

Supplementary table 1. Peanut pod yield production for runner type cultivars reported as in shell weight (kilograms/plot)

Cultivar	Dryland 23	Irrigated 23	Dryland 24	Irrigated 24
587	2.48 ^{a, abc}	2.56 ^a	1.97 ^{a, b}	3.96 ^{b, a}
AP3	2.81 ^{a, abc}	3.19 ^a	2.79 ^{a, b}	4.89 ^{b, a}
AT 3085R0	2.98 ^{a, abc}	3.72 ^a	2.27 ^{a, ab}	4.06 ^{b, a}
AU16-28	3.86 ^{a, a}	3.74 ^a	2.36 ^{a, ab}	4.88 ^{b, a}
AU18-35	3.58 ^{a, ab}	5.32 ^b	2.69 ^{a, a}	5.82 ^{b, a}
AUNPL17	3.76 ^{a, ab}	4.70 ^a	2.87 ^{a, ab}	5.28 ^{b, a}
C7616	2.41 ^{a, bc}	3.03 ^a	2.75 ^{a, b}	4.40 ^{b, a}
GA06G	3.68 ^{a, ab}	3.92 ^a	2.44 ^{a, ab}	5.08 ^{b, a}
GA GREEN	2.15 ^{a, c}	3.12 ^b	2.50 ^{a, b}	4.26 ^{b, a}
LINE 8	2.62 ^{a, abc}	3.76 ^a	2.15 ^{a, ab}	4.58 ^{b, a}
PI 493323	3.10 ^{a, abc}	4.10 ^a	2.68 ^{a, ab}	4.84 ^{b, a}
PI 502120	2.66 ^{a, abc}	3.86 ^a	2.72 ^{a, ab}	5.64 ^{b, a}
TIFRUNNER	2.80 ^{a, abc}	3.47 ^b	2.14 ^{a, ab}	4.74 ^{b, a}

Means are compared between treatments within each year. Means are not compared between years as each year experienced differences in environmental and soil dry down conditions. First letter compares means between treatment with students T-TEST, second between genotypes with Tukey-Kramer HSD. Levels not connected by same letter are significantly different with $p < 0.05$.

Supplementary table 2. Peanut pod yield for runner type cultivars sorted by commercial size classification (grams/plot)

