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Peanut Variety Performance in Florida 2019 through 2022.

The information provided in the following tables is the result of research conducted by personnel from the UF-IFAS, North Florida Research and Education Center across the UF-IFAS Research and Education Centers located in the peanut growing regions of Florida. It is intended to provide peanut growers with objective information regarding peanut variety performance in Florida. Tests were conducted in accordance with accepted peanut production practices for weed, pest and disease control.

Table 1. Performance of runner market-type cultivars in **irrigated** tests in 3-4 locations in Florida over the past four years (2019-2022).

		YIELD (lbs./acre)				TSMK (%)			
Name	Maturity*	2022	2-YR†	3-YR††	4-YR†††	2022	2-YR	3-YR	4-YR
ACI 3321**	ML	6259	6400	6841	6259	67.5	73.6	73.7	72.7
AU-NPL 17**	M	6312	6386	6878	6312	73.3	75.6	76.1	75.2
FloRun™ '331'**	M	6995	7291	7724	6995	76.5	76.6	76.5	75.0
FloRun™ 'T61'**	M	6969	6889	7330	6969	73.4	76.4	76.6	75.3
Georgia-06G	M	5969	5788	6310	5969	76.2	77.5	78.9	77.4
Georgia-09B**	M	6257	6171	6643	6257	75.3	-	-	-
Georgia-12Y	ML	6265	6188	6619	6265	74.1	75.1	75.4	73.8
Georgia-16HO**	M	6486	6433	6920	6486	76.8	78.0	78.3	77.0
Georgia-18RU	ML	6731	6950	7395	6731	78.7	78.5	78.9	78.1
TifNV-High O/L**	M	5847	5842	6285	5847	73.4	75.9	75.9	74.5
TUFRunner™ '297'**	M	6334	6350	6766	6334	73.3	75.5	75.6	75.0
TUFRunner™ '511'**	M	-	6173	6537	6125	-	76.3	76.6	75.1
	LSD(0.05)	163	206	191	163	1.5	1.6	1.4	1.1

** *High Oleic*
†= 2021-2022; ††= 2018-2022; †††= 2019-2022

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Table 2. Performance of runner market-type cultivars in **non-irrigated** tests in two locations in Florida over the past four years (2019-2022).

		YIELD (lbs./acre)				TSWV (1-10)				Leafspot (1-10)			
Name	Maturity*	2022	2-YR†	3-YR††	4-YR†††	2022	2-YR	3-YR	4-YR	2022	2-YR	3-YR	4-YR
ACI 3321**	ML	5339	5742	5879	5400	1.2	1.4	1.0	1.0	2.4	2.2	2.6	2.5
AU-NPL 17**	M	5291	5406	5552	5291	1.1	1.4	1.0	1.1	2.3	2.2	2.6	2.5
FloRun™ '331'**	M	5472	6340	6532	6037	1.4	1.7	1.2	1.3	2.2	2.2	2.6	2.6
FloRun™ 'T61'**	M	5134	5861	5973	5440	1.2	1.4	1.0	1.0	2.4	2.5	2.9	2.8
Georgia-06G	M	5167	5199	5353	4998	1.2	1.8	1.2	1.2	2.3	2.0	2.4	2.4
Georgia-09B**	M	5361	5541	5703	5168	1.4	1.9	1.3	1.4	2.3	2.1	2.6	2.7
Georgia-12Y	ML	5436	5785	5856	5323	1.0	1.1	1.0	1.0	2.1	2.2	2.6	2.5
Georgia-16HO**	M	5483	5790	5913	5512	1.3	1.6	1.1	1.2	2.1	2.2	2.6	2.6
Georgia-18RU	ML	5024	6018	6174	5628	1.4	1.5	1.1	1.2	2.6	2.5	3.0	2.9
TifNV-High O/L**	M	5403	5445	5568	5015	1.1	1.3	1.0	1.0	2.1	1.9	2.3	2.3
TUFRunner™ '297'**	M	5524	5656	5733	5340	1.5	1.6	1.1	1.2	2.7	2.5	2.9	2.9
TUFRunner™ '511'**	M	-	5499	5587	5133	-	1.8	1.1	1.2	-	3.8	4.5	4.1
	LSD(0.05)	415	193	175	160	0.1	0.2	0.2	0.2	0.7	0.2	0.2	0.1

** *High Oleic*

†= 2021-2022; ††= 2018-2022; †††= 2019-2022

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Table 3. Performance of runner and Virginia market-types in individual seasons and locations under **irrigated** conditions in Florida during 2019-2022.

