SCSC-2022-05

TEXAS PEANUT VARIETY TRIALS | 2021

Texas A&M AgriLife Research | Extension

Texas A&M AgriLife Research and Extension Service

Texas Peanut Producers

TEXAS PEANUT VARIETY TRIAL | 2021

CONTRIBUTING AUTHORS

Dr. Emi Kimura	State Peanut Specialist	AgriLife Extension, Vernon, TX
Dr. John M. Cason	Peanut Breeder	AgriLife Research, Stephenville, TX
Dr. Katie Lewis	Soil Chemisstry and Fertility Scientist	AgriLife Research, Lubbock, TX
Dr. Paul DeLaune	Environmental Soil Scientist	AgriLife Research, Vernon, TX
Mr. Michael Baring	Assistant Research Scientist	AgriLife Research, College Station, TX
Mr. Dwayne Drozd	Technician	AgriLife Research, Yoakum, TX
Jonathan Ramirez	Extension Associate	AgriLife Extension, Vernon, TX
Dane Leija	Technician	AgriLife Extension, Vernon, TX
Ira Yates	Technician	AgriLife Extension, Lubbock, TX
Dabra Dobitz	Technician	AgriLife Extension, Lubbock, TX
Dale Rankin	County Extension Agent	AgriLife Extension, Atascosa Co., TX
Georgina Macias	Assistant Extension Agent	AgriLife Extension, Atascosa Co., TX
Jaime Lopez	County Extension Agent	AgriLife Extension, Frio Co., TX
Kenny Patterson	County Extension Agent	AgriLife Extension, Collingsworth Co., TX
Langdon Reagan	County Extension Agent	AgriLife Extension, Wilbarger Co., TX
Mike Berry	County Extension Agent	AgriLife Extension, Comanche Co., TX

ACKNOWLEDGEMENTS

Appreciation is expressed to the cooperators who provided their land, equipment, and time in assisting for preparation, planting, field management, and harvesting of these plots throughout the year. We would like to extend our appreciation to **National Peanut Board** through the **Texas Peanut Producers Board** for their funding of these trials. Finally, we appreciate peanut industry for providing support for the trials.

2021 HIGHLIGHT

Variety selection is the most important decision made during the year. Unlike herbicide or fungicide decisions that can be adjusted during the season to address specific conditions and pests, variety selection is made only once, and variety selection dictates the management of a field for the entire season. Several factors influence variety selection decisions and should be based on specific pest resistant characteristics to minimize the pest pressure during the season, as well as maturity characteristics. Maturity is important variety characteristic for maximizing yield potential based on the environment. According to the USDA National Agricultural Statistics Service, the 2021 average yield was 3,600 lb/ac in TX. The 2021 planted acres were 170,000 acres as compared to 190,000 acres in 2020. Texas contributed 9.1 % of total US peanut production in 2021, up 1% from 2020. The 2021 growing season started with wet and cool May and June. Planting was delayed across the Texas by one to two weeks due to the prolonged wet field conditions. Many producers in the central Texas were not able to plant peanut due to continuous rainfall in the region through June. It was difficult to make timely pesticide applications again due to the wet field conditions; therefore, weed pressure was higher in 2021 as compared to in 2020. Despite the delayed planting, warm temperature through September provided good accumulated heat units to fully mature the peanut in the ground. Harvesting condition was above average without an early freeze in October. Due to the increased humidity level by the above average rain events throughout the growing season, overall disease pressure was above average in west Texas and Texas Rolling Plains. Interestingly, disease pressure in the south Texas was similar to previos years despite the above average moisture level. Overall, the 2021 growing season provided a good moiture and heat unit, which increased overall average yield of Texas peanut.

