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Peanut Variety Performance in Florida 2020 through 2023.

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 as well as crop rotation.

Table 1. Pod yield performance and TSMK grade of runner market-type cultivars in **irrigated** tests in 3-4 locations in Florida over the past four years (2020-2023).

		YIELD (lbs./acre)				TSMK (%)			
Name	Maturity	2023	2022-23	2021-23	2020-23	2023	2022-23	2021-23	2020-23
ACI 3321**	ML	7875	7298	6854	6849	74.6	73.5	74.0	73.8
AU-NPL 17**	M	7596	7476	6862	6821	76.8	75.9	76.4	76.4
FloRun™ '331'**	M	8205	8018	7598	7567	75.8	75.7	76.1	76.0
FloRun™ '52N'	M	7992	7641	7134	7106	78.3	76.5	77.4	77.2
FloRun™ 'T61'**	ML	7737	7659	7253	7159	75.9	76.0	76.6	76.5
Georgia-06G	M	7810	7408	6791	6737	77.3	77.0	77.7	77.2
Georgia-09B**	M	-	8185	7276	7236	-	77.9	77.8	77.7
Georgia-12Y	L	8433	7415	7107	7117	75.4	74.6	74.8	74.9
Georgia-16HO**	M	7486	7242	6967	6981	77.9	77.9	78.4	78.4
Georgia-18RU	ML	8033	7854	7441	7411	78.2	78.5	78.9	78.8
TifNV-High O/L**	M	7578	7036	6644	6650	75.3	75.0	75.6	75.5
TUFRunner™ '297'**	M	7892	7460	6970	6956	76.1	75.8	76.0	75.9
TUFRunner™ '511'**	M	-	-	6863	6814	-	-	76.5	76.4
	LSD(0.05)	241	197	146	129	0.4	0.4	0.3	0.3

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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 (2020-2023).

Name	Maturity	YIELD (lbs./acre) 2023	2022-23	2021-23	2020-23	TSWV (1-10) 2023	2022-23	2021-23	2020-23	Leafspot (1-10) 2023	2022-23	2021-23	2020-23
ACI 3321**	ML	4431	4885	5070	5130	1.0	1.0	1.3	1.0	3.2	2.4	2.0	2.3
AU-NPL 17**	M	4723	5007	4976	4981	1.0	0.9	1.2	0.9	3.3	2.4	2.0	2.3
FloRun™ '331'**	M	5911	5693	5667	5708	1.2	1.2	1.3	1.1	2.3	2.0	1.8	2.1
FloRun™ '52N'	M	5471	5439	5310	5336	1.1	1.0	1.2	0.9	2.7	2.0	1.9	2.2
FloRun™ 'T61'**	M	5316	5225	5307	5329	1.6	1.3	1.4	1.1	2.5	2.2	2.0	2.3
Georgia-06G	M	4435	5068	4953	5010	1.2	1.1	1.3	1.0	2.3	2.0	1.8	2.1
Georgia-09B**	M	-	5279	4655	4699	-	1.3	1.9	1.5	-	2.1	1.9	2.3
Georgia-12Y	ML	4769	5051	4987	4999	1.0	0.9	0.9	0.7	3.3	2.3	2.0	2.3
Georgia-16HO**	M	5203	5207	5204	5216	1.0	1.0	1.2	0.9	2.3	1.9	1.8	2.2
Georgia-18RU	ML	4894	4911	5163	5192	1.3	1.2	1.4	1.1	3.0	2.4	2.1	2.5
TifNV-High O/L**	M	5089	5246	5216	5222	1.0	1.0	1.1	0.8	3.2	2.2	1.8	2.1
TUFRunner™ '297'**	M	5513	5490	5344	5373	1.4	1.3	1.4	1.1	2.3	2.2	1.9	2.3
	LSD(0.05)	281	170	177	165	0.2	0.1	0.1	0.1	0.3	0.2	0.1	0.1

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Table 3. Performance of runner (R) and Virginia (V) market-types in individual seasons and locations under **irrigated** conditions in Florida during 2020-2023.