	Marianna					Gainesville					Live Oak				Overall				
Name	2022	2021	2020	2019	Mean	2022	2021	2020	2019	Mean	2022	2021	2019	Mean	2022	2021	2020	2019	Mean
RUNNER	---------- Pod Yield (lbs./A) ----------																		
ACI 3321**	5354	5006	6484	5624	5617	7774	6364	6787	7589	7243	7168	6522	7453	7048	6765	5964	6636	6889	6259
AU-NPL 17**	5378	4694	6957	5909	5734	8806	5274	5576	6085	6722	7938	6954	6784	7225	7374	5641	6267	6259	6312
FloRun™ '331'**	5090	4988	6255	5727	5515	9810	7463	7828	7049	8107	8829	7832	8275	8312	7909	6761	7041	7017	6995
FloRun™ 'T61'**	6130	5681	7221	-	6380	8502	6435	5814	-	7206	7957	7157	-	7523	7530	6424	6518	-	6969
Georgia-06G	5073	4577	7108	5744	5626	7884	5974	5385	6832	6933	8027	6322	7232	7194	6908	5624	6247	6603	5969
Georgia-09B**	5495	3997	6352	5018	5163	9297	7064	6986	6845	7735	8642	6977	7556	7725	8121	6013	6669	6473	6257
Georgia-12Y	5343	6324	6825	6525	6192	6761	5976	6924	6201	6313	7407	7301	6638	7115	6503	6534	6875	6455	6265
Georgia-16HO**	5716	5582	7507	6415	6305	7672	6468	6021	6601	6913	7591	7134	7645	7457	6993	6395	6764	6887	6486
Georgia-18RU	4773	5152	6311	5474	5427	9488	7800	7626	6587	7958	8988	6830	7918	7912	7750	6594	6969	6660	6731
Tifguard	-	-	5768	5274	5015	-	-	6394	5434	5960	-	-	6363	6430	-	-	6081	5690	5886
TifNV-High O/L**	4742	5144	6116	5720	5402	6905	5645	6324	5433	5994	7832	6919	6561	7104	6493	5903	6220	5905	5847
TUFRunner™ '297'**	4480	5604	6042	6281	5602	8471	5724	7106	6963	7053	8134	6640	7818	7531	7028	5989	6574	7020	6334
TUFRunner™ '511'**	-	5277	6530	5834	5731	-	6355	6663	6131	6825	-	6257	8038	7433	-	5963	6597	6668	6125
VIRGINIA																			
Bailey	5630	4880	5385	4925	5205	6459	6333	6402	5658	6150	7829	6489	6889	7069	6639	5901	5893	5824	5832
Florida Fancy**	-	5061	5783	4428	4941	-	5611	5856	5940	6358	-	6788	6638	6998	-	5820	5820	5669	5554
Walton**	4914	4693	6941	5796	5585	9202	7132	6336	6711	7682	7512	7172	6951	7211	7209	6332	6638	6486	6143
LSD	885	775	700	607	171	1475	837	758	715	269	1236	685	753	201	547	438	511	428	163

***High Oleic*

Table 4. Performance of runner and Virginia market-types in individual seasons and locations under **non-irrigated** conditions in Florida during 2019-2022.