Weather information for peanut production region in Texas

Table 1. Heat unit (DD56 and ceiling at 95F) for peanut production region in Texas during 2018-2021.
Data were obtained from NOAA (https://www.noaa.gov/)

	May	Jun	Jul	Aug	Sep	Oct	May- Sep	Date of the first killing frost
Memphis								
2021	338	651	743	750	655	220	3357	11/19
2020	476	720	848	812	455	237	3309	10/24
2019	344	613	777	808	699	181	3240	10/12
2018	636	727	808	756	546	171	3472	10/15
4 yr average	**449**	**678**	**794**	**782**	**589**	**202**	**3345**	
Seminole								
2021	424	664	680	691	579	262	3300	11/18
2020	515	637	823	792	451	282	3218	10/27
2019	387	575	628	801	626	233	3016	10/27
2018	630	747	772	722	460	215	3330	10/16
4 yr average	**489**	**656**	**726**	**752**	**529**	**248**	**3216**	
Stephenville								
2021	434	729	809	834	711	420	3937	12/7
2020	597	749	878	864	541	346	3628	10/26
2019	536	719	841	891	770	351	3756	10/31
2018	688	835	894	846	633	333	3895	11/12
4 yr average	**564**	**758**	**856**	**859**	**664**	**363**	**3804**	
San Antonio								
2021	669	524	864	920	815	640	4432	TBD
2020	654	747	884	862	659	512	3805	12/1
2019	713	810	909	955	891	508	4276	11/1
2018	791	891	915	922	792	513	4309	11/13
4 yr average	**707**	**743**	**893**	**915**	**789**	**543**	**4206**	

Table 2. Monthly precipitation (inch) for the peanut production region in Texas during 2018-2021. Data were obtained from NOAA.

	Apr	May	Jun	Jul	Aug	Sep	Apr-Sep
Seminole							
2021	1.86	2.73	3.76	2.24	2.97	0.48	14.04
2020	0.00	0.03	0.02	0.62	0.34	0.92	1.93
2019	4.35	1.29	2.55	1.91	0.04	3.42	13.56
2018	0.00	0.63	1.91	3.32	2.30	3.50	11.66
4 yr average	**1.55**	**1.17**	**2.06**	**2.02**	**1.41**	**2.08**	**10.30**
San Antonio							
2021	1.89	5.00	5.01	5.08	4.63	1.00	22.61
2020	1.58	6.50	1.78	1.33	0.51	2.45	14.15
2019	2.73	2.92	8.11	0.28	0.02	0.68	14.74
2018	1.08	1.81	0.60	2.45	2.30	10.39	18.63
4 yr average	**1.82**	**4.06**	**3.88**	**2.29**	**1.87**	**3.63**	**17.53**
Stephenville							
2021	3.86	8.65	4.58	2.31	1.86	0.07	21.33
2020	0.51	2.17	2.86	2.00	0.60	7.92	16.06
2019	6.18	7.83	3.08	1.64	1.76	0.12	20.61
2018	0.25	2.81	0.19	1.95	2.89	6.25	14.34
4 yr average	**2.70**	**5.37**	**2.68**	**1.98**	**1.78**	**3.59**	**18.09**
Memphis							
2021	0.42	4.20	6.28	4.15	1.96	0.56	17.57
2020	0.34	1.24	3.57	0.80	2.79	1.47	10.20
2019	3.03	4.68	2.78	3.64	1.47	2.15	17.75
2018	0.57	4.52	3.71	1.24	1.63	4.12	15.79
4 yr average	**1.09**	**3.66**	**4.09**	**2.46**	**1.96**	**2.08**	**15.33**

2021 Peanut Variety Trial Summary

	West Texas	Rolling Plains 1	Rolling Plains 2	Central Texas	South Texas
County	Lubbock	Haskell	Collingsworth	Erath	Frio
Plot length	25'	25'	25'	10'	25'
Planting	5/4/2021	5/6/2021	5/13/2021	6/21/2021	6/7/2021
Digging	10/13/2021	9/28/2021	10/11/2021	11/10/2021	11/8/2021
Harvesting	10/19/2021	10/5/2021	10/21/2021	11/18/2021	11/15/2021
DAP	162	145	161	142	154
DD56	3178	3225	3245	3035	4092
Freeze	11/18/2021	11/19/2021	11/19/2021	12/7/2021	N/A
Precipitation Apr-Sep	14.04	19.13	17.57	21.33	22.61
Average yield					
Runner	2509	4743	4132	3920	5040
Spanish	3422	5351	3154	3709	3176
Virginia	2674	5053	3312	4800	4153
Valencia	2725	4119	2104	-	3565

