

EDAMAME INSECT CONTROL

Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/Gallon	Application/Comments	Minimum Days From Last Application to Harvest	Restricted Entry Interval (REI) Hours
Cutworm	bifenthrin (R) Brigade 2 EC (See Generic Insecticides)	2.1-6.4 oz	0.033-0.1	20-61	DO NOT apply more than 0.2 lb ai of Brigade per season. DO NOT apply again for 30 days.	3	12
	gamma-cyhalothrin (R) Proaxis 0.5 CS Declare 1.25 CS	1.92-3.2 oz 0.77-1.28 oz	0.0075-0.0125	40-66.7 100-167	DO NOT apply more than 0.06 lb ai per season.	7 succulent, 21 dried	24
	lambda-cyhalothrin (R) Warrior II 2.08 CS (See Generic Insecticides)	0.96-1.6 oz	0.015-0.025	80-133	DO NOT apply more than 0.06 lb ai per season.	7 succulent, 21 dried	24
	zeta-cypermethrin (R) Mustang Maxx 0.8 EC	1.28-4.0 oz	0.008-0.025	32-100	DO NOT apply more than 0.15 lb ai per season.	1 succulent, 21 dried	12
Kudzu Bug	bifenthrin (R) Brigade 2 EC (See Generic Insecticides)	6.4 oz	0.1	20	DO NOT apply more than 0.2 lb ai of Brigade per season. DO NOT apply again for 30 days.	3	12
	lambda-cyhalothrin (R) Warrior II 2.08 CS (See Generic Insecticides)	1.92 oz	0.03	67	DO NOT apply more than 0.06 lb ai per season.	7 succulent, 21 dried	24
	gamma-cyhalothrin (R) Proaxis 0.5 CS Declare 1.25 CS	3.2-3.84 oz 1.28-1.54 oz	0.0125-0.015	40-66.7 83-100	DO NOT apply more than 0.06 lb ai per season.	7 succulent, 21 dried	24
	zeta-cypermethrin (R) Mustang Maxx 0.8 EC	4.0 oz	0.025	32	DO NOT apply more than 0.15 lb ai per season.	1 succulent, 21 dried	12
	zeta-cypermethrin + bifenthrin (R) Hero 1.24 EC	4.0 -10.3 oz	0.04-0.1	12.4-32	DO NOT apply more than 0.266 lb ai of Hero per season. DO NOT apply again for 5 days.	3	12
Threecornered Alfalfa Hopper	gamma-cyhalothrin (R) Proaxis 0.5 CS Declare 1.25 CS	1.92-3.2 oz 0.77-1.28 oz	0.0075-0.0125	40-66.7 100-167	DO NOT apply more than 0.06 lb ai per season.	7 succulent, 21 dried	24
	lambda-cyhalothrin (R) Warrior II 2.08 CS (See Generic Insecticides)	0.96-1.6 oz	0.015-0.25	80-133	DO NOT apply more than 0.06 lb ai per season.	7 succulent, 21 dried	24
	lambda-cyhalothrin + chlorantraniliprole (R) Besiege 1.252	5.0-8.0 oz	0.049-0.08	16-25.6	DO NOT graze or feed hay to livestock. DO NOT exceed 20 fl oz per acre per season.	7 succulent, 21 dried	24
	imidacloprid Gaucho 600 Senator 600 Axxess 5 FS	1.6 - 3.2 oz/100 lb seed 1.6 - 3.2 oz/100 lb seed 1.6 - 3.2 oz/100 lb seed			Seed treatment. DO NOT graze or feed livestock on forage or hay.	12	12
	thiamexthoxam Cruiser 5 FS Warden CX	1.28 oz/100 lb seed 3.38 oz/100 lb seed			Seed treatment.		12 12
