APPLICATION FOR RELEASE

APPLICATION FOR RELEASE OF (check one):

☒ CULTIVAR	☐ PARENTAL LINE
☐ ASSOCIATE CULTIVAR	☐ GENETIC STOCK
☐ GERMPLASM	

1. Crop: **Peanut (*Arachis hypogaea* L.)**

2. Experimental no. or name: **GA 183129**

3. Pedigree and history: **GA 183129 was developed from a cross made in 2013 between two runner-type parents, GA 082524 and GA 032517. GA 082524 is a high-oleic RKN-resistant advanced Georgia breeding line derived from a cross between 'Georgia-02C' x a F_4 selection from 'Georgia-01R' x 'COAN'. GA 032517 is likewise a RKN-resistant advanced Georgia breeding line derived from a cross between 'Georgia-01R' x COAN. Pedigree selection was practiced within the early segregating populations (F_2–F_5). Yield tests have been conducted for the past three years (2022-24) compared to other check cultivars.**

4. Description of plant material: **GA 183129 is being proposed for release as a new high-oleic, root-knot nematode (RKN) resistant, large-seeded, runner-type peanut cultivar. It has an intermediate decumbent runner growth habit and medium-late maturity, and dark green leaves (Fig. 1). It also has a high level of resistance to tomato spotted wilt virus (TSWV) and root-knot nematode (RKN). For the past six years (2019-2024), field observations and data indicate that these characteristics of GA 183129 are very uniform and stable, and no off-types or variants have been found.**

5. Need for and potential users of plant material: **This potential new cultivar has very good stability, and combines the high-oleic trait with TSWV and RKN-resistance, high-yield, grade, and dollar value. Possibly several peanut seed companies, manufacturers, and growers should be interested in the use of this plant material.**

6. Justification for release:

   A. **During the past three-years (2022–24) averaged over 14 different tests across multilocations in Georgia, GA 183129 was found to have significantly higher percentage of total sound mature kernels (TSMK) as compared to the high-oleic and RKN-resistant cultivar, 'Georgia-19HP' (Table 1).**

   B. **During the past two-years (2023-24) averaged across multiple locations in Georgia (Tables 2-4), GA 183129 was again found to have among the lowest TSWV and total disease (TD) incidence and among the highest pod yield and dollar value when compared to two other RKN-resistant, runner-type peanut cultivars, 'Georgia-14N' and 'Tifguard'. In 2023, it was also significantly higher in yield and dollar value compared to Tifguard (Table 5).**

C. During 2023 at Attapulgus, GA 183129 was found to have very high RKN resistance (Table 6). GA 183129 was also significantly highest in pod yield. Likewise in 2024, GA 183129 had the highest yield than all other RKN-resistant peanut genotypes (Table 7).

D. During three-years (2022-24), GA 183129 was found to have a significantly fewer percentage of fancy pods than Georgia-19HP (Table 8). No significant differences were found for jumbo runner seed size distribution (Table 9), however GA 183129 had significantly higher percentages of total sound mature kernels (TSMK) and meat content than Georgia-19HP.

E. GA 183129 was found to have a significantly higher oleic (O) to linoleic (L) fatty acid ratio than Georgia-19HP, and the normal-oleic cultivar, Georgia-06G (Table 10). GA 183129 was also found to have similar good peanutty taste flavor scores as Georgia-06G.

7. Participating scientists: **W. D. Branch**

8. Location(s) at which plant material was developed: **Coastal Plain Experiment Station**

9. Recommended form of intellectual property protection and royalty:
U.S. Utility Patent and Plant Variety Protection (PVP) with royalty

Cultivar and associate cultivar applications only provide the following information:

10. Method of propagation: **Seed**

11. Amount of breeder seed stocks available (if applicable): **50 lbs**

12. Amount of foundation seed stocks available if applicable: **>1,000 lbs**

13. Amount of cutting or bud material available for vegetatively propagated material for nursery distribution (if applicable): **N/A**

14. Describe any unusual difficulty anticipated in the production of any class of seed stocks: **None**

15. Suggest up to three names for the cultivar, if appropriate:
'Georgia-25NV' (Name preferred by the breeder).

16. Name approved by plant cultivar and germplasm release committee:

APPLICATION FOR RELEASE

(Please keep this as a separate page)

Application for the cultivar release of the advanced peanut breeding line, GA 183129.