West Texas	**Lubbock County**		
Cooperator	**TAMU**		
Planted on	**5/4/2021**		
Dug on	**10/13/2021**	**162**	**DAP**
Harvested on	**10/19/2021**		
Disease	**Low disease pressure**		
First killing frost	**11/18/2021**		

ELK: Extra large kernels
DK: Damaged kernels
OK: Other kernels
TSMK: Total Sound Mature Kernels

Lubbock		2021	2-Yr Avg	3-Yr-Avg	TSMK	ELK	DK	OK
RUNNER	Release	Yield	Yield	Yield	%	%	%	%
ACI 789	IPG	5610	6119	-	67.7	22.2	4.2	1.1
IPG 914	IPG	4739	4056	5027	68.4	29.6	4.3	2.0
IPG QR-14	IPG	4696	3506	4448	68.3	24.6	4.3	1.9
Lariat	OK	4356	4064	-	67.0	31.1	4.3	1.1
IPG 4944	IPG	4155	3933	4986	67.6	35.2	4.2	1.7
GA 09B	GA	4147	3694	4846	68.5	30.5	4.0	1.7
ARSOK R92-13	OK/NC	3807	-	-	68.9	30.9	4.8	0.9
ACI 080	ACI	3650	5100	-	68.0	24.2	4.5	0.8
TxL080256-02	TAMU	3493	4734	-	68.0	26.7	4.7	0.9
ACI 476	ACI	2953	5016	-	69.3	35.1	3.8	0.9
AG18	TAMU	2901	2932	4241	67.4	29.8	4.2	1.5
NemaTAM II	TAMU	2614	3167	4444	67.4	28.1	4.0	1.7
Tx144370	TAMU	2404	-	-	68.3	27.9	4.7	0.9
TxLRu0303	TAMU	2404	2905	-	67.2	27.8	4.2	1.9
TxL080243-06	TAMU	2352	4084	-	65.6	26.5	4.0	2.0
GA16HO	GA	1864	2487	-	67.8	27.6	5.3	0.9
Means		3509	3986	4665	67.8	28.6	4.3	1.4
CV		21.5			3.9	23.8	21.5	62.1
P0.1		<.0001			NS	NS	NS	NS

Highlighted values are significantly same as the highest value at P<0.1

Lubbock		2021	2-Yr Avg	3-Yr-Avg	TSMK	ELK	DK	OK
SPANISH	Release	Yield	Yield	Yield	%	%	%	%
SPan17	TAMU	4365	5166	-	68.1	14.7	3.7	2.7
IPG 3628	IPG	3946	3568	4532	72.1	28.6	2.8	0.9
OLe	OK	3389	2810	3562	68.1	23.9	3.4	0.7
AT 9899		3014	-	-	68.6	9.9	3.5	1.8
ACI 236	IPG	2396	2374	3115	68.1	18.0	4.6	1.9
Means		3422	3480	3736	69.0	19.0	3.6	1.6
CV		14.5			3.3	13.0	12.2	72.5
P0.1		0.0051			NS	<.0001	0.0	NS

Highlighted values are significantly same as the highest value at P<0.1

Lubbock		2021	2-Yr Avg	3-Yr-Avg	TSMK	ELK	DK	OK
VIRGINIA	Release	Yield	Yield	Yield	%	%	%	%
ACI 442	ACI	3772	3912	4749	62.4	30.4	3.6	2.2
TxL090105-07	TAMU	2875	2557	4047	65.4	28.0	2.9	1.3
IPG 464	IPG	2805	2980	3947	60.9	31.0	5.2	2.1
TxL090105-15	TAMU	2509	2487	3722	59.7	27.4	4.7	0.9
Wynne	NC	2439	4411	-	61.3	26.8	4.5	0.9
ARSOK/NCEX17	OK/NC	2230	2217	-	59.0	25.7	5.2	3.0
Contender	OK	2091	2109	-	62.8	30.1	4.0	2.0
Means		2674	2953	4116	61.6	28.5	4.3	1.8
CV		28.7			4.5	12.0	22.8	75.9
P0.1		NS			NS	NS	NS	NS