	zeta-cypermethrin (R) Mustang Maxx 0.8 EC	2.8-4.0 oz	0.0175-0.025	32-45.7	DO NOT apply more than 0.15 lb ai per season.	1 succulent, 21 dried	12
	zeta-cypermethrin + bifenthrin (R) Hero 1.24 EC	4.0-10.3 oz	0.04-0.1	12.4-32	DO NOT apply more than 0.266 lb ai of Hero per season. DO NOT apply again for 5 days.	3	12

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Blister Beetle	bifenthrin (R) Brigade 2 EC (See Generic Insecticides)	2.1-6.4 oz	0.033-0.1	20-61	DO NOT apply more than 0.2 lb ai of Brigade per season. DO NOT apply again for 30 days.	3	12	
	carbaryl Sevin XLR or 4F	2 qt	2	2		21	12	
	gamma-cyhalothrin (R) Proaxis 0.5 CS Declare 1.25 CS	1.92-3.2 oz 0.77-1.28 oz	0.0075-0.0125	40-66.7 100-167	DO NOT apply more than 0.06 lb ai per season.	7 succulent, 21 dried	24	
	lambda-cyhalothrin (R) Warrior II 2.08 CS (See Generic Insecticides)	0.96-1.6 oz 2.1-6.4 oz	0.015-0.025	80-133	DO NOT apply more than 0.06 lb ai per season.	7 succulent, 21 dried	24	
	lambda-cyhalothrin + chlorantraniliprole (R) Besiege 1.252	8.0-10.0 oz		32-45.7		7 succulent, 21 dried	24	
	zeta-cypermethrin (R) Mustang Maxx 0.8 EC	1.28-4.0 oz	0.008-0.025	32-100	DO NOT apply more than 0.15 lb ai per season.	1 succulent, 21 dried	12	
	zeta-cypermethrin 0.8 EC + bifenthrin (R) Hero 1.24 EC	4.0-10.3 oz	0.04-0.1	12.4-32	DO NOT apply more than 0.266 lb ai of Hero per season. DO NOT apply again for 5 days.	3	12	
	Defoliating Caterpillars (Garden webworm, green cloverworm, saltmarsh caterpillar, cabbage looper, velvetbean caterpillar, silver- spotted skipper)	<i>Bacillus thuringiensis</i>	0.5 - 2 lb/a					4
		bifenthrin (R) Brigade 2 EC (See Generic Insecticides)	2.1-6.4 oz	0.033-0.1	20-61	DO NOT apply more than 0.2 lb ai of Brigade per season. DO NOT apply again for 30 days.	3	12
		bifenthrin + chlorantraniliprole Elevest 2.22 SC	5.6-9.6 oz	0.098-0.167	23-13		18	12
carbaryl Sevin XLR or 4F		2-3 pt	1.0-1.5	2.7-4		21	12	
chlorantraniliprole Prevathon 0.43 Vantacor 5 SC		14-20 oz 1.25-2 oz	0.047-0.067	6.4-9.14 107-51		1	4	
gamma-cyhalothrin (R) Proaxis 0.5 CS Declare 1.25 CS		1.92-3.2 oz 0.77-1.28 oz	0.0075-0.0125	40-66.7 100-167	DO NOT apply more than 0.06 lb ai per season. Higher rate of 1.28-1.54 oz/acre required for garden webworm and silver-spotted skipper.	7 succulent, 21 dried	24	
lambda-cyhalothrin (R) Warrior II 2.08 CS (See Generic Insecticides)		1.28-1.92 oz	0.02-0.03	66.6-100	DO NOT apply more than 0.06 lb ai per season. For garden webworm and silver-spotted skipper, raise rate to 1.6-1.92 oz/acre.	7 succulent, 21 dried	24	