Recommended:

A. William P. Branch — Originating Scientist — Date 9/18/25

B. DocuSigned by: B25EB3E6988B409... — Department Head — 09/30/2025 | 4:55 PM EDT — Date

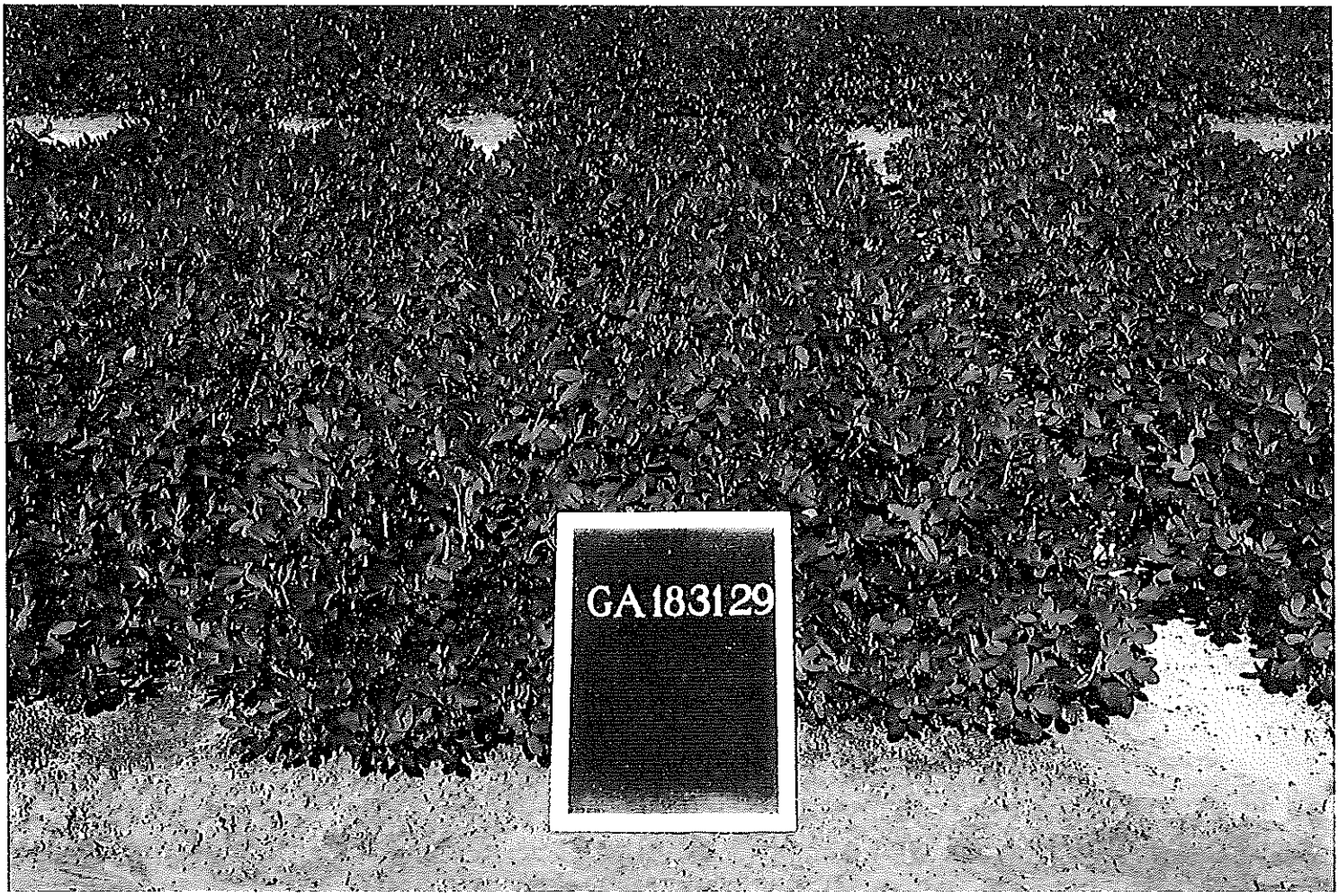
C. DocuSigned by: 19730138AD684F2... — For Griffin and Tifton, Assistant Dean — 09/30/2025 | 5:03 PM EDT — Date