Highlighted values are significantly same as the highest value at P<0.1

Lubbock		2021	2-Yr Avg	3-Yr-Avg	TSMK	ELK	DK	OK
VALENCIA	Release	Yield	Yield	Yield	%	%	%	%
IPG 1288	IPG	4435	3585	4527	59.5	20.9	3.4	5.9
NMSU-5	NMS	3014	2579	2902	51.3	8.1	3.8	12.2
NMSU-4	NMS	3006	2500	2807	52.9	10.5	3.4	12.2
TxL054529-48	TAMU	2953	-	-	56.5	18.7	3.6	6.9
TamVal OL14	TAMU	2901	2095	2423	50.6	12.2	3.3	13.8
NMSU-6	NMS	2892	2117	3113	47.4	13.0	3.2	15.6
NMSU-3	NMS	2797	2461	-	59.7	19.8	5.5	5.1
Valencia 309		2657	-	-	54.3	8.8	3.0	11.1
Valencia 310		2587			52.0	10.9	3.3	12.8
NMSU-7	NMS	2509	3176	-	53.4	12.3	2.8	11.2
NMSU-8	NMS	2352	2283	-	54.7	21.0	3.4	11.2
NMSU-2	NMS	1629	1790	2367	63.8	27.3	3.1	4.2
NMSU-1	NMS	1550	1559	2191	59.7	22.4	3.0	7.3
Means		2714	2415	2904	55.1	15.8	3.4	10.0
CV		19.5			15.1	56.1	45.8	56.5
P0.1		0.0002			NS	NS	NS	NS

Highlighted values are significantly same as the highest value at P<0.1

Rolling Plains	**Haskell**	
Cooperator	**Larry Short**	
Planted on	**5/6/2021**	
Dug on	**9/28/2021**	**145**
Harvested on	**10/5/2021**	
Disease:	**Minor leaf spot**	
First killing frost	**11/19/2021**	

ELK: Extra large kernels
DK: Damaged kernels
OK: Other kernels
TSMK: Total Sound Mature Kernels

Haskell		2021	2-Yr Avg	3-Yr-Avg	TSMK	ELK	DK	OK
RUNNER	Release	Yield	Yield	Yield	%	%	%	%
AG-18	TAMU	5833	5162	4528	76.1	19.8	0.6	1.8
IPG 914	IPG	5475	4802	4010	73.7	21.8	0.9	1.5
Lariat	OK	5397	4870	4411	75.1	24.3	1.0	1.5
TxL080256-02	TAMU	5336	-	-	73.2	27.5	0.7	1.3
NemaTAM II	TAMU	5114	4907	4362	72.6	29.9	0.9	1.2
IPG QR-14	IPG	5014	4417	3985	73.9	5.7	1.1	1.5
GA09B	GA	4975	4840	4410	74.3	28.5	1.1	1.0
ARSOK R92-13	OK/NC	4901	-	-	76.1	29.4	1.0	0.9
IPG 4944	IPG	4765	4060	3636	71	7.2	0.9	3.3
TxL080243-06	TAMU	4626	-	-	73.4	26.6	0.8	1.3
ACI 476	ACI	4421	3764	-	70.7	19.9	1.1	2.4
ACI 080	ACI	4260	3707	-	74.7	19.8	0.5	1.7
ACI 789	IPG	4105	3283	-	70.5	21.6	1.1	1.3
GA16HO	GA	4069	4404	-	73.2	25.9	0.8	0.8
TxLRu0303	TAMU	3825	4561	-	75	34.7	0.5	1.1
Tx144370	TAMU	3777	-	-	73.3	23.1	1.3	0.8
Means*		4743	4398	4192	73.6	22.9	0.9	1.5
CV		17.0			2.0	11.4	56.6	41.1
P0.1		0.0821			0.0003	<.0001	NS	NS

Highlighted values are significantly same as the highest value at P<0.1
Trials were conducted in Wilbarger County in 2019 and 2020, and Haskell County in 2021.

