

## Insecticide Treatment Options for Soybean Aphid in Soybean

*Updated February 10, 2021*

See <https://www.greenbook.net> or other resources for additional registrations.

\*Consult product label for specific information and restrictions.

### IRAC Mode of Action Classification:

- Group 1 = Acetylcholine esterase inhibitors; 1A = Carbamates, 1B = Organophosphates
- Group 3 = Sodium channel modulators
- Group 4 = Nicotinic acetylcholine receptor agonists/antagonists; 4A = Neonicotinoids, 4C = Sulfoxaflor
- Group 9 = Chordotonal organ TRPV channel modulators; 9D = Pyropenes
- Group 28 = Ryanodine receptor modulators, Diamides

**R** = Restricted-Use Product

Mode Of Action	Product Name	Common Name	Rate (Formulation/Acre)	Restrictions/Comments
4A	Admire Pro	imidacloprid	1.3 fl oz	PHI 21 days. Maximum allowed per crop season is 3.9 fl oz/acre. Minimum interval between applications is 7 days.
4A	Alias 4F	imidacloprid	1.5 fl oz	PHI 21 days. Maximum allowed per crop season is 4.5 fl oz/acre. Minimum interval between applications is 7 days.
3 <b>R</b>	Arctic 3.2 EC	permethrin	4 - 8 fl oz	PHI 60 days. Do not graze treated areas or feed forage for hay.
3 <b>R</b>	Asana XL	esfenvalerate	5.8 - 9.6 fl oz	PHI 21 days. Do not feed or graze livestock on

				treated fields.
3 R	Baythroid XL	cyfluthrin	2.0 - 2.8 fl oz	PHI 21 days for seed. Green foliage may be fed 15 days after last application. Maximum 2.8 fl oz/acre allowed in 7 day interval, maximum 11.2 fl oz per crop season.
4A	Belay	clothianidin	3 - 6 fl oz	PHI 21 days. Do not graze or feed soybean forage and hay to livestock. Do not apply foliar treatments less than 7 days apart. Do not make foliar applications of Belay insecticide in fields treated with a neonicotinoid insecticide seed treatment(s) within 45 days after planting.
3, 28 R	Besiege	lambda-cyhalothrin, chlorantraniliprole	5 - 8 fl oz	PHI 30 days. Do not graze or harvest treated soybean forage, straw, or hay for livestock feed.
3 R	Brigade 2EC, Fanfare 2EC	bifenthrin	2.1-6.4 fl oz	PHI 18 days.
3 R, 4A	Brigadier	bifenthrin, imidacloprid	3.8 – 6.1 fl oz	PHI 21 days. PHI 45 days for feeding of dry vines. PHI 18 days for feeding of green vines.
3 R	Capture LFR	bifenthrin	2.8 – 8.5 fl oz	Do not make applications less than 30 days apart. PHI 18 days.
1B, 3 R	Cobalt	chlorpyrifos and cyhalothrin	13 - 26 fl oz	PHI 30 days. Maximum allowed per crop season is 85 fl oz/acre. Do not allow meat or dairy animals to graze in treated areas or feed treated soybean forage, hay, and straw to meat or dairy animals.
1B, 3 R	Cobalt Advanced	chlorpyrifos and lambda- cyhalothrin	11 - 26 fl oz	PHI 30 days. Maximum allowed per crop season is 85 fl oz/acre. Do not allow meat or dairy animals to graze in treated areas or feed treated soybean forage, hay, and straw to meat or dairy animals.
3 R	Declare	gamma-cyhalothrin	0.77 – 1.28 fl oz	PHI 45 days. Do not graze or harvest treated soybean forage, straw, or hay for livestock feed.
3 R	Delta Gold 1.5 EC	deltamethrin	1.5 - 2.4 fl oz	PHI 21 days. Maximum allowed per crop season is 8.5 fl oz/acre. Do not allow livestock to graze

				treated forage, or feed treated hay to livestock.
1B	Dimethoate 400	dimethoate	1 pt	PHI 21 days. Maximum application rate is 0.5 lb/acre. 7 day reapplication interval.
3, 4A R	Endigo ZC	lambda-cyhalothrin and thiamethoxam	3.5 - 4.0 fl oz	PHI 30 days. Do not exceed a total of 9.0 fl oz per acre per growing season. Do not graze or harvest treated soybean forage, straw, or hay for livestock feed.
3A R, 44 (fungicide)	Ethos XB	bifenthrin, ( <i>B. amyloliquefaciens</i> )	2.8 – 8.5 fl oz	Do not make applications less than 30 days apart. PHI 18 days.
3 R	Fastac EC	alpha-cyhalothrin	2.8 - 3.8 fl oz	PHI 21 days. Do not graze or harvest treated soybean forage, straw, or hay for livestock feed.
4A	Gaucho 600	imidacloprid	1.6 - 3.2 fl oz per cwt of seed	Do not graze or feed livestock on soybean forage or hay.
3 R	Hero	zeta-cypermethrin and bifenthrin	4.0 - 10.3 oz	PHI 21 days. Do not make applications less than 30 days apart. Do not graze or harvest treated soybean forage, straw, or hay for livestock feed.
4A	Inovate Seed Protectant	clothianidin and fungicide seed treatments	4.74 fl oz/100 lbs seed	Foliar spray of clothianidin can be applied 45 days after planting Inovate Seed Protectant treated soybean seeds for mid to late season foliar insects. Do not apply more than a total of 0.2 lb active ingredient clothianidin per acre per season. Do not graze or feed soybean forage and hay to livestock.
3, 4A R	Justice	acetamiprid and bifenthrin	2.5 - 3.0 oz	PHI 30 days. Do not apply more than 2 applications per season. Do not apply more than once every 7 days. Do not graze or use cut forage or hay as an animal feed.
1A R	Lannate LV	methomyl	0.5 - 1 pt	PHI 14 days for grain. PHI 3 days for forage. PHI 12 days for hay. Do not apply more than 4.5 pts/acre during a growing season or more than 3 applications per crop.
3, 4A R	Leverage 360	imidacloprid	2.8 fl oz	PHI 21 days for seed and 15 days for dry vines (hay)