D. DocuSigned by: FAF3B98C85534EF... — Chair, GAES PCGRC — 09/30/2025 | 5:27 PM EDT — Date

E. DocuSigned by: Harshavardhan Thippareddi 6C53D194ADCE4D5... — Associate Dean for Research — 09/30/2025 | 2:43 PM PDT — Date

Approved:

F. DocuSigned by: Harshavardhan Thippareddi 6C53D194ADCE4D5... — Dean and Director — 09/30/2025 | 2:43 PM PDT — Date



(Fig. 1) GA 183129 has an intermediate-decumbent runner growth habit, medium-late maturity (ca. 154 DAP in south GA), and dark green leaves.

Table 1. THREE-YEAR (14 TESTS) AVERAGE DISEASE INCIDENCE, POD YIELD, TOTAL SOUND MATURE KERNEL (TSMK), SEED COUNT, AND DOLLAR VALUES OF GA 183129 AND ANOTHER HIGH-OLEIC, RKN-RESISTANT PEANUT CULTIVAR GEORGIA-19HP AT MULTILOCATIONS IN GEORGIA, 2022-24.

Peanut Genotype	TSWV (%)	TD (%)	Yield (lb/a)	TSMK (%)	Seed (no./lb)	Value ($/a)
•GA 183129	8 a*	18 a	4788 a	76 a	634 a	881 a
•Georgia-19HP	8 a	21 a	4608 a	74 b	619 a	862 a

•High-Oleic

*Means within the columns followed by the same letter are not significantly different at $P \leq 0.10$.

Table 2. TWO-TESTS AVERAGE PERFORMANCE WITH IRRIGATED MAXIMUM-INPUTS AND NONIRRIGATED NO-INPUTS OF 28 RUNNER AND 2 VIRGINIA-TYPE PEANUT GENOTYPES WHEN PLANTED IN EARLY-APRIL AT TIFTON, GA 2024.