Haskell		2021	2-Yr Avg	3-Yr-Avg	TSMK	ELK	DK	OK
SPANISH	Release	Yield	Yield	Yield	%	%	%	%
IPG 3628	IPG	6055	5110	4511	72.9	12.9	0.2	1.7
SPan17		5929	4259	-	73.8	6.1	0.1	1.8
OLe	OK	5545	4358	3591	69.8	15.3	0.1	1.8
AT 9899		5149	-	-	73.3	9.3	0.2	1.7
ACI 236	IPG	4077	3859	3372	73.8	9.4	0.1	1.8
Means*		5351	4396	3825	72.7	10.6	0.1	1.8
CV		19.6			2.8	43.5	61.2	31.5
P0.1		NS			NS	NS	NS	NS

Highlighted values are significantly same as the highest value at P<0.1
*Trial average

Haskell		2021	2-Yr Avg	3-Yr-Avg	TSMK	ELK	DK	OK
VIRGINIA	Release	Yield	Yield	Yield	%	%	%	%
ACI 442	ACI	5907	4496	3848	70.0	48.2	0.3	1.6
Contender	OK	5685	5228	4422	69.9	50.2	0.4	1.1
TxL090106-15	TAMU	5188	-	-	70.6	41.6	0.1	1.3
TxL090105-07	TAMU	4947	-	-	69.7	44.8	0.4	1.5
IPG 464	IPG	4665	4785	4212	70.5	47.7	0.3	0.8
ARSOK/NCEX17	NC	4648	4376	-	68.2	45.0	0.2	1.4
Wynne	NC	4329	-	-	63.8	33.4	0.6	4.0
Means*		5053	4721	4160	69.0	44.4	0.3	1.7
CV		15.2			2.8	8.1	70.1	37.2
P0.1		NS			0.0076	0.0011	NS	NS

Highlighted values are significantly same as the highest value at P<0.1

*Trial average

Haskell		2021	2-Yr Avg	3-Yr-Avg	TSMK	ELK	DK	OK
VALENCIA	Release	Yield	Yield	Yield	%	%	%	%
TamVal OL14	TAMU	4639	3627	-	66.5	7.9	0.7	3.9
IPG 1288	IPG	4613	4598	3710	72.7	23.1	0.2	2.4
NMSU-2	NMS	4452	3185	-	66.6	4.6	0.4	3.1
TxL054529-48	TAMU	4242	3435	-	68.1	11.1	0.3	3.2
NMSU-4	NMS	4199	3208	-	68.6	16.8	0.1	1.4
NMSU-6	NMS	4143	2682	-	70.7	16.3	0.2	2.1
NMSU-1	NMS	4110	3305	-	65.9	2.7	0.1	3.2
Valencia 310		4012	-	-	66.8	5	0.2	3.0
Valencia 309		3929	-	-	65.7	5.9	0.3	3.3
NMSU-8	NMS	3912	3426	-	66	4.6	0.3	3.3
NMSU-3	NMS	3868	3163	-	65.3	3.8	0.2	3.2
NMSU-5	NMS	3798	2842	-	66.6	13.5	0.2	1.6
NMSU-7	NMS	3629	3261	-	64.7	4	0.4	2.9
Means*		4119	3339	3710	67.2	9.2	0.3	2.8
CV		9.53			3.6	82.9	121.8	28.1
P0.1		0.0932			0.020	NS	NS	0.0243

Rolling Plains	**Collingsworth**		ELK: Extra large kernels
Cooperator	**Rex Henard**		DK: Damaged kernels
Planted on	**5/13/2021**		OK: Other kernels
Dug on	**10/11/2021**	**DAP**	TSMK: Total Sound Mature Kernels
Harvested on	**10/21/2021**		
Disease:	**Leaf spot**		
First killing frost	**11/19/2021**		

