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 Axcess 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

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
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)	*Bacillus thuringiensis*	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
	bifentrhin + 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 Shenzi 400SC Coragen	 14-20 oz 1.25-2 oz 1.7-3.8 fl oz 3.5-7.5 fl 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

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
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
	bifentrhin + 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 Shenzi 400SC Coragen	8-20 oz 0.7-1.7 oz 1.0-2.5 fl oz 2.0-5.0 fl oz	0.027-0.067	6.4-9.14 183-75	 See label for grasshopper remarks. See label for grasshopper remarks.	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	*Bacillus thuringiensis*	Check label.			*Bacillus thuringiensis* works effectively against insecticide-resistant or susceptible populations of soybean loopers and requires 3-4 days to kill larvae.		4
	bifentrhin + 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 Shenzi 400SC Coragen	14-20 oz 1.2-2.5 oz 1.7-3.8 fl oz 3.5-7.5 fl 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

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
Bean Leaf Beetle	bifenthrin (**R**)		0.033-0.1		DO NOT apply more than 0.2 lb ai of Brigade		
	Brigade 2 EC	2.1-6.4 oz		20-61	per season. DO NOT apply again for 30 days.	3	12
	(See Generic Insecticides)						
	carbaryl		0.5				
	Sevin XLR or 4F	1 pt		8		21	12
	gamma-cyhalothrin (**R**)		0.0075-0.0125		DO NOT apply more than 0.06 lb ai per season.		
	Proaxis 0.5 CS	1.92-3.2 oz		40-66.7		7 succulent, 21 dried	24
	Declare 1.25 CS	0.77-1.28 oz		100-167			
	lambda-cyhalothrin (**R**)		0.015-0.025		DO NOT apply more than 0.06 lb ai per season.		
	Warrior II 2.08 CS	0.96-1.6 oz		80-133		7 succulent, 21 dried	24
	(See Generic Insecticides)						
	imidacloprid		0.3-0.45		Gaucho and Cruiser will suppress early-season bean		
	Gaucho 600	1.6 - 3.2 oz/100 lb seed			leaf beetles.		12
	Axcess 5 FS	1.6 - 3.2 oz/100 lb seed					
	Senator 600	1.6 - 3.2 oz/100 lb seed					
	thiamexthoxam						12
	Cruiser 5 FS	1.28 oz/100 lb seed					
	Warden CX	3.38 oz/100 lb seed					
	zeta-cypermethrin (**R**)		0.0175-0.025		DO NOT apply more than 0.15 lb ai per season.		
	Mustang Maxx 0.8 EC	2.8-4.0 oz		32-45.7		1 succulent, 21 dried	12
	zeta-cypermethrin + bifenthrin (**R**)		0.04-0.1		DO NOT apply more than 0.266 lb ai of Hero per season.		
	Hero 1.24 EC	4.0-10.3 oz		12.4-32	DO NOT apply again for 5 days.	3	12
Armyworm Complex (Yellow-striped, Fall and Beet Armyworm)	PYRETHROIDS (Brigade, Prolex, Proaxis, Karate, Mustang Maxx, Hero) are not effective against beet armyworm. DO NOT USE.						
	bifenthrin (**R**)		0.033-0.1		DO NOT apply more than 0.2 lb ai of Brigade		
	Brigade 2 EC	2.1-6.4 oz		20-61	per season. DO NOT apply again for 30 days.	3	12
	(See Generic Insecticides)						
	bifentrhin + chlorantraniliprole		0.098-0.167			18	12
	Elevest 2.22 SC	5.6-9.6 oz		23-13			
	chlorantraniliprole						
	Prevathon 0.43	14-20 oz	0.047-0.067	6.4-9.14		1	4
	Vantacor 5 SC	1.2-2.5 oz		107-51			
	Shenzi 400SC	1.7-3.8 fl oz					
	Coragen	3.5-7.5 fl oz					
	gamma-cyhalothrin (**R**)		0.0125-0.015		DO NOT apply more than 0.06 lb ai per season.		
	Proaxis 0.5 CS	3.2-3.84 oz		40-66.7		7 succulent, 21 dried	24
	Declare 1.25 CS	1.28-1.54 oz		83-100		7 succulent, 21 dried	24
	lambda-cyhalothrin (**R**)		0.025-0.03		DO NOT apply more than 0.06 lb ai per season.		
	Warrior II 2.08 CS	1.6-1.92 oz		69-83		7 succulent, 21 dried	24
	(See Generic Insecticides)						
	lambda-cyhalothrin +		0.08-0.098		DO NOT graze or feed hay to livestock.		
	chlorantraniliprole (**R**)	8.0-10.0 oz		12.8-16	DO NOT exceed 20 fl oz per acre per season.	7 succulent, 21 dried	24
	Besiege 1.252						
	methoxyfenozide		0.0625-0.125		DO NOT exceed more than 1 lb ai of Intrepid per season.		
	Intrepid 2 F	4-8 oz		16-32		7	12

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
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 Shenzi 400SC Coragen	14-20 oz 1.2-2.5 oz 1.7-3.8 fl oz 3.5-7.5 fl 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

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