Peanut Genotype	TSWV (%)	TD (%)	Yield (lb/a)	TSMK (%)	Seed (no./lb)	Value ($/a)
Runner-Types:						
Georgia-16HO	7.2 a*	31.7 g-k	5156 a	76.4 bcd	614 f-l	929 a
Georgia-21GR	8.5 a	34.3 e-k	4941 a-d	77.4 abc	672 a-f	920 a
Georgia-20VHO	8.0 a	26.0 jk	4938 a-d	76.4 a-d	694 a-d	832 ab
Georgia-22MPR	10.2 a	30.2 ijk	5016 ab	75.2 c-g	669 a-g	812 bc
Georgia-24NHO	10.7 a	31.0 h-k	4905 a-d	76.0 b-e	590 j-m	800 bcd
Georgia-12Y	6.8 a	22.3 k	5002 abc	71.9 ijk	715 ab	791 bcd
Georgia-18RU	11.8 a	51.5 bc	4594 a-g	78.1 ab	667 a-h	790 b-e
Georgia-06G	6.5 a	28.3 ijk	4725 a-e	74.5 d-h	622 e-k	787 b-e
Georgia-07W	8.7 a	45.3 b-f	4084 e-l	75.5 c-f	635 d-j	776 b-f
GA 182521	9.0 a	32.8 f-k	4662 a-f	78.2 ab	608 g-l	776 b-f
TifNV-HG	11.0 a	34.5 e-k	4447 b-l	74.2 d-l	566 k-n	758 b-g
GA 182729	10.5 a	35.7 d-j	4309 d-k	78.7 a	555 lmn	748 b-h
FloRun 'T61'	10.7 a	44.7 b-g	4366 c-j	73.3 f-k	654 b-l	742 b-h
TufRunner '297'	10.7 a	48.3 bcd	4483 b-h	73.4 f-j	597 i-l	738 b-h
FloRun '331'	13.0 a	67.8 a	3984 g-l	73.2 g-k	710 abc	713 c-l
GA 192517	11.2 a	51.8 bc	4312 d-k	74.8 d-g	682 a-e	702 d-j
Georgia Greener	11.3 a	47.8 bcd	4478 b-h	75.0 d-g	672 a-f	688 e-j
AU-NPL 17	11.0 a	40.3 c-l	4153 e-l	71.4 jk	664 b-h	680 f-k
Tifguard	14.3 a	55.0 ab	4160 e-l	71.8 ijk	648 c-j	680 f-k
TifNV-High O/L	15.3 a	47.2 b-e	4016 g-l	71.0 kl	619 f-k	663 g-k
Georgia-09B	10.7 a	51.7 bc	3727 jkl	73.8 e-l	698 abc	649 h-k
GA 163103	6.8 a	32.3 f-k	3678 kl	75.3 c-g	728 a	646 h-k
Georgia-14N	10.3 a	46.2 b-e	3716 kl	76.0 b-e	714 ab	620 ijk
Virginia-Types:						
Georgia-19HP	6.7 a	26.0 jk	4689 a-e	72.4 h-k	605 h-l	829 ab
TifJumbo	13.7 a	44.0 b-h	4580 a-g	68.9 lm	505 no	788 b-e
Georgia-11J	11.3 a	56.0 ab	4235 e-k	71.4 jk	430 p	770 b-f
NC 20	11.7 a	47.3 b-e	4022 f-l	64.6 o	528 n	649 h-k
Sullivan	14.2 a	49.8 bc	3817 i-l	67.1 mn	530 mn	613 ijk
Bailey II	9.3 a	41.3 c-l	3918 h-l	68.0 m	508 no	608 jk
Wynne	11.8 a	50.2 bc	3586 l	65.6 no	462 op	584 k

*Within columns, genotypic means followed by the same letter are not significantly different at P≤0.05.

Table 3. TWO-TESTS AVERAGE PERFORMANCE WITH IRRIGATED MAXIMUM-INPUTS AND NONIRRIGATED NO-INPUTS OF 25 RUNNER AND 3 VIRGINIA-TYPE PEANUT GENOTYPES WHEN PLANTED IN EARLY-APRIL AT TIFTON, GA 2023.