Collingsworth		2021	2-Yr Avg	3-Yr-Avg	TSMK	ELK	DK	OK
RUNNER	Release	Yield	Yield	Yield	%	%	%	%
AG-18	TAMU	4818	5191	-	77.5	37.2	0.1	1.4
Lariat	OK	4635	5343	-	77.5	39.7	0.1	1.5
IPG 914	IPG	4500	4644	-	74.9	37.0	0.0	1.3
ARSOK R92-13	OK/NC	4439	4439	-	77.5	43.8	0.1	1.2
TxL080243-06	TAMU	4408	3830	-	75.5	33.0	0.2	1.8
ACI 789	IPG	4330	4351	-	75.4	34.8	0.1	1.2
TxL080256-02	TAMU	4317	4291	-	74.8	37.7	0.2	1.9
IPG QR-14	IPG	4217	4139	-	77.2	23.4	0.0	1.3
NemaTAM II	TAMU	4173	4423	-	74.1	42.9	0.2	1.8
TxLRu0303	TAMU	4112	4112	-	76.2	43.4	0.3	1.8
GA16HO	GA	4051	5046	-	75.8	38.8	0.2	1.6
IPG 4944	IPG	3807	4924	-	73.3	13.6	0.1	3.5
Tx144370	TAMU	3803	3803	-	76.6	35.1	0.1	1.4
GA09B	GA	3642	4600	-	76.7	34.9	0.0	1.1
ACI 476	ACI	3459	3889	-	73.8	29.0	0.4	2.3
ACI 080	ACI	3402	3995	-	76.3	30.3	0.3	1.6
Means*		4132	4439	-	75.8	34.7	0.2	1.7
CV		19			1.715977	17.1	158.9	34.9
P0.1		NS			0.0022	<.0001	NS	0.0045

Highlighted values are significantly same as the highest value at P<0.1

*Trial average

Collingsworth		2021	2-Yr Avg	3-Yr-Avg	TSMK	ELK	DK	OK
SPANISH	Release	Yield	Yield	Yield	%	%	%	%
IPG 3628	IPG	4025	4466	-	79.1	33.2	0.1	1.0
SPan17		3507	4282	-	77.6	12.5	0.1	1.1
OLe	OK	3110	2978	-	75.0	24.7	0.1	1.1
AT 9899		3054	3054	-	76.6	13.3	0.2	1.1
ACI 236	IPG	2074	2282	-	78.7	17.6	0.2	1.3
Means*		3154	3412	-	77.4	20.3	0.1	1.1
CV		14	-		1.933219	10.94068	104.4014	30.79117
P0.1		0.0031	-		0.0469	<.0001	NS	NS

Highlighted values are significantly same as the highest value at P<0.1

*Trial average

Collingsworth		2021	2-Yr Avg	3-Yr-Avg	TSMK	ELK	DK	OK
VIRGINIA	Release	Yield	Yield	Yield	%	%	%	%
ACI 442	ACI	4077	4594	-	73.4	52.7	0.3	1.0
Contender	OK	3324	3842	-	74.9	51.0	0.0	0.5
IPG 464	IPG	3306	3902	-	75.2	57.1	0.3	0.7
TxL090105-07	TAMU	3289	3913	-	75.3	53.7	0.1	0.9
ARSOK/NCEX17	NC	3219	3219	-	75.4	51.2	0.2	0.7
Wynne	NC	3067	3067	-	73.7	48.3	0.2	1.2
TxL090106-15	TAMU	2906	4065	-	74.0	48.5	0.3	0.8
Means*		3312	3800	-	74.6	51.8	0.2	0.8
CV		15	-	-	1.020165	7.283154	126.811	37.82959
P0.1		NS	-	-	0.0252	NS	NS	NS