lambda-cyhalothrin + chlorantraniliprole (R) Besiege 1.252		6-10 oz	0.06-0.1	13-21	DO NOT graze or feed hay to livestock. DO NOT exceed 20 fl oz per acre per season. Use 8-10 oz for silver-spotted skippers.	7 succulent, 21 dried	24	
methoxyfenozide Intrepid 2F		4-16 oz	0.0625-0.250	16-32	Intrepid is not labeled for silver-spotted skipper. DO NOT exceed more than 1 lb ai of Intrepid per season.	7	7	
Spinosad Entrust SC (OMRI)		4-6 fl oz			Do not make more than two consecutive applications of Group 5 insecticides	28	4	
zeta-cypermethrin (R) Mustang Maxx 0.8 EC		2.8-4.0 oz	0.0175-0.025	32-45.7	DO NOT apply more than 0.15 lb ai per season. For saltmarsh caterpillar and silver-spotted skipper, the rate can be lowered to 1.28 oz Raise rate to 3.2-4 oz for cabbage loopers.	1 succulent, 21 dried	12	
zeta-cypermethrin + bifenthrin (R) Hero 1.24 EC		4.0-10.3 oz	0.04-0.1	12.4-32	DO NOT apply more than 0.266 lb ai of Hero per season. DO NOT apply again for 5 days. For green cloverworm and silver-spotted skipper, rate can be dropped to 2.6-6.1 oz.	3	12	

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Grasshoppers	bifenthrin (R) Brigade 2 EC (See Generic Insecticides)	2.1-6.4 oz	0.033-0.1	20-61	DO NOT apply more than 0.2 lb ai of Brigade per season. DO NOT apply again for 30 days.	3	12
	bifenthrin + chlorantraniliprole Elevest 2.22 SC	4.8-9.6 oz	0.084-0.167	26.7-13		18	12
	chlorantraniliprole Prevathon 0.43 Vantacor 5 SC	8-20 oz 0.7-1.7 oz	0.027-0.067	6.4-9.14 183-75		1	4
	gamma-cyhalothrin (R) Proaxis 0.5 CS Declare 1.25 CS	3.2-3.84 oz 1.28-1.54 oz	0.0125-0.015	40-66.7 83-100	DO NOT apply more than 0.06 lb ai per season.	7 succulent, 21 dried	24
	lambda-cyhalothrin (R) Warrior II 2.08 CS	1.6-1.92 oz	0.025-0.03	67-80	DO NOT apply more than 0.06 lb ai per season.	7 succulent, 21 dried	24
	lambda-cyhalothrin + chlorantraniliprole (R) Besiege 1.252	8.0-10.0 oz	0.08-0.098	12.8-16	DO NOT graze or feed hay to livestock. DO NOT exceed 20 fl oz per acre per season.	7 succulent, 21 dried	24
	zeta-cypermethrin (R) Mustang Maxx 0.8 EC	3.2-4.0 oz	0.02-0.025	32-40	DO NOT apply more than 0.15 lb ai per season.	1 succulent, 21 dried	12
	zeta-cypermethrin + bifenthrin (R) Hero 1.24 EC	2.6-6.1 oz	0.025-0.06	21-49.2	DO NOT apply more than 0.266 lb ai of Hero per season. DO NOT apply again for 5 days.	3	12
Soybean Looper	<i>Bacillus thuringiensis</i>	Check label.			<i>Bacillus thuringiensis</i> works effectively against insecticide-resistant or susceptible populations of soybean loopers and requires 3-4 days to kill larvae.		4