Peanut Genotypes	TSWV (%)	TD (%)	Yield (lb/a)	TSMK (%)	Seed (no./lb)	Value ($/a)
Runner Types:						
Georgia-21GR	8.8 b-i*	36.0 e-k	4682 a	78.6 a	646 b-g	886 a
Georgia-16HO	8.8 b-l	37.8 d-j	4542 a	77.0 a-d	598 h-k	846 ab
Georgia-12Y	8.4 b-l	24.0 jk	4675 a	74.4 b-g	640 d-h	843 ab
Georgia-20VHO	5.3 hi	26.2 h-k	4367 ab	76.6 a-d	622 e-l	803 abc
GA 183129	4.7 l	25.4 ijk	4120 abc	77.4 abc	520 mn	800 abc
Georgia-24NHO	8.4 b-l	31.6 f-k	4062 abc	78.0 abc	563 klm	762 abc
Georgia-23RKN	7.2 c-l	36.6 e-j	3883 abc	76.2 a-e	622 e-l	714 abc
Georgia-22MPR	5.6 ghi	21.6 k	3860 abc	76.2 a-e	616 f-l	710 abc
Georgia-06G	7.8 b-l	43.4 b-g	3953 abc	73.6 d-h	652 b-g	706 abc
AU-NPL 17	8.2 b-l	31.9 f-k	4026 abc	71.1 gh	622 e-l	688 abc
FloRun 'T61'	9.7 b-h	40.9 c-h	3901 abc	72.7 e-h	658 b-f	687 abc
TifNV-HG	10.6 b-e	35.3 e-k	3865 abc	73.4 d-h	571 jkl	684 abc
GA 182729	6.9 d-l	36.8 e-j	3572 abc	79.2 a	545 lm	678 abc
TifNV-High O/L	8.7 b-l	37.8 d-j	3827 abc	72.0 fgh	618 f-l	664 abc
Georgia Greener	10.0 b-g	42.8 b-g	3585 abc	74.2 c-h	690 b	642 abc
TUFRunner '297'	11.8 b	48.8 b-e	3696 abc	71.4 gh	586 i-l	637 abc
GA 182726	6.0 f-l	27.2 h-k	3420 abc	77.4 abc	588 i-l	636 abc
GA 182521	6.8 d-l	35.3 e-k	3396 abc	77.6 abc	558 klm	632 abc
Georgia-09B	11.8 b	55.9 b	3433 abc	75.6 a-f	684 bc	630 abc
FloRun '52N'	8.2 b-l	45.6 b-f	3450 abc	74.4 b-g	742 a	621 abc
FloRun '331'	18.8 a	71.2 a	3473 abc	71.6 gh	668 bcd	604 bc
Georgia-18RU	10.3 b-f	53.8 bc	3096 bc	78.1 ab	644 c-g	582 bc
Georgia-14N	8.4 b-l	44.7 b-g	2960 c	79.2 a	681 bcd	563 c
Tifguard	11.6 bc	51.9 bcd	3181 bc	71.6 gh	664 b-e	552 c
GA 192517	7.8 b-l	57.2 ab	2920 c	77.0 a-d	610 g-j	542 c
Virginia-Types:						
Georgia-19HP	6.6 e-l	30.0 g-k	3798 bcd	71.0 gh	562 klm	684 abc
TifJumbo	11.2 bcd	39.4 c-l	3914 abc	67.0 i	494 n	664 abc
Georgia-11J	12.2 b	45.3 b-f	3544 abc	70.5 hi	410 o	642 abc

*Within columns, means followed by the same letter are not significantly different at P≤0.05.

Table 4. FOUR-TEST AVERAGE PERFORMANCE WITH IRRIGATED MAXIMUM-INPUTS OF 25 RUNNER AND 3 VIRGINIA-TYPE PEANUT GENOTYPES WHEN PLANTED IN EARLY-APRIL AT TIFTON, PLAINS, and MIDVILLE, GA 2023.

