

Field and silage corn—Corn earworm

Helicoverpa zea

Pest description and crop damage Large green, brown, or yellow worms that feed within silk and ears. First-generation larvae may feed as “bud worms,” damaging leaf whorls and newly forming ears.

Management—chemical control

1. bifenthrin (Capture 2EC) at 0.03 to 0.1 lb ai/a. PHI 30 days for harvest, grazing, or cutting for feed. REI 12 hr. Do not apply more than 0.3 lb ai/a per season. Do not apply on the ground within 25 ft of an aquatic habitat, or within 150 ft when applied from the air. ULV not permitted.
2. carbaryl at 1 to 2 lb ai/a. PHI 14 days for forage or silage grazing, and 48 days for grain harvest. REI 12 hr. Do not exceed four applications or 8 lb ai/a per season. **Warning:** Do not use carbaryl in areas where bees are active. Latex-based formulations, such as Sevin XLR Plus, are less hazardous to bees.
3. chlorpyrifos (Lorsban 4E) at 0.75 to 1 lb ai/a. PHI 35 days for grain harvest or corn fodder and 14 days for grazing or silage harvest. REI 24 hr. Apply as a broadcast spray. Do not exceed 3 lb ai/a per season. **Warning:** Do not use Lorsban in areas where bees are active.
4. cyfluthrin (Baythroid 2) at 0.0125 to 0.022 lb ai/a. PHI zero days for green forage and 21 days for grain or fodder. REI 12 hr. Do not exceed four applications or 0.175 lb ai/a per season. Do not apply within 25 ft of an aquatic habitat, within 150 ft when applied from the air, or within 450 ft when using a ULV.
5. deltamethrin 1.5 EC (Decis, Delta Gold) at 0.018 to 0.022 lb ai/a. PHI 21 days for grain or fodder, or 12 days for forage or grazing. REI 12 hr. Do not apply more than 0.095 lb ai/a per season.
6. esfenvalerate (Asana XL) at 0.03 to 0.05 lb ai/a. PHI 21 days. REI 12 hr. Do not exceed 0.25 lb ai/a per season.
7. gamma cyhalothrin (Proaxis) at 0.01 to 0.015 lb ai/a. Effective prior to larvae entering the ear only. PHI 1 day for grazing and forage, or 21 days for fodder and silage. REI 24 hr.
8. HZNPV (Gemstar LC)—Insecticidal virus product. WA only.
9. lambda-cyhalothrin (Warrior) at 0.015 to 0.025 lb ai/a. PHI 1 day for grazing or corn forage or 21 days of grain harvest or cutting for fodder or silage. REI 24 hr. Do not apply more than 0.12 lb ai/a per season, 0.06 lb ai/a after silk initiation, or 0.03 lb ai/a after milk stage. Do not apply within 25 ft of an aquatic habitat, or within 150 ft when applied from the air.
10. methomyl (Lannate) at 0.22 to 0.45 lb ai/a. PHI 21 days for ears, 3 days for forage, 21 days for fodder. Do not exceed 2.25 lb ai/a or 10 treatments per season. REI 48 hr. Do not apply within 25 ft of an aquatic habitat, within 100 ft when applied from the air, or within 450 ft when using a ULV.
11. methyl parathion 4EC at 0.25 lb ai/a. REI 5 days where annual rainfall is less than 25 inches or 4 days where it exceeds 25 inches. PHI 12 days.
12. permethrin (Ambush, Pounce) at 0.1 to 0.2 lb ai/a. PHI zero days for forage; 30 days for grain harvest or fodder. REI 12 hr. Allow 6 days between treatments. Do not apply more than 0.6 lb ai/a per season.
13. spinosad (Success) at 0.05 to 0.094 lb ai/a. PHI 7 days for forage harvest or 28 days for grain or fodder harvest. REI 4 hr. Do not exceed 0.19 lb ai/a per season.
14. zeta-cypermethrin (Mustang) at 0.022 to 0.05 lb ai/a. PHI 30 days for grain and stover and 60 days for forage. Do not exceed 0.2 lb ai/a per season. REI 12 hr. Do not apply within 25 ft of an aquatic habitat, within 150 ft when applied from the air, or within 450 ft when using a ULV.