


**Auburn University Plant Diagnostic Laboratory**

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**NEMATODE ASSAY REPORT Specimen # 2019-573**

SUBMITTED BY Tom Davis 13600 Tom Gaston Road Mobile, AL 36695 <a href="mailto:tom@davis360.com">tom@davis360.com</a>		PLANT Vegetables ( <i>Mixed sp.</i> )		METHOD SUBMITTED Mail
		VARIETY		CLASS Vegetable
		INTERNAL LAB NO. Big Garden	LAB FEE \$10.00	REPLY FROM LAB September 9, 2019
PHONE 251-222-5796	COUNTY MOBILE, AL	SAMPLE MATERIAL Soil	AGE	RECEIVED BY LAB August 21, 2019
CONDITION UPON ARRIVAL Good		DIAGNOSTICIAN(S) Kristie Siggers		
GENERAL OBSERVATIONS		DIAGNOSTIC TECHNIQUE(S) <input type="checkbox"/> Macroscopic <input type="checkbox"/> Extract & ID <input type="checkbox"/> Moist Chamber <input checked="" type="checkbox"/> Microscopic <input type="checkbox"/> Gas Chr. <input checked="" type="checkbox"/> Other <input type="checkbox"/> Elisa <input type="checkbox"/> Host Inoc. <input type="checkbox"/> PCR <input type="checkbox"/> EM & Sect. <input type="checkbox"/> Incl. Bdy <input type="checkbox"/> pH <input type="checkbox"/> EM QD <input type="checkbox"/> Lab Culture <input type="checkbox"/> Salt / EC <input type="checkbox"/> EM SSEM <input type="checkbox"/> Media <input type="checkbox"/> Techniques <input type="checkbox"/> Epifluor. <input type="checkbox"/> MIS <input type="checkbox"/> Visual		

**Assay Results**

<b><u>NEMATODE TYPE</u></b>	<b><u>SOIL (NO./ 100 cc)</u></b>	<b><u>ROOTS (NO./ 10 grams)</u></b>	<b><u>TURF (NO./ 4 plugs)</u></b>
Root-knot ( <i>Meloidogyne</i> )	60		
Lesion ( <i>Pratylenchus</i> )	4		
Spiral ( <i>Helicotylenchus</i> )	16		
Stubby root ( <i>Trichodorus</i> )	4		
Ring ( <i>Mesocriconema, etc.</i> )	32		

**Diagnosis/Recommendations**

**Diagnosis:** Root-knot Nematode Damage (*Meloidogyne incognita*)

**Determination:** This crop is at high risk of damage caused by the nematodes indicated.

**Comments:** Root-knot nematodes were found in the soil sample submitted to the Diagnostic Lab for nematode analysis. Root-knot nematodes are a major problem on vegetables, especially on broadleaf types like tomato, bean and cucurbits. The other nematodes detected are not a significant problem for vegetables. Please refer to the attached extension circular ANR-30 on controlling nematodes in the home garden.

Control of root-knot nematodes in a homeowner garden is limited to choosing resistant varieties, rotation with non-host crops, fallowing, soil solarization, decreasing plant stress (proper irrigation and fertilization), and adding soil amendments to improve soil composition, moisture-holding capacity and physical characteristics.