	bifenthrin + chlorantraniliprole Elevest 2.22 SC	5.6-9.6 oz	0.098-0.167	23-13		18	12
	chlorantraniliprole Prevathon 0.43 Vantacor 5 SC	14-20 oz 1.2-2.5 oz	0.047-0.067	6.4-9.14 107-51		1	4
	lambda-cyhalothrin + chlorantraniliprole (R) Besiege 1.252	10.0 oz	0.098	12.8	DO NOT graze or feed hay to livestock. DO NOT exceed 20 fl oz per acre per season.	7 succulent, 21 dried	24
	methoxyfenozide Intrepid 2 F	4-8 oz	0.0625-0.125	16-32	DO NOT exceed more than 1 lb ai of Intrepid per season.	7	12
	Spinosad Entrust SC (OMRI)	4-6 fl oz			Do not make more than two consecutive applications of Group 5 insecticides	28	4
Spider Mites	abamectin Agri-Mek 0.7 SC	1.75-3.5 oz	0.01-0.019	73-36.6	Do not allow livestock to graze on treated plants.	7	12
	bifenthrin (R) Brigade 2 EC (See Generic Insecticides)	5.12-6.4 oz	0.08-0.1	20-25	DO NOT apply more than 0.2 lb ai of Brigade per season. DO NOT apply again for 30 days.	3	12

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Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/Gallon	Application/Comments	Minimum Days From Last Application to Harvest	Restricted Entry Interval (REI) Hours	
Bean Leaf Beetle	bifenthrin (R) Brigade 2 EC (See Generic Insecticides)	2.1-6.4 oz	0.033-0.1	20-61	DO NOT apply more than 0.2 lb ai of Brigade per season. DO NOT apply again for 30 days.	3	12	
	carbaryl Sevin XLR or 4F	1 pt	0.5	8		21	12	
	gamma-cyhalothrin (R) Proaxis 0.5 CS Declare 1.25 CS	1.92-3.2 oz 0.77-1.28 oz	0.0075-0.0125	40-66.7 100-167	DO NOT apply more than 0.06 lb ai per season.	7 succulent, 21 dried	24	
	lambda-cyhalothrin (R) Warrior II 2.08 CS (See Generic Insecticides)	0.96-1.6 oz	0.015-0.025	80-133	DO NOT apply more than 0.06 lb ai per season.	7 succulent, 21 dried	24	
	imidacloprid Gaucho 600 Axxess 5 FS Senator 600	1.6 - 3.2 oz/100 lb seed 1.6 - 3.2 oz/100 lb seed 1.6 - 3.2 oz/100 lb seed	0.3-0.45		Gaucho and Cruiser will suppress early-season bean leaf beetles.		12	
	thiamexthoxam Cruiser 5 FS Warden CX	1.28 oz/100 lb seed 3.38 oz/100 lb seed					12	
	zeta-cypermethrin (R) Mustang Maxx 0.8 EC	2.8-4.0 oz	0.0175-0.025	32-45.7	DO NOT apply more than 0.15 lb ai per season.	1 succulent, 21 dried	12	
	zeta-cypermethrin + bifenthrin (R) Hero 1.24 EC	4.0-10.3 oz	0.04-0.1	12.4-32	DO NOT apply more than 0.266 lb ai of Hero per season. DO NOT apply again for 5 days.	3	12	
	ARMYWORM CONTROL							
	PYRETHROIDS (Brigade, Prolex, Proaxis, Karate, Mustang Maxx, Hero) are not effective against beet armyworm. DO NOT USE.							
