

‘GEORGIA-21GR’

A New High-Yielding, High-Grading, Normal to Mid-Oleic, TSWV-Resistant, Runner-Type Peanut Variety

by

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‘Georgia-21GR’ is a new high-yielding, high-grading, normal to mid-oleic, TSWV-resistant, runner-type peanut variety that was released in 2021 by the Georgia Agricultural Experiment Stations. It was developed at the University of Georgia, Coastal Plain Experiment Station in Tifton, GA.

Georgia-21GR has a significantly higher percentage of total sound mature kernel (TSMK) grade compared to the Georgia-06G runner variety in Georgia (Table 1). It has low TSWV and total disease incidence and high pod yield and dollar values similar to Georgia-06G when averaged over six years (20 tests) across multilocations in Georgia.

Although Georgia-21GR also has a lower percentage of fancy pods compared to Georgia-06G, it still has a similar percentage of jumbo, medium, and no. 1 seed size distribution as Georgia-06G (Table 2). Georgia-21GR combines the potential for very high yield, grade, and dollar value with high TSWV resistance and normal to mid-oleic fatty acid ratio.

Very limited seed supplies will be available for Georgia-21GR in the 2022 planting season. So, interested seedmen and growers should consider an early seed request for the upcoming growing seasons.

Table 1. SIX-YEAR (20 TESTS) AVERAGE DISEASE INCIDENCE, POD YIELD, TSMK GRADE, SEED COUNT, AND DOLLAR VALUES OF TWO RUNNER-TYPE PEANUT GENOTYPES, GEORGIA-21GR VS. GEORGIA-06G ACROSS MULTILOCATIONS IN GEORGIA, 2015-20.

Runner Variety	TSWV* (%)	TD** (%)	Yield (lb/a)	TSMK*** (%)	Seed (no./lb)	Value (\$/a)
Georgia-21GR	8	22	5251	80	665	1009
Georgia-06G	7	23	5077	77	627	943

*TSWV = Tomato Spotted Wilt Virus; **TD = Total Disease; ***TSMK = Total Sound Mature Kernels.

Table 2. SIX-YEAR (22 TESTS) AVERAGE SHELLING OUTTURN OF GEORIGA-21GR VS. GEORGIA-06G, 2015-20.

Runner Variety	Jumbo (%)	Med (%)	No. 1 (%)	TSMK (%)	OK (%)	DK (%)	Meat (%)	Hull (%)
Georgia-21GR	49	22	3	80	1	0	81	19
Georgia-06G	47	22	3	77	1	1	79	21