Name	Market-type	Marianna					Gainesville					Live Oak					Overall				
		2023	2022	2021	2020	Mean	2023	2022	2021	2020	Mean	2023	2022	2021	2020	Mean	2023	2022	2021	2020	Mean
		Pod Yield (lbs./A)																			
ACI 3321**	R	5900	5354	5006	6484	5686	9219	7774	6364	6787	7536	8513	7168	6522	-	7343	7875	6765	5964	6636	6849
AU-NPL 17**	R	6623	5378	4694	6957	5902	8234	8806	5274	5576	6973	7931	7938	6954	-	7608	7596	7374	5641	6267	6821
FloRun™ '331'**	R	7211	5090	4988	6255	5812	8623	9810	7463	7828	8431	8779	8829	7832	-	8480	8205	7909	6761	7041	7567
FloRun™ '52N'	R	7026	5333	5383	-	6129	8444	9204	5099	-	7162	8506	7549	8103	-	8053	7992	7362	6195	-	7106
FloRun™ 'T61'**	R	6965	6130	5681	7221	6499	8402	8502	6435	5814	7288	7844	7957	7157	-	7709	7737	7530	6424	6518	7159
Georgia-06G	R	6886	5073	4577	7108	5911	8087	7884	5974	5385	6775	8452	8027	6322	-	7543	7810	6908	5624	6247	6737
Georgia-09B**	R	-	5495	3997	6352	5430	-	9297	7064	6986	8130	-	8642	6977	-	8091	-	8121	6013	6669	7236
Georgia-12Y	R	7925	5343	6324	6825	6481	8505	6761	5976	6924	7042	8869	7407	7301	-	7859	8433	6503	6534	6875	7117
Georgia-16HO**	R	6168	5716	5582	7507	6243	8111	7672	6468	6021	7068	8186	7591	7134	-	7650	7486	6993	6395	6764	6981
Georgia-18RU	R	6885	4773	5152	6311	5734	8631	9488	7800	7626	8386	8584	8988	6830	-	8134	8033	7750	6594	6969	7411
TifNV-High O/L**	R	6632	4742	5144	6116	5634	9009	6905	5645	6324	6663	8324	7832	6919	-	7692	7578	6493	5903	6220	6650
TUFRunner™ '297'**	R	6311	4480	5604	6042	5609	7780	8471	5724	7106	7578	8355	8134	6640	-	7710	7892	7028	5989	6574	6956
TUFRunner™ '511'**	R	-	-	5277	6530	5935	-	-	6355	6663	7437	-	-	6257	-	6965	-	-	5963	6597	6814
Bailey	V	7741	5630	4880	5385	5543	8456	6459	6333	6402	6913	8489	7829	6489	-	7602	7741	6639	5901	5893	6676
Florida Fancy**	V	-	-	5061	5783	5453	-	-	5611	5856	6662	-	-	6788	-	7495	-	-	5820	5820	6570
Walton**	V	7714	4914	4693	6941	5695	8491	9202	7132	6336	7790	8428	7512	7172	-	7695	7714	7209	6332	6638	7054
LSD		241	885	775	700	194	325	1475	837	758	235	433	1236	685	-	229	241	547	438	511	129

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Table 4. Performance of runner (R) and Virginia (V) market-types in individual seasons and locations under **non-irrigated** conditions in Florida during 2020-2023.

Non-Irrigated Name	Market-type	Marianna					Gainesville/Live Oak					Jay					Overall				
		2023	2022	2021	2020	Mean	2023 (LO)	2022 (LO)	2021 (GV)	2020	Mean (LO)	2023	2022	2021	2020	Mean	2023	2022	2021	2020	Mean
ACI 3321**	R	5439	4357	3729	5154	4878	6022	6937	5174	-	6044	1830	4722	6001	-	4203	4431	5134	4968	5154	4431
AU-NPL 17**	R	6561	4291	5073	5078	5187	5815	6379	4392	-	5529	1792	5202	5519	-	3998	4723	5099	4995	5078	4723
FloRun™ '331'**	R	7171	4234	4803	5746	5538	7257	6500	5198	-	6318	3304	5792	6654	-	4988	5911	4689	5552	5746	5911
FloRun™ '52N'	R	6696	5254	5331	-	5535	7069	7167	4566	-	6267	2647	4018	5064	-	3845	5471	5591	4987	-	5471
FloRun™ 'T61'**	R	6507	4053	4445	5036	5118	6701	7164	5011	-	6292	2740	4185	6120	-	4285	5316	5260	5192	-	5316
Georgia-06G	R	5935	5349	3871	5470	5180	7100	5780	5122	-	5879	2588	4448	3795	-	3760	4435	5455	4263	5470	4435
Georgia-09B**	R	-	4708	3687	5121	4873	-	6160	4284	-	5372	-	5216	3486	-	3532	-	5293	3819	5121	-
Georgia-12Y	R	6491	5178	5394	5547	5494	5387	5998	4548	-	5311	2430	5063	4900	-	4007	4769	5888	4947	5547	4769
Georgia-16HO**	R	6642	4180	5208	5278	5332	6168	7028	4762	-	5986	2799	4481	5146	-	4061	5203	5404	5039	5278	5203
Georgia-18RU	R	6326	3790	4931	5175	5193	6219	6201	5207	-	5876	2136	5099	5782	-	4288	4894	4004	5307	5175	4894
TifNV-High O/L**	R	6573	4451	4816	5071	5326	6558	6485	5183	-	6186	2136	5274	4423	-	4025	5089	4717	4807	5071	5089
TUFRunner™ '297'**	R	6862	5930	3730	5497	5468	6658	6633	5265	-	5883	3018	4161	5371	-	4226	5513	6474	4789	5497	5513
TUFRunner™ '511'**	R	-	-	4002	5184	5072	-	-	4949	-	6075	-	-	4789	-	3955	-	-	4580	5184	-
Bailey	V	7290	5761	5028	5591	5820	5742	7099	5294	-	6045	3576	4222	5140	-	4301	5536	6572	5154	5591	5536
Florida Fancy**	V	-	-	4440	4900	5325	-	-	5553	-	6487		-	4158	-	3942	-	-	4717	4900	-
Walton**	V	7080	5360	3640	5502	5668	5992	7402	5822	-	6405	2792	4106	3915	-	3959	5288	5984	4459	5502	5288
LSD		331	1034	991	484	167	400	425	465	-	217	315	1119	2138	-	268	281	634	790	484	281

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Table 5 is the 2024 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 2024 and are highlighted in bold font.

Table 5. The 2024 Peanut Rx variety risk point table; higher points means higher risk of loss from disease.

Variety[1]	Spotted Wilt Points	Leaf Spot Points	White mold Points	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
FloRun™ 'T61'[1,2]	10	25	15	Susceptible
FloRun™ '52N'[1]	**15**	**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]	10	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]	10	15	15	Resistant
TifNV-HG[1,2,4]	**10**	**20**	**20**	**Resistant**
TUFRunner™ '297'[2]	10	25	20	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 characteristics 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] *TifNV-HiOL, TifNV-HG, 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.*