai/A Esfenvalerate = $\frac{\text{Actual Rate mL}}{\text{Acres}} \times \frac{0.66 \text{ lb ai}}{\text{gallon}} \times \frac{1 \text{ gallon}}{3785 \text{ mL}}$

⁵To convert lb ai/A to kg ai/ha, multiply lbs ai/A x 1.121

⁶Percent of Target = $\frac{\text{Actual Rate (lb ai/A)}}{\text{Target Rate (lb ai/A)}} \times 100$

⁷Soybean Esfenvalerate 5X rate = 0.25 lb ai/A

Table 10: Product Rate Determination (Continued)

Soybean Site Code	Test Substance & Application Date	Plot	App. No.	Volume			Total Pass Time (sec)	Calibrated Spray Rate (mL/sec)	Spray Mix Applied To Plot (mL) ¹	Treated Area (Acres)	Spray Rate (GPA) ²	Rate		% of Target ^{6,7}
				Test Substance (mL)	Carrier (mL)	Total Mixture (mL)						mL/A ³	Actual lb ai/A ^{4,5}	
IA01	Carbofuran 1X 09/10/05	17	1	26	5980	6006	93.9	3673.4	0.0689	14.1	231.0	0.24	96	
IA01	Carbofuran 1X 09/16/05	17	2	26	6070	6096	93.7	3764.9	0.0689	14.4	232.5	0.25	100	
IA01	Clethodim 5X 08/09/05	17	1	220	4880	5187	48.6	3910.8	0.0689	15.0	2408.0	1.27	102	

¹Spray Mix Applied to Plot (mL) = Total Pass Times (sec) x Calibrated Spray Rate (mL/sec)

²Spray Rate (GPA) = $\frac{\text{Spray Mix Applied to Plot (mL)}}{3785 \text{ mL/gal}} \times \frac{1}{\text{Treated Area (acres)}}$

³Actual Rate mL/A = $\frac{\text{Test Substance in Spray Mixture (mL)}}{\text{Total Mixture Volume (mL)}} \times \text{Actual Spray Rate (GPA)} \times \frac{3785 \text{ mL}}{1 \text{ gal}}$

⁴Actual Rate lb ai/A = $\frac{\text{Actual Rate mL}}{\text{Acres}} \times \frac{4 \text{ lb ai}}{\text{gallon}} \times \frac{1 \text{ gallon}}{3785 \text{ mL}} = \frac{\text{Actual Rate mL}}{\text{Acres}} \times \frac{2 \text{ lb ai}}{\text{gallon}} \times \frac{1 \text{ gallon}}{3785 \text{ mL}}$

⁵To convert lb ai/A to kg ai/ha, multiply lbs ai/A x 1.121

⁶Percent of Target = $\frac{\text{Actual Rate (lb ai/A)}}{\text{Target Rate (lb ai/A)}} \times 100$

⁷Soybean Carbofuran 1X rate = 0.25 lb ai/A Soybean Clethodim 5X rate = 1.25 lb ai/A