Highlighted values are significantly same as the highest value at P<0.1

*Trial average

Collingsworth		2021	2-Yr Avg	3-Yr-Avg	TSMK	ELK	DK	OK
VALENCIA	Release	Yield	Yield	Yield	%	%	%	%
TamVal OL14	TAMU	3467	-	-	70.9	14.9	0.1	2.2
IPG 1288	IPG	3075	3360	-	75.6	45.1	0.2	3.8
NMSU-2	NMS	2740	-	-	70.5	12.0	0.4	1.3
Valencia 309		2200	-	-	70.1	12.8	0.3	2.2
NMSU-6	NMS	2100	-	-	69.5	12.7	0.2	2.6
NMSU-4	NMS	1825	-	-	68.6	11.8	0.4	2.4
TxL054529-48	TAMU	1817	-	-	70.4	20.8	0.4	1.4
NMSU-1	NMS	1734	-	-	71.4	17.0	0.3	2.1
NMSU-8	NMS	1520	-	-	69.4	8.6	0.4	2.5
NMSU-3	NMS	1359	-	-	68.4	13.4	0.6	1.9
Valencia 310		1311	-	-	70.5	11.5	0.3	1.6
Means*		2104	3360.15	-	70.5	16.4	0.3	2.2
CV		37	-	-	3.8	28.9	72.5	76.5
P0.1		NS	-	-	NS	<.0001	NS	NS

Highlighted values are significantly same as the highest value at P<0.1

*Trial average

Central Texas	**Erath**			ELK: Extra large kernels
Cooperator	**TAMU**			DK: Damaged kernels
Planted on	**6/21/2021**			OK: Other kernels
Dug on	**11/10/2021**	**142**	**DAP**	TSMK: Total Sound Mature Kernels
Harvested on	**11/18/2021**			
Disease:	**White mold**			

Comanche		2021	2-Yr Avg	3-Yr-Avg	TSMK	ELK	DK	OK
RUNNER	Release	Yield	Yield	Yield	%	%	%	%
Lariart	OK	4725	6602	7126	74.1	-	0.1	3.8
AG18	TAMU	4615	6230	6719	73.1	-	0.7	3.2
Tx144370	TAMU	4505	-	-	71.5	-	0.4	3.7
NemaTAMII	TAMU	3897	-	-	70.7	-	0.4	3.5
IPG QR-14	IPG	3511	5464	6157	70.2	-	0.3	6.6
GA16HO	GA	3207	5877	-	73.4	-	0.9	2.3
GA09B	GA	2982	5184	6160	71.5	-	0.7	4.0
Means*		3920	5871	6541	72.1	-	0.5	3.9
CV		11			-	-	84	43
P0.1		NS			NS	-	NS	NS

Highlighted values are significantly same as the highest value at P<0.1

Comanche		2021	2-Yr Avg	3-Yr-Avg	TSMK	ELK	DK	OK
SPANISH	Release	Yield	Yield	Yield	%	%	%	%
OLe	OK	3936	5199	5875	71.4	-	1.2	1.2
AT9899		3690	-	-	74.4	-	0.7	3.2
Span17		3500	5745	-	73.5	-	1.1	1.9
Means*		3709	5472	5875	73.1	-	1.0	2.1
CV		16			1	-	45	18
P0.1		NS			0.029	-	NS	0.0024

Highlighted values are significantly same as the highest value at P<0.1

*Trial average

Comanche		2021	2-Yr Avg	3-Yr-Avg	TSMK	ELK	DK	OK
VIRGINIA	Release	Yield	Yield	Yield	%	%	%	%
ACI 442	ACI	4863	6439	-	70.0	-	1.2	1.0
Contender	OK	4737	6134	6313	71.1	-	1.9	0.8
Means*		4800	6286	6313	70.6	-	1.5	0.9
CV		12.17841			2	-	36.04498	40.24702
P0.1		NS			NS	-	NS	NS

Highlighted values are significantly same as the highest value at P<0.1

*Trial average

South Texas	**Frio County**		ELK: Extra large kernels
Cooperator	**Grayson Wilmeth**		DK: Damaged kernels
Planted on	**6/7/2021**		OK: Other kernels
Dug on	**11/8/2021**	**154** **DAP**	TSMK: Total Sound Mature Kernels
Harvested on	**11/15/2021**		
Disease:	**Minor leaf spot**		