		and cyfluthrin		and green forage. Minimum of 7 day interval between applications. Maximum of 9.0 fl oz/acre per crop season.
1B R	Lorsban Advanced, Nufos 4E	chlorpyrifos	1 - 2 pts	PHI 28 days. Do not apply more than 3 applications of Lorsban Advanced or other product containing chlorpyrifos per year. Limit 6 pints per acre per season. Do not make a second application of Lorsban Advanced within 14 days of the first application. Do not allow meat or dairy animals to graze in treated areas or otherwise feed treated soybean forage, hay, and straw to meat or dairy animals.
1B R	Methyl 4 EC	methyl parathion	0.75 - 1 pt	PHI 20 days for harvest and grazing. Do not make more than 2 applications per year.
3 R	Mustang MAX EC	zeta-cypermethrin	2.8 - 4.0 fl oz	PHI 21 days. Do not graze or harvest treated soybean forage, straw, or hay for livestock feed. Use higher recommended dosage for increased pest pressure, increased residual pest control or later-season applications.
1B R	Orthene 90S, Bracket 90WDG	acephate	0.83 - 1.1 lbs	PHI 14 days. Air applications - 5-10 gal/acre spray solution. Ground Application - 10-50 gal/acre spray solution.
1B R	Pennacp-M	methyl parathion	1 - 3 pts	PHI 30 days for harvest or grazing. Do not make more than 2 applications per season. Do not apply more than once every 7 days.
4A	Poncho/Votivo	clothianidin	Pre-treated seed. 0.13 mg ai/kernel	Foliar spray of clothianidin can be applied 45 days after planting PONCHO/VOTIVO treated soybean seeds for mid to late season foliar insects. Do not graze or feed soybean forage and hay to livestock.
3 R	Proaxis	gamma-cyhalothrin	1.92 - 3.2 fl oz	PHI 45 days. Do not graze or harvest treated soybean forage, straw, or hay for livestock feed.

3A, 9D <b>R</b>	Renestra	afidopyropen and alpha-cypermethrin	6.8 fl oz	PHI 21 days. Maximum amount applied per year is 13.7 fl oz per acre. Minimum re-treatment interval is 7 days. Do not feed or graze soybean hay or forage.
3 <b>R</b>	Respect	zeta-cypermethrin	2.8 - 4.0 fl oz	PHI 21 days. Do not graze or harvest treated soybean forage, straw, or hay for livestock feed.
9D	Sefina Inscalis	afidopyropen	3 fl oz	PHI 7 days. Minimum re-treatment interval is 7 days. Do not apply more than 6 fl oz per acre per year.
3A, 1B <b>R</b>	Stallion	zeta-cypermethrin and chlorpyrifos	5.0 - 11.75 fl oz	PHI 28 days. Do not make applications of Stallion less than 14 days apart. Do not make more than 3 applications per season. Do not allow meat or dairy animals to graze in treated areas or otherwise feed treated soybean forage, hay, and straw to meat or dairy animals.
3A <b>R</b>	Steed	zeta-cypermethrin and bifenthrin	3.5 - 4.7 fl oz	PHI is 21 days. Do not make applications less than 30 days apart and do not apply more than 28.1 fl oz per acre per season. Do not graze or harvest treated soybean forage, straw or hay for livestock feed.
3A, 4A <b>R</b>	Swagger	bifenthrin and imidacloprid	7.6 - 12.2 fl oz	PHI 18 days. Minimum interval between applications: 30 days. Apply a maximum of 2 applications per season.
4C	Transform WG	sulfoxaflor	0.75 - 1 fl oz	PHI 7 days. Apply a maximum of 4 applications per crop.
3A, 4A <b>R</b>	Triple Crown	zeta cypermethrin, bifenthrin and imidacloprid	3.5 - 4.8 fl oz	PHI 21 days. Minimum application interval: 30 days. Do not graze or harvest treated soybean forage, straw or hay for livestock feed.
1B, 3 <b>R</b>	Tundra Supreme	chlorpyrifos and bifenthrin	5.6 - 16.8 fl oz	PHI 28 days. Do not allow meat or dairy animals to graze in treated areas or otherwise feed treated soybean forage, hay and straw to meat or dairy animals.
3 <b>R</b>	Warrior w/	lambda-	1.92 - 3.20 fl oz	PHI 30 days. Do not graze or harvest treated

	Zeon Technology, Silencer	cyhalothrin		soybean forage, straw or hay for livestock feed.
3 R	Warrior II w/ Zeon Technology	lambda- cyhalothrin	0.96 - 1.60 fl oz	PHI 30 days. Do not graze or harvest treated soybean forage, straw or hay for livestock feed.