

TABLE 9.1. The amount of glyphosate spray solution and glyphosate formulation used for different treatments and termination achieved¹

Treatment	Glyphosate spray solution applied (qt/ac)	Glyphosate formulation applied (qt/ac)	Glyphosate formulation amount of continuous spray, percent	Rye termination one week after rolling, percent		
				2006	2007	2008
Continuous spray	59.5	1.0	100	100	97	99
Spray every other crimp	17.2	0.3	29	97	94	97
Spray every fourth crimp	7.6	0.1	13	99	84	96

¹The continuous spray application was calibrated to apply 1 quart (32 fluid ounces) of the glyphosate formulation per acre.

TABLE 9.2. Cost (dollars per acre) of various combinations of rolling and crimping with herbicide application, 2008¹

Practice	Herbicide application without rolling/crimping	Rolling/crimping and herbicide application as two separate passes ²	Rolling/crimping with continuous spray	Rolling/crimping with spray every second crimp	Rolling/crimping with spray every fourth crimp
Roller/crimper ³	-	\$6.06	\$6.06	\$6.06	\$6.06
Sprayer equipment ⁴	\$6.26	\$6.26	\$1.15	\$ 1.15	\$1.15
Herbicide ⁵	\$11.20	\$11.20	\$11.20	\$3.21	\$1.39
Total	\$17.46	\$23.52	\$18.41	\$10.42	\$8.60

Source: [5]

¹ Costs include variable and fixed costs of application.

² This practice, not part of the study, was included for comparison purposes and is utilized in the Southeast.

³ Based on the cost of a roller 9.1 feet wide from [6].

⁴ Sprayer costs for experimental treatments are estimated based on the fixed cost, repair and maintenance, and hand labor costs when the sprayer is attached to the roller.

⁵ Herbicide costs are based on rates taken from Table 9.1 and a cost of glyphosate of \$11.20 per quart.