Peanut Genotype	TSWV (%)	TD (%)	Yield (lb/a)	TSMK (%)	Seed (no./lb)	Value ($/a)
Runner Types:						
Georgia-21GR	12.0 c-i*	35.2 f-l	5100 a	77.0 a-d	713 cde	944 a
Georgia-20VHO	8.1 ij	25.9 lmn	4850 abc	76.8 a-d	665 f-l	897 ab
Georgia-16HO	14.2 b-f	38.9 c-l	4848 abc	76.2 b-f	659 g-j	890 abc
Georgia-12Y	9.7 g-j	22.7 n	4855 ab	73.5 g-j	689 d-g	862 a-d
Georgia-24NHO	14.2 b-f	29.2 j-n	4630 a-e	76.8 a-d	603 kl	856 a-e
GA 183129	7.7 j	26.1 lmn	4552 a-e	76.8 a-d	564 mn	855 a-e
Georgia-23RKN	11.0 e-j	30.0 i-n	4737 a-d	75.3 c-g	670 fgh	854 a-e
TUFRunner™ '297'	13.7 b-g	38.4 c-j	4494 a-e	72.2 h-k	626 ijk	784 b-f
Georgia-06G	14.1 b-f	36.6 d-k	4362 b-f	74.1 f-l	660 g-j	782 b-f
Georgia-22MPR	9.6 g-j	25.8 mn	4296 b-f	75.2 d-g	662 f-l	776 b-g
AU-NPL 17	10.6 f-j	28.8 k-n	4529 a-e	71.1 kl	654 g-j	776 b-g
Georgia-18RU	14.4 b-f	44.5 b-e	4159 d-g	77.4 abc	676 e-h	771 c-g
GA 182729	11.0 e-j	34.5 g-m	4076 d-g	78.9 a	580 lm	769 c-g
FloRun™ 'T61'	13.3 b-g	36.2 e-k	4380 b-f	72.6 h-k	700 def	769 c-g
FloRun™ '52N'	12.7 c-h	45.6 bcd	4298 b-f	73.4 g-j	774 a	763 d-g
TifNV-HG	15.2 b-e	29.7 i-n	4274 b-f	73.4 g-j	622 jk	756 d-g
Georgia Greener	15.3 bcd	39.9 c-h	4132 d-g	74.4 e-h	740 abc	742 d-g
Georgia-09B	15.8 bc	47.4 bc	4019 efg	75.8 b-f	714 cde	736 efg
GA 182521	11.6 d-j	34.2 g-m	3971 efg	77.0 a-d	604 kl	736 efg
GA 182726	9.7 g-j	22.5 n	3771 fg	77.8 ab	642 h-k	705 fg
TifNV-High O/L	11.5 d-j	33.1 h-m	4101 d-g	70.7 kl	684 efg	701 fg
FloRun™ '331'	22.6 a	61.2 a	4030 efg	70.4 kl	724 bcd	688 fg
GA 192517	11.6 d-j	53.0 ab	3808 fg	75.2 d-g	660 g-j	685 fg
Tifguard	16.0 bc	44.1 b-f	3790 fg	71.9 i-l	686 d-g	663 fg
Georgia-14N	10.5 f-j	42.5 c-g	3604 g	76.4 b-e	756 ab	655 g
Virginia-Types:						
Georgia-19HP	8.6 hij	26.6 lmn	4244 b-g	71.8 jkl	571 lm	782 b-f
Georgia-11J	17.5 b	47.5 bc	4022 efg	69.8 l	428 o	724 fg
TifJumbo	17.4 b	38.9 c-i	4188 c-g	67.2 m	527 n	715 fg

* Within columns, genotypic means followed by the same letter are not significantly different at P≤0.05.

Table 5. MULTIPLE DISEASE ASSESSMENT AND DRYLAND FIELD PERFORMANCE AMONG RUNNER AND VIRGINIA-TYPE PEANUT GENOTYPES WHEN PLANTED EARLY AND GROWN WITHOUT FUNGICIDES OR INSECTICIDES, 2023.