Non-Irrigated	Marianna				Gainesville/Live Oak				Jay			Overall				
Name	2022	2021	2020	Mean	2022 (LO)	2021 (GV)	2019 (GV)	Mean (GV)	2022	2021	Mean	2022	2021	2020	2019	Mean
RUNNER	---------- Pod Yield (lbs./A) ----------															
ACI 3321**	4357	3729	5154	4015	6937	5174	4847	5606	4722	6001	5362	5134	4968	5154	4847	5400
AU-NPL 17**	4291	5073	5078	4079	6379	4392	5058	5166	5202	5519	5361	5099	4995	5078	5058	5291
FloRun™ '331'**	4234	4803	5746	4427	6500	5198	5270	6367	5792	6654	6271	4689	5552	5746	5270	6037
FloRun™ 'T61'**	4053	4445	5036	4153	7164	5011	-	5710	4185	6120	5152	5260	5192	-	-	5440
Georgia-06G	5349	3871	5470	4304	5780	5122	5293	5634	4448	3795	4121	5455	4263	5470	5293	4998
Georgia-09B**	4708	3687	5121	3850	6160	4284	4964	6014	5216	3486	4351	5293	3819	5121	4964	5168
Georgia-12Y	5178	5394	5547	4777	5998	4548	4089	5033	5063	4900	4982	5888	4947	5547	4089	5323
Georgia-16HO**	4180	5208	5278	4519	7028	4762	4970	5719	4481	5146	4825	5404	5039	5278	4970	5512
Georgia-18RU	3790	4931	5175	3970	6201	5207	5526	6663	5099	5782	5454	4004	5307	5175	5526	5628
TifNV-High O/L**	4451	4816	5071	4093	6485	5183	3461	4553	5274	4423	4848	4717	4807	5071	3461	5015
TUFRunner™ '297'**	5930	3730	5497	4587	6633	5265	5256	5490	4161	5371	4766	6474	4789	5497	5256	5340
TUFRunner™ '511'**	-	4002	5184	4165	-	4949	5008	5682	-	4789	-	-	4580	5184	5008	5133
VIRGINIA																
Bailey	5761	5028	5591	4363	7099	5294	5426	5880	4222	5140	4623	6572	5154	5591	5426	5387
Florida Fancy**	-	4440	4900	4126	-	5553	4767	5189	-	4158	-	-	4717	4900	4767	4975
Walton**	5360	3640	5502	4407	7402	5822	4953	6043	4106	3915	4069	5984	4459	5502	4953	5424
LSD	1034	991	484	176		465	687	251	1119	2138	469	634	790	484	687	160

***High Oleic*

Table 5 is the 2023 Peanut Rx variety risk point table and shows the relative risk of losses from three major diseases in the southeastern USA and includes the varieties resistant to root-knot nematode. Two new varieties were added in 2023 and are highlighted in bold font.

Table 5. The 2023 Peanut Rx variety risk point table; higher points mean higher risk of loss from disease.

Variety[1]	Spotted Wilt Points	Leaf Spot Points	White mold	Resistance Root-knot Nematode
AU NPL 17[2]	10	15	15	Susceptible
Bailey[2,3]	10	25	10	Susceptible
Florida Fancy[2]	25	20	20	Susceptible
FloRun™ '331'[2]	**20**	20	15	Susceptible
FloRunTM'T61'[1,2]	**10**	**20**	**20**	**Susceptible**
Georgia-06G	10	20	20	Susceptible
Georgia-09B[2]	20	25	25	Susceptible
Georgia-12Y[5]	5	15	10	Susceptible
Georgia-14N[2,4]	5	15	15	Resistant
Georgia-16HO[2]	10	25	20	Susceptible
Georgia-18RU	10	25	20	Susceptible
Georgia-20VHO[1,2]	**10**	**20**	**20**	**Susceptible**
Georgia Green[6]	30	20	25	Susceptible
Sullivan[2]	10	25	15	Susceptible
TifNV-HiOL[2,4]	5	15	15	**Resistant**
TUFRunner™ '297'[2]	10	25	20	Susceptible
TUFRunner™ '511'[2,6]	20	30	15	Susceptible

[1]*Adequate research data is not available for all varieties with regards to all diseases. Additional varieties will be included as data to support the assignment of an index value are available.*
[2]*High oleic variety.*
[3]*Variety Bailey II is similar in cahracteristics to 'Bailey' but is a high oleic chemistry. It also has increased resistance to Cylindrocladium black rot (CBR) as compared to other varieties commonly planted in Georgia.*
[4]*Tifguard, TifNV-HiOL and Georgia 14-N have excellent resistance to the peanut root-knot nematode.* [5]*Georgia-12Y appears to have increased risk to Rhizoctonia limb rot and precautions should be taken to protect against this disease.*
[6]*These varieties are rarely grown commercially anymore, but remain embedded in Peanut Rx as historic examples of how resistance to tomato spotted wilt disease and other diseases have changed over time.*