

Insecticide Treatment Options for Spider Mite in Field Corn

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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; 1B = Organophosphates
- Group 3 = Sodium channel modulators
- Group 10 = Mite growth inhibitors; 10A = Hexythiazox, 10B = Etoxazole
- Group 12 = Inhibitors of oxidative phosphorylation, disruptors of ATP formation (inhibitors of ATP synthase); 12C = Propargite
- Group 23 = Inhibitors of lipid synthesis

R = Restricted-Use Product

Mode Of Action	Product Name	Common Name	Rate (Formulation/Acre)	Restrictions/Comments
3 R	Brigade 2EC, Discipline 2EC, Fanfare 2EC, Sniper, Tundra EC	bifenthrin	5.12-6.4 fl oz	PHI 30 days. Do not graze livestock in treated areas or cut treated crops for feed within 30 days of the last application. Do not make aerial or ground applications to corn if heavy rainfall is imminent. Apply a minimum of 2 gallons of finished spray per acre by aircraft or 10 gallons with ground equipment.
12C R	Comite	propargite	32-48 fl oz	PHI 30 days for harvest. PHI 30 days for grazing or cutting for silage. Ensure application is made only when leaves are dry. Treat early when corn is small enough (3-4 ft) to allow good coverage. Two gallons per acre minimum spray volume by air and 20 gallons per acre minimum spray volume by ground. May be applied once per year.
12C R	Comite II	propargite	Early application of 18 fl oz followed by Mid-Late season application of 36 fl oz OR Single application of 36-54 fl oz	PHI 30 days for harvest. PHI 30 days for grazing or cutting for silage. Ensure application is made only when leaves are dry. Treat early when corn is small enough (3-4 ft) to allow good coverage. Three gallons per acre minimum spray volume by air and 20 gallons per acre minimum spray volume by ground.

1B	Dimethoate 400	dimethoate	0.66-1.0 pt	PHI 28 days for grain harvest. PHI 14 days for forage. Do not apply during the pollen-shed period.
3 R	Ethos XB	bifenthrin	6.8-8.5 fl oz	PHI 30 days for grain, silage and grazing.
3 R	Hero	zeta-cypermethrin and bifenthrin	10.3 fl oz	PHI 30 days for grain and stover. PHI 60 days for forage. Do not graze livestock in treated areas or cut treated crops for feed within 30 days of the last application.
23	Oberon 2SC	spiromesifen	5.7-16.0 fl oz	PHI 30 days for grain or stover. PHI 5 days for green forage and silage. Minimum application volume; 10 GPA by ground, 5 GPA by air. May be chemigated. Maximum of 2 applications per crop season.
23	Oberon 4SC	spiromesifen	2.85-8.0 fl oz	PHI 30 days for grain or stover. PHI 5 days for green forage and silage. Minimum application volume; 10 GPA by ground, 5 GPA by air. May be chemigated. Maximum of 2 applications per crop season.
10A	Onager	hexythiazox	10-24 fl oz	PHI 30 days for grain, forage and stover. *May only be applied west of highway 281 in Nebraska. Minimum application volume; 15-20 GPA by ground, 5 GPA by air. May be applied once per year.
1B, 3 R	Tundra Supreme	chlorpyrifos and bifenthrin	13.5-16.8 fl oz	PHI 30 days for grain and silage. Do not graze livestock in treated areas or cut treated crops for feed within 30 days of the last application. Do not apply in tank mixes with Steadfast or Lightning herbicides.
10B	Zeal SC	etoxazole	2-6 fl oz	PHI 21 days. Do not apply more than 2 times per season or less than 14 days apart.