TABLE 12.1. General host status of field crops for the common southern plant-parasitic nematode species

Nematode Common name Genus species	Cotton Gossypium hirsutum	Soybeans Glycine max	Corn Zea mays	Peanuts Arachis hypo- gaea	Wheat Triticum aestivum
Southern root-knot	Host ¹	Host ¹	Host	Non-host	Non-host
Meloidogyne incognita race 3, 4					
Peanut root-knot	Non-host	Host	Host	Host ¹	Non-host
Meloidogyne arenaria race 1					
Javanese root-knot	Non-host	Host	Host	Non-host	Non-host
Meloidogyne javanica					
Reniform	Host	Host ¹	Non-host	Non-host	Non-host
Rotylenchulus reniformis					
Soybean cyst	Non-host	Host ¹	Non-host	Non-host	Non-host
Heterodera glycines					
Lesion	Host	Host	Host	Host	Host
Pratylenchus spp.					
Lance	Host	Host	Host	Non-host	Host
Hoplolaimus spp.					
Sting	Host	Host	Host	Host	Host
Belonolaimus spp.					
Stubby-root	Non-host	Non-host	Host	Non-host	Host
Paratrichodorus spp.					

¹Resistant or tolerant cultivars may be available for these crops. Check with your state Extension service or seed supplier for the most recent information on cultivars.

TABLE 12.2. Nematicides registered on cotton, corn and soybeans

Chemical name	Trade name	Formulation	Label application rate	
1, 3-dichloropropene	Telone II	Fumigant	3–6 gallons per acre. Apply as a broadcast or row treat- ment with a fumigant shank. Shank trace should be sealed with soil to prevent loss of fumigant. Leave soil undis- turbed for 7 days after application.	
Sodium methyldithiocarbamate (anhydrous)	Vapam HL	Fumigant	37.5–75 gallons per acre depending on crop, target pest and soil conditions. Apply post harvest and 14–21 days prior to planting a new crop.	
Potassium N- methyldithiocarbamate	K-pam	Fumigant	30–60 gallons per acre depending on crop, target pest and soil conditions. Apply post harvest and 14–21 days prior to planting a new crop.	
Ethoprophos	Мосар	Liquid and granules	0.75–1 pound of active ingredient of a 15 percent material per 1,000 feet of row in a band 12–15 inches wide over the row. Mix with the top 2–4 inches of soil with mechanical equipment right after application.	
Terbufos	Counter	Granules	6–8 ounces per 1,000 feet of row for any row spacing. Do not exceed 8.7 pounds per acre.	
Aldicarb	Meymik	Granules	3.5–10 pounds per acre. Drill granules just below seed line or place in the seed furrow and cover with soil. If rate exceeds 7 pounds per acre, apply granules in a 4- to 6-inch band and work into the soil or cover with soil. Plant seed in or above the zone. Sidedress granules 8–16 inches to one or both sides of the plant row at 2–5 inches deep at a rate of 5–14 pounds per acre.	
Oxamyl	Vydate	Liquid	17 ounces per acre. Foliar applications must follow a pre-plant soil fumigant or an at-planting band or in- furrow application of a contact nematicide. Vydate C-LV can be applied as a single or a sequential broadcast rate of 8.5–17 ounces. The initial application in the 2nd to 5th true leaf stage and repeating 7–14 days later.	
Thiodicarb and Imidacloprid	Aeris and Gaucho	Seed treatment	0.75 mg ai/seed + 0.375 mg ai/seed. All seed-applied components are applied by the manufacturer.	
Abamectin and Azox- ystrobin and Fludioxonil and Mefenoxam and Thiamethoxam	Avicta and Dynasty and Cruiser	Seed treatment	0.15 mg ai/seed + 0.34 mg ai/seed +0.03mg ai/seed. All seed-applied components are applied by the manufacturer.	
Fluopyram and Imidacloprid	Velum Total	In-furrow spray	10–18 fluid ounces per acre. Apply as an in-furrow spray at planting.	
Harpin protein	N-Hibit	Seed treatment	3 ounces per hundredweight of seeds. Apply to seed in a sufficient amount of water to provide good coverage up to 24 hours prior to application.	
Paecilomyces lilacinus	Nem-Out	Soil drench	0.15–0.30 pounds per acre applied as a soil drench in 30–40 gallons of water	
Pasteuria spp.	Clariva Elite	Seed treatment	5.6 fluid ounces per hundredweight of seeds	
Bacillus firmus	VOTiVO FS	Seed treatment	7 fluid ounces per hundredweight. All seed-applied components are applied by the manufacturer.	