

'GEORGIA-16HO'

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

by

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'**Georgia-16HO**' is a new high-yielding, high-oleic, TSWV-resistant, large-seeded, runner-type peanut variety that was released in 2016 by the Georgia Agricultural Experiment Stations. It was developed at the University of Georgia, Coastal Plain Experiment Station in Tifton, GA.

Georgia-16HO is similar to other high-oleic, runner-type varieties in having the high-oleic and low-linoleic fatty acid profile. However during three-years (2013-15) averaged over multilocation tests in Georgia, Georgia-16HO had less TSWV and total disease incidence and higher yield, grade, and dollar value return per acre compared to Florida-07, FloRun '107', and TUFRunner '727' (Table 1). Georgia-16HO was also found to have a large runner seed size similar to two of these other large-seeded, high-oleic, runner varieties, Florida-07 and TUFRunner '727'.

During the past two-years (2015-16) averaged over multilocation tests in Georgia, Georgia-16HO was again found to have less TSWV and total disease incidence and higher yield, grade, and dollar value return per acre compared to TUFRunner '297' and TUFRunner '511' (Table 2). Georgia-16HO was also found to have a large runner seed size similar to TUFRunner '511', but not as large of seed size as TUFRunner '297'.

Limited seed supplies will be available for Georgia-16HO in the 2017 planting season. So, interested growers should consider an early seed request for the upcoming growing season. Georgia-16HO combines high-yield, TSWV resistance with large runner seed size, and the high-oleic trait for longer shelf-life and improved oil quality of peanut and peanut products.

Table 1. Three-Year (23 Tests) Average Field Performance of Georgia-16HO vs. Five Other High-Oleic, Runner-Type Varieties over Multilocations in Georgia, 2013-15.

Runner Variety	TSWV* (%)	TD** (%)	Yield (lb/a)	TSMK*** (%)	Seed (no./lb)	Value (\$/a)
Georgia-16HO	2	9	5511	75	625	1009
Georgia-13M	2	7	5347	73	794	959
Georgia-09B	2	12	5268	75	674	955
TUFRunner™ '727'	8	21	5103	74	628	913
FloRun™ '107'	6	21	5040	72	684	889
Florida-07	5	18	5155	71	614	884

Table 2. Two-Year (19 Tests) Average Field Performance of Three High-Oleic, Runner-Type Varieties over Multilocations in Georgia, 2015-16.

Runner Variety	TSWV* (%)	TD** (%)	Yield (lb/a)	TSMK*** (%)	Seed (no./lb)	Value (\$/a)
Georgia-16HO	4	17	5343	75	625	969
TUFRunner™ '297'	6	20	5240	74	599	935
TUFRunner™ '511'	13	35	5098	74	616	914

*TSWV = Tomato Spotted Wilt Virus
Mature Kernels

**TD = Total Disease

***TSMK = Total Sound