'GEORGIA-14N'

A New High-Yielding, High-Oleic, TSWV-Resistant, RKN-Resistant, Runner-Type Peanut Variety

by

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'Georgia-14N' is a new high-yielding, high-oleic, TSWV-resistant, and RKN-resistant, small-seeded, runner-type peanut variety that was released in 2014 by the Georgia Agricultural Experiment Stations. It was developed at the University of Georgia, Coastal Plain Experiment Station in Tifton, GA.

Georgia-14N is similar to other high-oleic, runner-type varieties in having high-oleic and low-linoleic fatty acid profiles. However, during three-years averaged over multilocation tests in Georgia, Georgia-14N had significantly less TSWV and total disease incidence and higher yield, grade, and dollar value return per acre compared to Tifguard (Table 1). Georgia-14N was also found to have a smaller runner seed size as compared to the larger RKN-resistant check variety, Tifguard which should save growers in seed cost.

During 2014, Georgia-14N and Tifguard were compared over multilocation tests in Georgia (Table 2). Georgia-14N was again found to have the best overall performance compared to Tifguard.

Limited seed supplies will be available for Georgia-14N in the 2016 planting season. So, interested growers should consider an early seed request for the upcoming growing season. Georgia-14N combines high-yield, TSWV resistance and RKN resistance with smaller seed size, and the high-oleic trait for longer shelf-life and improved oil quality of peanut and peanut products. Georgia-14N is especially recommended in fields with high RKN populations (Table 3).

Table 1. Three-Year (29 Tests) Average Field Performance without Nematode Pressure of Georgia-14N vs. Tifguard over Multilocations in Georgia, 2011-13.

Runner Variety	TSWV (%)	TD (%)	Yield (lb/a)	TSMK (%)	Seed (no./lb)	Value ($/a)
Georgia-14N	4	10	4696	76	796	882
Tifguard	8	14	4515	74	634	816

Table 2. 2014 Average Field Performance without Nematode Pressure of Two Runner-Type Varieties, Georgia-14N and Tifguard, over Multilocations in Georgia.

Runner Variety	TSWV (%)	TD (%)	Yield (lb/a)	TSMK (%)	Seed (no./lb)	Value ($/a)
Georgia-14N	1	5	4496	74	792	817
Tifguard	2	9	4370	71	618	760

Table 3. Two-Year (3 Tests) Average Root-Knot Nematode (RKN) Gall Rating and Pod Yield Performance of Georgia-14N and Tifguard vs. the susceptible check variety Georgia-07W in Field Tests with High RKN Populations near Tifton, GA 2011-12.

Runner Variety	Gall Rating (%)	Pod Yield (lb/a)
Georgia-14N	0.3	3566
Tifguard	1.5	3020
Georgia-07W (ck)	53.6	2006