UNIVERSITY OF MISSOURI
Extension

AGRICULTURE

Quick Reference Insecticide Spray Guide: Soybean

Pesticide active ingredient	Product brand name examples	Mode of action	Reentry interval (hours)	Preharvest interval (days)	Target pests†																		Effects on natural enemies‡
					Stem feeders		Defoliators									Defoliators and pod feeders				Pod feeders		
					Cutworm	Threecornered alfalfa hopper	Blister beetle	Garden webworm	Grasshopper	Green cloverworm	Saltmarsh caterpillar	Soybean looper	Cabbage looper	Spider mite	Velvetbean caterpillar	Bean leaf beetle	Beet armyworm	Yellowstriped fall armyworm	Corn earworm	Green stink bug	Brown stink bug	
permethrin	Ambush	3	12	60		+++	++	+++	++	+++	++	+	++		+++	+++	+	+++	+++	++	++	M
esfenvalerate	Asana XL	3	12	21	+++	+++	+++	+++	+++	+++	++	+	+++		+++	+++	+	+++	+++	+++	++	M
bacillus thuringiensis	*Bacillus thuringiensis*	11	4	label				++		+++	+	++	++		+++		+		+			L
beta-cyfluthrin	Baythroid XL	3	12	45	+++	+++	+++	+++	+++	+++	++	+	+++		+++	+++	+	+++	+++	+++	++	H
clothianidin	Belay 2.13 EC	4A	12	21																+++	+++	S
flubendiamide	Belt	28	12	14				++		+++	+++	+++	+++				+++	+++	+++			M
bifenthrin	Discipline, Brigade	3	12	18	+++	+++	+++	+++	+++	+++	++	+	+++	+++	+++	+++		+++	+++	+++	+++	S
lambda-cyhalothrin + chlorpyrifos	Cobalt	3+1B	24	30	+++	+++	+++	+++	+++	+++	++	+	+++	++	+++	+++	++	+++	+++	+++	++	M
dimethoate	Dimethoate	1B	48	21		++	++	++	+++	+	+	+	+	++	+	+++	+	++	+	+++	++	M
lambda-cyhalothrin + thiamethoxam	Endigo ZC	3+4A	24	30	+++	+++	+++	+++	+++	+++	++	+	+++		+++	+++	+	+++	+++	+++	+++	M–S
zeta-cypermethrin + bifenthrin	Hero	3+3	12	21	+++	+++	+++	+++	+++	+++	++	+	+++	+++	+++	+++		+++	+++	+++	+++	M–S
methoxyfenozide	Intrepid	18A	4	14				++		++	+++	+++			+++		+++	+++	+++			L
lambda-cyhalothrin	Karate, Silencer, Lambda-Cy	3	24	30	+++	+++	+++	+++	+++	+++	++	+	+++		+++	+++	+	+++	+++	+++	++	M
methomyl	Lannate 2.4 LV	1A	72	14	+	++	++	+++	++	+++	++	+++	+++		+++	++	+++	+++	+++	+++	++	H
thiodicarb	Larvin 3.2 F	1A	48	28	++	+	+	+++	++	+++	+	+++	+++		+++	+++	+++	+++	+++	+	+	M
beta-cyfluthrin + imidacloprid	Leverage	3+4A	12	45	+++	+++	+++	+++	+++	+++	++	+	+++		+++	+++	+	+++	+++	+++	+++	H–S
chlorpyrifos	Lorsban, Nufos, Warhawk	1B	24	28	+++	++	++	++	+++	+++	+	+	++	++	+++	++	++	++	++	++	++	M
zeta-cypermethrin	Mustang Max, Respect	3	12	21	+++	+++	+++	+++	+++	+++	++	+	+++		+++	+++	+	+++	+++	+++	++	M
acephate	Orthene, Acephate	1B	24	14					+++				+++							+++	+++	S
gamma-cyhalothrin	Prolex, Declare	3	24	45	+++	+++	+++	+++	+++	+++	++	+	+++		+++	+++	+	+++	+++	+++	++	S
carbaryl	Sevin	1A	12	21	++	+	+++	+	+++	+++	++	+	+		+++	+++	+	++	++	++	++	S
indoxacarb	Steward	22	12	21	+++			+++		+++	++	+++	+++		++		+++	+++	+++	+	+	S
spinosad	Tracer	5	4	28	+++			+++	+	+++	++	+++	+++		+++	+	+++	+++	+++	+	+	L

† *Level of control of target pest: no observed control ( ), low levels of pest suppression (+), short-term control (++) or good control (+++).*

‡ *Effects on natural enemies: low (L), slight (S), moderate (M) or (H) high toxicity.*

Adapted from: Studebaker, G., J. Carson, J.D. Hopkins, K. Loftin, G. Lorenz, P. Spradley, and J. Zawislak. 2013. Insecticide recommendations for Arkansas. *University of Arkansas Cooperative Extension Services: Little Rock.*

Archive version. For the most recent information, see extension.missouri.edu.

Developed by **Moneen M. Jones**, Research Entomologist, Division of Plant Sciences, College of Agriculture, Food and Natural Resources

Always read and follow directions on the pesticide label. The University of Missouri intends no endorsement of products named here nor criticism of similar products that are not mentioned.

g7119

Issued in furtherance of the Cooperative Extension Work Acts of May 8 and June 30, 1914, in cooperation with the United States Department of Agriculture. Director, Cooperative Extension, University of Missouri, Columbia, MO 65211 ■ an equal opportunity/ADA institution ■ 573-882-7216 ■ extension.missouri.edu

New 4/14/Web