STX		2021	2-Yr Avg	3-Yr-Avg	TSMK	ELK	DK	OK
RUNNER	Release	Yield	Yield	Yield	%	%	%	%
TxL10212-03-03	TAMU	6307	5211	-	76.0	.	1.0	1.1
AG18	TAMU	5767	5621	6071	73.0	.	0.4	1.6
TxL080256-02	TAMU	5473	4311	-	75.0	.	0.4	1.2
Georgia 09B	GA	5156	5436	-	75.0	.	0.1	1.9
NemaTam II	TAMU	5098	4839	5053	72.0	.	0.6	1.8
IPG 4944	IPG	4802	4924	5141	74.0	.	0.8	2.2
Georgia 16HO	GA	4761	4474	-	74.0	.	0.8	1.7
IPG 914	IPG	4740	4786	5056	73.0	.	0.8	2.0
ARSOK R92-13	OK/NC	4635	-	-	76.0	.	1.0	1.4
Lariart	TAMU	4619	4444	4582	77.0	.	0.7	1.5
TxL080243-06	TAMU	4572	4147	-	75.0	.	0.5	0.8
Tx144370	TAMU	4552	-	-	75.0	.	1.2	1.9
Means*		5040.2	4819.0	5180.7	74.6	-	0.7	1.6
CV		21	-	-	2.6	-	63.4	26.7
P0.1		NS	-	-	NS	-	NS	0.0132

Highlighted values are significantly same as the highest value at P<0.1

STX		2021	2-Yr Avg	3-Yr-Avg	TSMK	ELK	DK	OK
SPANISH	Release	Yield	Yield	Yield	%	%	%	%
IPG 3628	IPG	3734	-	-	74.0	.	0.5	1.1
OLe	OK	3274	3675	-	72.0	.	0.4	1.3
SPan17		2519	-	-	73.0	.	0.8	1.2
Means*		3176	3675	-	73	-	0.6	1.2
CV		16	-	-	2.0	-	75.6	32.9
P0.1		0	-	-	NS	-	NS	NS

Highlighted values are significantly same as the highest value at P<0.1

STX		2021	2-Yr Avg	3-Yr-Avg	TSMK	ELK	DK	OK
VIRGINIA	Release	Yield	Yield	Yield	%	%	%	%
NCEX17	NC/OK	5059	5733	-	73.0	.	1.8	0.2
Contender	OK	4626	4564	5037	76.0	.	1.9	0.5
TxL090105-07	TAMU	4293	5000	-	70.0	.	1.3	1.1
TxL090106-15	TAMU	3539	4522	-	72.0	.	0.9	0.5
Means*		4153	4695	5037	73	-	1.5	0.6
CV		13	-	-	5.6	-	41.3	57.5
P0.1		0.053	-	-	NS	-	NS	NS

Highlighted values are significantly same as the highest value at P<0.1

STX		2021	2-Yr Avg	3-Yr-Avg	TSMK	ELK	DK	OK
VALENCIA	Release	Yield	Yield	Yield	%	%	%	%
TamVal OL14	TAMU	5161	4532	-	71.0	.	0.7	1.6
NMSU-2	NMS	4043	4544	-	70.0	.	1.3	1.8
NMSU-3	NMS	3752	3711	-	70.0	.	0.8	1.7
NMSU-1	NMS	3511	3925	-	70.0	.	1.2	1.5
TxL054529-48	TAMU	3431	-	-	72.0	.	0.8	1.3
Means*		3565	3818	-	71	-	1.0	1.6
CV		18	-	-	4.9	-	45.2	37.7
P0.1		0.0785	-	-	NS	-	NS	NS

Highlighted values are significantly same as the highest value at P<0.1

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

http://varietytesting.tamu.edu/peanuts/

Issued in furtherance of Cooperative Extension Work in Agriculture and Home Economics, Acts of Congree of May 8, 1914, as amended, and June 30, 1914, in cooperation with the United States Department of Agriculture. Dr. Rick Avery, Director, Texas A&M AgriLife Extension Service, The Texas A&M University System.

SOIL & CROP SCIENCES
TEXAS A&M UNIVERSITY