Peanut Genotypes	TSWV (%)	TD (%)	Leafspot (0-9)	WM (%)	Yield (lb/a)	Value ($/a)
Runner-Types						
Georgia-12Y	2.5 e*	15.6 l	2.8 e-h	15.6 g	4257 a	742 a
Georgia-16HO	5.0 b-e	27.5 f-l	4.5 ab	35.0 c-f	3626 abc	665 ab
Georgia-21GR	4.4 cde	26.9 f-l	3.8 bcd	57.5 b	3488 bc	655 ab
AU-NPL 17	3.8 de	26.9 f-l	1.2 k	16.2 g	3610 abc	628 abc
Georgia-06G	3.8 de	35.0 c-f	2.2 g-j	34.4 c-f	3521 bc	621 abc
Georgia-20VHO	2.5 e	24.4 f-l	2.0 h-k	38.8 cd	3339 b-f	619 abc
TifNV-High O/L	6.2 bcd	29.4 e-h	1.5 jk	16.2 g	3469 bcd	612 bcd
FloRun '52N'	3.8 de	34.4 c-g	1.2 k	16.2 g	3348 b-f	607 bcd
GA 183129	3.8 de	21.9 ghi	2.5 f-l	33.1 c-g	3289 b-f	604 bcd
Georgia-24NHO	3.8 de	28.8 e-h	3.5 cde	36.2 cde	3180 b-h	597 bcd
Georgia-23RKN	3.8 de	28.1 e-l	3.5 cde	58.8 ab	3213 b-g	596 bcd
Georgia-09B	7.5 bc	46.2 bcd	2.5 f-l	31.2 c-g	3267 b-f	592 bcd
TifNV-HG	6.2 bcd	33.1 efg	2.5 f-l	30.6 c-g	3360 b-e	591 b-e
FloRun 'T61'	7.5 bc	40.6 b-e	2.5 f-l	22.5 d-g	3393 b-e	585 b-e
Georgia-22MPR	2.5 e	16.9 hi	4.0 bc	38.8 cd	3156 b-h	564 b-f
Georgia Greener	6.2 bcd	33.8 d-g	1.8 ijk	34.4 c-f	3102 c-l	550 b-f
FloRun '331'	13.1 a	60.6 a	2.0 h-k	19.4 efg	3119 c-l	525 c-g
GA 182729	4.4 cde	23.1 f-l	3.8 bcd	62.5 ab	2748 d-j	521 c-g
Georgia-14N	5.0 b-e	26.9 f-l	2.8 e-h	23.1 d-g	2701 e-j	514 c-g
Gerogia-18RU	2.5 e	33.1 efg	5.2 a	76.2 a	2632 f-j	487 d-h
TUFRunner '297'	6.2 bcd	46.9 bc	2.8 e-h	46.2 bc	2947 c-l	461 e-h
GA 182521	3.1 de	25.6 f-l	3.0 d-g	60.0 ab	2521 g-j	452 fgh
GA 192517	3.1 de	49.4 ab	4.5 ab	45.6 bc	2421 ij	449 fgh
Tifguard	8.1 b	49.4 ab	2.8 e-g	37.5 cd	2479 hij	413 gh
GA 182726	3.8 de	25.6 f-l	2.2 g-j	38.1 cd	2027 j	369 h
Virginia-Types:						
TifJumbo	7.5 bc	28.1 e-l	1.8 ijk	18.1 fg	3864 ab	668 ab
Georgia-11J	5.6 b-e	30.6 efg	3.2 c-f	23.8 d-g	3585 abc	634 abc
Georgia-19HP	3.8 de	25.6 f-i	1.2 k	38.1 cd	3125 c-l	577 b-f

*Within columns, genotypic means followed by the same letter are not significantly different at $P \leq 0.05$.

Table 6. AVERAGE ROOT-KNOT NEMATODE (RKN) COUNT, ROOT GALL RATING, AND POD YIELD OF GA 183129 VS 16 OTHER RESISTANT AND SUSCEPTIBLE PEANUT GENOTYPES IN A HIGHLY INFECTED RKN FIELD TEST AT ATTAPULGUS, GA, 2023.

Peanut Genotype	RKN[1] (no.)	Gall Rating[2] (0-100%)	Pod Yield (lb/a)
GA 183129	1.5 e*	2.5 cde	4318 a
Georgia-19HP	48.8 e	2.0 cde	3863 b
TifJumbo	246.8 de	0.8 e	3861 b
Georgia-22MPR	7.5 e	1.8 de	3799 bc
GA 193512	0.5 e	0.2 e	3775 bc
GA 192519	58.5 e	0.0 e	3660 bcd
Georgia-23RKN	9.3 e	0.0 e	3634 bcd
Georgia-24NHO	55.8 e	2.0 cde	3535 bcd
TifNV-HG	3.8 e	1.5 e	3453 b-e
GA 182521	16.5 e	0.2 e	3377 c-f
GA 183126	5.3 e	0.2 e	3313 def
Georgia-14N	36.5 e	1.5 e	3087 ef
Tifguard	721.8 bc	17.2 bcd	3009 f
TifNV-High O/L	552.0 cd	17.5 bc	2978 f
GA 193520	600.5 cd	67.5 a	2084 g
GA 182729	1011.8 b	28.8 b	1843 gh
Georiga-07W	1980.8 a	67.5 a	1542 h

*Means within the same column followed by the same letter are not significantly different at P≤0.05.

[1]Number of RKN juvenile per 100cc of soil.

[2]Visual rating of the percentage of roots (0-100%) per plot with damage from RKN.