Cultivar	Dryland 23			Irrigated 23			Dryland 24			Irrigated 24		
	Jumbos	Medium	US No. 1	Jumbos	Medium	US No. 1	Jumbos	Medium	US No. 1	Jumbos	Medium	US No. 1
587	452.3 ^{a, d}	785.1 ^{a, bc}	146.3 ^{b, bcd}	365.8 ^{a, d}	802.9 ^{a, bc}	300.0 ^{a, ab}	102.8 ^{b, a}	533.8 ^{b, a}	452.6 ^{a, ab}	474.58 ^{a, e}	1230.8 ^{a, b}	468.35 ^{a, ab}
AP3	837.2 ^{a, abcd}	583.0 ^{a, c}	89.6 ^{b, cd}	778.8 ^{a, bcd}	699.6 ^{a, c}	189.1 ^{a, bc}	318.1 ^{b, a}	902.6 ^{b, a}	276.4 ^{a, b}	954.7 ^{a, bc}	1466.7 ^{a, ab}	326.4 ^{a, bcd}
AT 3085R0	870.0 ^{a, abcd}	822.7 ^{a, bc}	125.5 ^{b, bcd}	1057.0 ^{a, abc}	1034.6 ^{a, abc}	255.9 ^{a, abc}	377.9 ^{b, a}	647.9 ^{b, a}	302.6 ^{a, ab}	1004.2 ^{a, bc}	1181.5 ^{a, b}	289.9 ^{a, cd}
AU16-28	437.4 ^{a, d}	1296.8 ^{a, a}	408.4 ^{a, a}	595.0 ^{a, cd}	1613.8 ^{a, ab}	375.2 ^{a, a}	114.3 ^{b, a}	683.6 ^{b, a}	620.5 ^{a, a}	523.1 ^{a, de}	1818.3 ^{a, a}	545.8 ^{a, a}
AU18-35	907.0 ^{b, NA}	1071.6 ^{b, b}	208.8 ^{b, bc}	1506.4 ^{a, a}	1458.6 ^{a, a}	353.6 ^{a, a}	233.6 ^{b, a}	882.5 ^{b, a}	517.8 ^{a, ab}	1293.7 ^{a, ab}	1813.0 ^{a, a}	401.0 ^{a, bc}
AUNPL17	1085.7 ^{a, ab}	974.6 ^{a, bc}	304.1 ^{a, b}	1294.9 ^{a, ab}	982.1 ^{a, abc}	215.4 ^{a, ab}	343.7 ^{b, a}	848.9 ^{b, a}	421.7 ^{a, ab}	1251.8 ^{a, ab}	1490.0 ^{a, ab}	353.3 ^{a, bcd}
C7616	502.6 ^{a, cd}	664.9 ^{a, bc}	121.0 ^{a, bcd}	850.15 ^{a, abcd}	665.2 ^{a, c}	185.9 ^{a, bc}	334.9 ^{b, a}	878.5 ^{a, a}	411.4 ^{a, ab}	958.0 ^{a, bc}	1374.2 ^{a, ab}	260.0 ^{a, cd}
GA06G	1191.9 ^{a, a}	833.5 ^{a, bc}	179.0 ^{a, bcd}	1379.8 ^{a, ab}	911.5 ^{a, bc}	187.9 ^{a, bc}	272.2 ^{b, a}	835.7 ^{b, a}	456.2 ^{b, ab}	1300.6 ^{a, ab}	1556.4 ^{a, ab}	283.3 ^{a, cd}
GA GREEN	661.9 ^{a, bcd}	531.7 ^{a, c}	74.8 ^{a, d}	992.1 ^{a, abcd}	751.2 ^{a, c}	147.8 ^{b, c}	327.8 ^{b, a}	756.7 ^{b, a}	357.7 ^{a, ab}	1117.3 ^{a, abc}	1171.6 ^{a, b}	212.0 ^{a, d}
LINE 8	530.9 ^{a, cd}	733.2 ^{a, bc}	213.9 ^{a, bcd}	895.7 ^{a, abcd}	1033.0 ^{a, abc}	179.7 ^{a, bc}	187.2 ^{b, a}	594.5 ^{b, a}	443.0 ^{a, ab}	807.7 ^{a, cde}	1474.2 ^{a, ab}	344.8 ^{a, bcd}
PI 493323	718.3 ^{a, abcd}	882.4 ^{a, bc}	173.8 ^{a, bcd}	1041.8 ^{a, abcd}	1141.0 ^{a, abc}	290.5 ^{b, ab}	185.1 ^{b, a}	863.5 ^{b, a}	513.1 ^{a, ab}	875.3 ^{a, cd}	1525.0 ^{a, ab}	409.9 ^{a, bc}
PI 502120	825.3 ^{a, abcd}	688.4 ^{a, bc}	131.68 ^{a, bcd}	1285.8 ^{a, ab}	850.15 ^{a, bc}	193.0 ^{a, bc}	239.8 ^{b, a}	921.9 ^{b, a}	445.0 ^{a, ab}	1402.7 ^{a, a}	1828.2 ^{a, a}	339.0 ^{a, bcd}
TIFRUNNER	1015.3 ^{a, abc}	668.6 ^{a, bc}	107.0 ^{b, bcd}	1229.2 ^{a, abc}	766.1 ^{a, bc}	183.2 ^{a, bc}	408.8 ^{b, a}	534.1 ^{b, a}	246.9 ^{a, b}	1247.8 ^{a, ab}	1289.0 ^{a, ab}	290.7 ^{a, cd}

Means are compared between treatments within each year. Means are not compared between years as each year experienced differences in environmental and soil dry down conditions. First letter compares means between treatment with students T-TEST, second between genotypes with Tukey-Kramer HSD. Levels not connected by same letter are significantly different with $p < 0.05$.