

Nematode Management Field Crops

Nematode Management in Field Crops

All crops grown in Louisiana are subject to some type of nematode attack. Some nematodes such as root-knot or cyst may be very damaging, but others such as stunt or spiral may not. Different crops or even varieties may differ in their response to various nematodes. Chemical control should be used if a nematode population appears to be at damaging levels and is likely to cause significant yield loss.

Table 1. Recommended nematicides, rates and restrictions for managing nematodes in field crops

Crop	Product Choices¹	Rate²	Comments
Cotton	Telone II	3-6 gal/A	Apply fumigant 1 week before planting to at least 14 inches beneath the soil surface of the row. Soil should not be excessively wet at the time of application.
	AgLogic 15G	3.5-7 lbs/A 5 lbs/A	Apply granules in seed furrow and cover with soil. Side-dress granules in furrow 6-10 inches on side of row. Apply once at 3 weeks through first squaring.
	Vydate C-LV (oxamyl)	17 fl oz (first and second application at 17 fl oz)	Apply at 1-7 true leaf stage and a second application 14 days later. Use after initial treatment with a nematicide. For reniform, root-knot and lance nematodes.
	Acceleron INT-710	Seed application	Use where low-moderate levels of nematodes are present.
	Avicta Duo COT202 Avicta Duo Cotton	Preordered seed treatment	Use in fields with low-moderate nematode levels only.
	Poncho Votivo	Seed application	For low-moderate nematode levels.
	AERIS Seed Applied System	Pre-ordered seed treatment	For low-moderate nematodes.
	Majestene	7.2-19.6 fl oz/1,000 foot row	For low-moderate nematode levels.
	Velum Total	14-18 fl oz/a	In-furrow spray on or below seed.
Corn Grain sorghum	Mocap 15G (ethoprop)	10-13 lb (40-in rows)	Apply in a 12-15 inch band at planting. Incorporate into top 2-4 inches of soil.
	Counter 15G Lock 'n Load Counter 20G Lock 'n Load Counter 20G Smartbox	6-8 oz/1000 ft 4.5-6 oz/1,000 ft	Apply in a 7 inch band. Apply in a 4-5 inch band over open seed furrow in front of press wheel or apply in furrow.
	Avicta Complete Corn 250 Avicta Complete Corn 500 Avicta Duo Corn Avicta Duo 250 Corn	Pre-ordered seed treatment	Use in fields with low-moderate nematode levels only.
	Poncho Votivo	Seed application	
	Telone II	3-6 gal	Apply 1 week pre-plant and 14- inches beneath the row.
	Counter 15G Lock 'n Load Counter 20G Lock 'n Load Counter 20 Smartbox	7 oz/1,000 row feet 5.2 oz/1,000 row feet	Apply in a 5-7-inch band behind planter shoe in front of press wheel and lightly incorporate with chains or tines.
	Poncho Votivo	Seed application	

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Crop	Product Choices ¹	Rate ²	Comments
Peanut	Vydate C-LV	34-68 fl oz 17 fl oz (foliar)	Apply in a 7-inch band and incorporate. Apply 28 days after planting and again in 14 days.
	Velum Total	18 fl oz/a	In-furrow spray on or below seed.
SoybeanSoybean	Poncho Votivo	Seed application	Use for low-moderate populations of nematodes. When high nematode levels are present, use additional management measures.
	ILeVO	Seed application	
	Avicta Complete Beans 500	Seed application	
	Majestene	7.3-19.6 fl. Oz/1000 row feet	Apply at-planting infurrow or in a T-band.
	Telone II	3-6 gal/a	Apply pre-plant under the row. For heavy nematode pressure.
Sugarcane	Mocap 15G	1.8-3.6 lbs/1,000 row 3.5-7 pints/a	Apply in a 12-15-inch band over seed pieces and cover with soil.
	Nimitz		Apply at-planting or at ratoon.
Sweet potato	Mocap 15G	1.6-2.1 lb/1,000	Apply in a 12-15-inch band.
	Mocap EC	5.1-6.9 oz/1,000 row ft	
	Nimitz	3.5-7 pints/A	Application can be made at planting or pre-plant. Apply in a moist, well-prepared seedbed.
	AgLogic 15G	10-20 lbs/A	Apply in a 12 band over open furrow or soil surface and cover immediately during bed forming.
	Vydate L	2 gal/20 gal of water (pre-plant) 1-2 gal (in-furrow)	Apply within a week of planting and incorporate 4-6 inches. Apply in at least 200 gal of transplant water during planting of slips (in-furrow).
	Dominus	10-40 gal/A	Wait at least 10-14 days after application before planting.
	Movento	4.0-5.0 fl oz/A	Apply in minimum of 10 gal of water and spray when sufficient foliage is present for uptake by the plants. Maximum of 10 fl oz per crop season.
	Velume Prime	6.0-6.84 fl oz/A	Apply using overhead chemigatin equipment. If high levels of root-knot nematode are present, use other suppressive measures as well.
	Telone II	3-6 gals/A	Apply pre-plant beneath the row.
Majestene	4-8 qts/A	Apply in sufficient water to thoroughly soak root zone or apply prior to, at, or shortly thereafter at transplant.	

¹Reference to commercial or trade names is made with the understanding that no discrimination or endorsement of a particular product is implied by LSU or the LSU AgCenter.

²Rates are the amount of formulation (product) per acre unless otherwise indicated.

The nematode sections were revised October 2019 by Dr. C. Overstreet.