Armyworm Complex (Yellow-striped, Fall and Beet Armyworm)	bifenthrin (R) Brigade 2 EC (See Generic Insecticides)	2.1-6.4 oz	0.033-0.1	20-61	DO NOT apply more than 0.2 lb ai of Brigade per season. DO NOT apply again for 30 days.	3	12	
	bifenthrin + chlorantraniliprole Elevest 2.22 SC	5.6-9.6 oz	0.098-0.167	23-13		18	12	
	chlorantraniliprole Prevathon 0.43 Vantacor 5 SC	14-20 oz 1.2-2.5 oz	0.047-0.067	6.4-9.14 107-51		1	4	
	gamma-cyhalothrin (R) Proaxis 0.5 CS Declare 1.25 CS	3.2-3.84 oz 1.28-1.54 oz	0.0125-0.015	40-66.7 83-100	DO NOT apply more than 0.06 lb ai per season.	7 succulent, 21 dried 7 succulent, 21 dried	24 24	
	lambda-cyhalothrin (R) Warrior II 2.08 CS (See Generic Insecticides)	1.6-1.92 oz	0.025-0.03	69-83	DO NOT apply more than 0.06 lb ai per season.	7 succulent, 21 dried	24	
	lambda-cyhalothrin + chlorantraniliprole (R) Besiege 1.252	8.0-10.0 oz	0.08-0.098	12.8-16	DO NOT graze or feed hay to livestock. DO NOT exceed 20 fl oz per acre per season.	7 succulent, 21 dried	24	
	methoxyfenozide Intrepid 2 F	4-8 oz	0.0625-0.125	16-32	DO NOT exceed more than 1 lb ai of Intrepid per season.	7	12	

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Armyworm Complex (Yellow-striped, Fall and Beet Armyworm) (cont.)	Spinosad Entrust SC (OMRI)	4-6 fl oz			Do not make more than two consecutive applications of Group 5 insecticides	28	4
	zeta-cypermethrin (R) Mustang Maxx 0.8 EC	3.2-4.0 oz	0.02-0.025	32-40	DO NOT apply more than 0.15 lb ai per season.	1 succulent, 21 dried	12
	zeta-cypermethrin + bifenthrin (R) Hero 1.24 EC	4.0-10.3 oz	0.04-0.1	12.4-32	DO NOT apply more than 0.266 lb ai of Hero per season. DO NOT apply again for 5 days.	3	12
Corn Earworm and Tobacco Budworm	In recent years, pyrethroids have shown reduced efficacy and can be expected to provide poor to moderate control. Consider tank-mixing another chemistry when using a pyrethroid. DO NOT use synthetic pyrethroids on populations of tobacco budworm. Tobacco budworm is resistant to this chemistry.						
	Synthetic Pyrethroids						
	bifenthrin (R) Brigade 2 EC (See Generic Insecticides)	2.1-6.4 oz	0.0331-0.1	20-61	DO NOT apply more than 0.2 lb ai of Brigade per season. DO NOT apply again for 30 days.	3	12
	gamma-cyhalothrin (R) Proaxis 0.5 CS Declare 1.25 CS	1.92-3.2 oz 0.77-1.28 oz	0.0075-0.0125	40-66.7 100-167	DO NOT apply more than 0.06 lb ai per season.	7 succulent, 21 dried	24 24
	lambda-cyhalothrin (R) Warrior II 2.08 CS (See Generic Insecticides)	1.28-1.92 oz	0.02-0.03	67-100	DO NOT apply more than 0.06 lb ai per season.	7 succulent, 21 dried	24
	zeta-cypermethrin (R) Mustang Maxx 0.8 EC	2.8-4.0 oz	0.0175-0.025	32-45.7	DO NOT apply more than 0.15 lb ai per season.	1 succulent, 21 dried	12
	zeta-cypermethrin + bifenthrin (R) Hero 1.24 EC	4.0-10.3 oz	0.04-0.1	12.4-32	DO NOT apply more than 0.266 lb ai of Hero per season. DO NOT apply again for 5 days.	3	12
	Carbamates						
	carbaryl Sevin XLR or 4F	1-3 pt	0.5-1.5	2.7-8		21	12
	Other Chemistry						
	chlorantraniliprole Prevathon 0.43 Vantacor 5 SC	14-20 oz 1.2-2.5 oz	0.047-0.067	6.4-9.14 107-51	Make no more than 4 applications per year.	1	4