Table 7. AVERAGE ROOT-KNOT NEMATODE (RKN) COUNT, ROOT GALL RATING, AND POD YIELD OF GA 183129 VS 16 OTHER RESISTANT AND SUSCEPTIBLE PEANUT GENOTYPES IN A HIGHLY INFECTED RKN FIELD TEST AT ATTAPULGUS, GA, 2024.

Peanut Genotype	RKN[1] (no.)	Gall Rating[2] (0-100%)	Pod Yield (lb/a)
GA 183129	3.8 b*	0.0 b	4738 a
GA 223602	11.2 b	0.0 b	4658 ab
GA 223615	11.5 b	0.2 b	4642 ab
GA 223619	0.0 b	0.0 b	4536 abc
GA 223603	0.0 b	0.0 b	4326 a-d
GA 223614	0.0 b	0.8 b	4318 a-d
GA 223616	0.0 b	0.0 b	4286 a-d
GA 223607	0.0 b	0.0 b	4215 a-d
GA 223610	1.2 b	0.0 b	4186 a-d
GA 223601	1.8 b	0.5 b	4096 bcd
Georgia-19HP	31.0 b	0.2 b	4048 bcd
GA 223605	0.5 b	1.8 b	4046 bcd
GA 223608	0.0 b	0.0 b	3991 c-d
Georgia-14N	63.0 b	13.8 ab	3904 d
GA 223604	0.0 b	0.0 b	3814 d
GA 223606	3.8 b	3.2 b	3812 d
Georiga-07W	453.5 a	28.8 a	3771 d

*Means within the same column followed by the same letter are not significantly different at P≤0.05.

[1]Number of RKN juvenile per 100cc of soil.

[2]Visual rating of the percentage of roots (0-100%) per plot with damage from RKN.

Table 8. THREE-YEAR (8 TESTS) AVERAGE POD PRESIZER DISTRIBUTION OF GA 183129 VS GEORGIA-19HP, 2022-24.

Runner Genotype	Fancy Pods†	Roller Spacing		
		>15 mm	<15 ≥13.49mm	<13.49 mm
	(%)			
GA 183129	63 b*	6 b	57 a	37 a
Georgia-19HP	81 a	19 a	62 a	19 b

† Fancy pods = ≥15.08 and (<15.08 and ≥13.49 mm) summed together.

* Means within columns followed by the same letter are not significantly different at P≤0.10.

Table 9. THREE-YEAR (8-TESTS) AVERAGE SHELLING PERCENTAGE OUTTURN OF GA 183129 VS GEORGIA-19HP, 2022-24.

Runner Variety	Jumbo†	Med.‡	No. 1¶	Total Sound Mature Kernels	Other Kernels	Damaged Kernels	Meat	Hull
	%							
GA 183129	57 a*	12 a	1 a	78 a	1 a	0 a	79 a	21 b
Georgia-19HP	54 a	15 a	2 a	75 b	0 b	0 a	76 b	24 a

†Jumbo = ≥8.33 by 19.05 mm screen.
‡Medium = <8.33 and ≥7.14 by 19.05 mm screen.
¶No. 1 = <7.14 and ≥6.35 by 19.05 mm screen.
*Within columns, means followed by the same letter are not significantly different at P≤0.10.

Table 10. AVERAGE ROASTED PEANUTTY FLAVOR, SWEET TASTE FLAVOR AND OLEIC (O) TO LINOLEIC (L) FATTY ACID RATIO OF GA 183129 VS TWO OTHER PEANUT CULTIVARS, 2022 and 2024, RESPECTIVELY.

Peanut Genotype	Roasted Peanutty Flavor†	Sweet Taste Flavor†	O/L Ratio‡
•GA 183129	6.3 a*	2.3 b	35.7 a
•Georgia-19HP	-	-	28.1 b
Georgia-06G	6.6 a	2.6 a	2.5 c

* Within columns, mean followed by the same letter are not significantly different at P≤0.05.

† Roasted peanutty and sweet taste flavor scores are on a 0-10 scale, where 0 = none and 10 = strong peanut intensity. A good roasted peanutty score is 5-7 if free of off flavors.

‡ • High-Oleic