GRAIN MILLET INSECT CONTROL (Pearl millet for grain production)

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| PEST | INSECTICIDE | MOA | AMOUNT PER ACRE | LB ACTIVE INGREDIENT PER ACRE | REI/PHI (Hours or Days) | WHEN TO TREAT, REMARKS AND PRECAUTIONS |
|--------------------------------------------------|---------------------------------------------------------------------------|--------------|---------------------------------|-------------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Soil insects: wireworms | <i>imidacloprid</i> Gaucho 600, Attendant 600, Axcess, other brands | 4C | 6.4 fl oz/ 100 lb of seed | _ | 12 H/ 45 D grazing | Seed treatments also may suppress aphids for 2–3 weeks after planting. |
| | <i>thiamethoxam</i> Cruiser 5FS | 4C | 0.75–1.33 fl oz/ 100 lb seed | _ | 12 H/ 45 D | |
| Chinch bug, False chinch bug | <i>alpha-cypermethrin</i> Fastac CS, other brands 0.83 | 3A | 3.8 fl oz | 0.025 | 12 H/ 45 D forage | Inspect seedlings soon after emergence. Apply after planting when stunting and discoloration are visible and bugs are present. In wide rows, direct spray at base of plants. In narrow rows, broadcast application. Use at least 10 gal of spray mix/A. Spr for thorough coverage. Applications to dense foliage and after boot stage may not be effective. NOTE: <i>Imidacloprid</i> seed treatment also may suppress chinch bugs on seedlings for 2–3 weeks. |
| | <i>beta-cyfluthrin</i> Baythroid XL 1 | 3A | 2.4 fl oz | 0.019 | 12 H/ 30 D | |
| | spinosad + gamma cyhalothrin Consero | 5 + 3A | 3.05 fl oz | _ | 24 H/ 30 D | |
| | <i>zeta-cypermethrin</i> Mustang Maxx 0.8 | 3A | 4 fl oz | 0.025 | 12 H/ 14 D | |
| Lesser cornstalk borer | <i>zeta-cypermethrin</i> Mustang Maxx 0.8 | 3A | 4 fl oz | 0.025 | 12 H/ 14 D | Very difficult to control. Broadcast application may provide some control. Do not plant millet into burnt crop stubble. |
| Fall armyworm and other worms in the whorl | <i>alpha-cypermethrin</i> Fastac CS, other brands 0.83 | 3A | 3.8 fl oz | 0.025 | 12 H/ 14 D | Millet is very tolerant of whorl stage defoliation. Treat when 50% of whorls are infes and larvae are present. Blackhawk/Tracer is most effective against smaller larvae. |
| | <i>chlorantraniliprole</i> Prevathon 0.43 | 28 | 14–20 fl oz | 0.047-0.067 | 4 H/ 1 D | |
| | <i>beta-cyfluthrin</i> Baythroid XL 1 | 3A | 2.4 fl oz | 0.019 | 12 H/ 30 D | |
| | spinosad + gamma cyhalothrin Consero | 5 + 3A | 3.05 fl oz | _ | 24 H/ 30 D | |
| | <i>spinosad</i> Blackhawk (36%) | 5 | 1.7–3.3 oz | 0.038-0.075 | 4 H/ 7 D | |
| | <i>zeta-cypermethrin</i> Mustang Maxx 0.8 | 3A | 4 fl oz | 0.025 | 12 H/ 14 D | |

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| Headworms: corn earworm, fall armyworm, sorghum webworm | <i>alpha-cypermethrin</i> Fastac CS, other brands 0.83 | 3A | 3.8 fl oz | 0.025 | 12 H/ 14 D | Larvae chew and damage or destroy seed. Treat when 1 or more earworms and armyworms, or 5 or more sorghum webworms per grain head are present. |
| | chlorantraniliprole Prevathon 0.43 Vantacor 5.0 | 28 | 14–20 fl oz 1.2–2.5 fl oz | 0.047–0.067 0.047-0.098 | 4 H/ 1 D | Blackhawk/Tracer is most effective against smaller larvae. |
| | spinosad + gamma cyhalothrin Consero | 5 + 3A | 3.05 fl oz | _ | 24 H/ 30 D | |
| | <i>spinosad</i> Blackhawk (36%) | 5 | 1.7–3.3 oz | 0.038-0.075 | 4 H/ 7 D | |
| | zeta-cypermethrin Mustang Maxx 0.8 | 3A | 4 fl oz | 0.025 | 12 H/ 14 D | |
| Stink bugs, Leaffooted bugs | <i>alpha-cypermethrin</i> Fastac CS, other brands 0.83 | 3A | 1.8–3.8 fl oz | 0.012-0.025 | 12 H/ 14 D | Infest grain heads, feeding causes shriveled seed. Threshold: 3 bugs/ head at milk stage; 5 bugs/head at dough stage. Do not treat after medium dough stage. |
| | <i>beta-cyfluthrin</i> Baythroid XL 1 | 3A | 1.8–2.4 fl oz | 0.014-0.019 | 12 H/ 30 D | |
| | spinosad + gamma cyhalothrin Consero | 5 + 3A | 2.0–3.05 fl oz | _ | 24 H/ 30 D | |
| | <i>zeta-cypermethrin</i> Mustang Maxx 0.8 | 3A | 3.2-4 fl oz | 0.02-0.025 | 12 H/ 14 D | |
| False chinch bugs on seed heads | <i>alpha-cypermethrin</i> Fastac CS, other brands 0.83 | 3A | 3.2–3.8 fl oz | 0.02-0.025 | 12 H/ 14 D | Treat when 100 bugs/head are present in milk to soft dough stage. |
| | <i>zeta-cypermethrin</i> Mustang Maxx 0.8 | 3A | 3.2-4 fl oz | 0.02-0.025 | 12 H/ 14 D | |

Disease Control-Except for seed treatments, there are no fungicides labeled for use on pearl millet at this time.

PEARL MILLET FOR GRAIN WEED CONTROL

| | | BROADCAST | RATE/ACRE | | |
|----------------------------|-----|-------------|---------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | AMOUNT OF | POUNDS ACTIVE | REI/PHI | |
| HERBICIDE | MOA | FORMULATION | INGREDIENT | (Hours or Days) | REMARKS AND PRECAUTIONS |
| | | | PREEMERGEN | | |
| mesotrione Callisto 4SC | 27 | 3-6 oz/A | 0.095–0.188 | 12 H/ | Callisto will provide preemergence control of large crabgrass and various pigweed species. Apply after planting but before crop emergence. Callisto may cause temporary crop injury in the form of bleaching or whitening. Applications of Callisto to emerged pearl millet will result in severe crop injury. Callisto rotational crop restrictions: field corn, grain sorghum—0 months; small grains and sugarcane—4 months; soybeans, cotton, peanuts, sunflowers, canola, tobacco—10 months; other crops—18 months. |
| | | | POSTEMERGEI | NCE | |
| 2,4-D amine 3.8 SL | 4 | 16 oz | 0.475 | 48 H/ Forage 7 D | 2,4-D is very effective on common broadleaf weeds such as pigweed and morningglory. Apply when weeds are small and after crop is tillered but before jointing stage of growth. Do not apply before tillering stage or during early boot through milk stage of growth. |