	lambda-cyhalothrin + chlorantraniliprole (R) Besiege 1.252	8.0-10.0 oz	0.08-0.98	12.8-16		7 succulent, 21 dried	24
	nucleopolyhedrovirus Heligen	1-1.6 oz		80-128	Apply before reaching economic threshold targeting small larvae. Applications to large larvae often result in poor control. Larvae stop feeding within 1-3 days and die within 3-9 days. Refer to pub. AG1306 for more information.	0	4
	Spinosad Entrust SC (OMRI)	4-6 fl oz			Do not make more than two consecutive applications of Group 5 insecticides	28	4

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ROOT FEEDER Grape Colaspis	imidacloprid Gaucho 600 Access 5 FS Senator 600	1.6 oz/100 lb seed 1.6 oz/100 lb seed 1.6 oz/100 lb seed			A seed treatment can be beneficial in areas where grape colaspis has historically been a problem.		12
	thiamexthoxam Cruiser 5 FS Warden CX	1.28 oz/100 lb seed 3.2 oz/100 lb seed					12
Green Stink Bug, Southern Green Stink Bug, Red Shouldered Stink Bug	bifenthrin (R) Brigade 2 EC (See Generic Insecticides)	2.1-6.4 oz	0.330.033-0.1	20-61	DO NOT apply more than 0.2 lb ai of Brigade per season. DO NOT apply again for 30 days.	3	12
	gamma-cyhalothrin (R) Proaxis 0.5 CS Declare 1.25 CS	3.2-3.84 oz 1.28-1.54 oz	0.0125-0.015	40-66.7 83-100	DO NOT apply more than 0.06 lb ai per season.	7 succulent, 21 dried	24
	lambda-cyhalothrin (R) Warrior II 2.08 CS (See Generic Insecticides)	1.6-1.92 oz	0.025-0.03	67-80	DO NOT apply more than 0.06 lb ai per season.	7 succulent, 21 dried	24
	lambda-cyhalothrin + chlorantraniliprole (R) Besiege 1.252	8.0-10.0 oz	0.08-0.098	12.8-16	DO NOT graze or feed hay to livestock. DO NOT exceed 20 fl oz per acre per season.	7 succulent, 21 dried	24
	zeta-cypermethrin (R) Mustang Maxx 0.8 EC	3.2-4.0 oz	0.02-0.025	32-40	DO NOT apply more than 0.15 lb ai per season. DO NOT apply more than 0.266 lb ai of Hero per season.	1 succulent, 21 dried	12
	zeta-cypermethrin +bifenthrin (R) Hero 1.24 EC	4.0-10.3 oz	0.04-0.1	12.4-32	DO NOT apply again for 5 days.	3	12
Brown Stink Bug	bifenthrin (R) Brigade 2 EC (See Generic Insecticides)	2.1-6.4 oz	0.330.033-0.1	20-61	DO NOT apply more than 0.2 lb ai of Brigade per season. DO NOT apply again for 30 days.	3	12
Redbanded Stink Bug	bifenthrin (R) Brigade 2 EC (See Generic Insecticides)	2.1-6.4 oz	0.330.033-0.1	20-61	DO NOT apply more than 0.2 lb ai of Brigade per season. DO NOT apply again for 30 days.	3	12
	imidacloprid Imidacloprid 4F Imidacloprid 2F (See Generic Insecticides)	1.4 oz 2.8 oz	0.13	91.4 45.7	DO NOT apply more than 0.13 lb ai of Imidacloprid per season.	21	12
Multiple Pests	bifenthrin + chlorantraniliprole Elevest 2.22 SC	4.8-9.6 oz	0.084-0.167	26,7-13	Bollworm, Tobacco Budworm, Cutworm, Grasshopper, Bean Leaf Beetle, Stink Bugs, Loopers, Green Cloverworm, Velvetbean Caterpillar, Kudzu Bug, Garden Webworm, Saltmarsh Caterpillar	18	12
	lambda-cyhalothrin (R) + chlorantraniliprole Besiege 1.25 SC	5-10 oz	0.49-0.98	12.8-25.6	Bollworm, Tobacco Budworm, Cutworm, Grasshopper, Bean Leaf Beetle, Green Stink Bugs, Loopers, Green Cloverworm, Velvetbean Caterpillar, Kudzu Bug, Garden Webworm, Saltmarsh Caterpillar	7 succulent, 21 dried	24