

Dryland trials

2009/10

Potchefstroom

Lichtenburg

Schweizer-Reneke

Hoopstad

Setlagole

Vierfontein

Vaalharts

Table 50 The pod yield (kg/ha) of each cultivar at the different localities, 2011/12

Cultivar	Pot chef stroom	Lich ten bur	Schwei zer neke	Hoop stad	Set la gole	Vier fon tein	Vaal harts	Mean
Akwa	3598.76	2485.18	1759.25	4285.02	1580.24	1514.40	2622.22	2549.30
Ane1	3800.41	2585.39	1800.41	4282.60	1971.19	1510.28	3038.88	2712.74
PC 357 K1	3876.54	2853.91	1934.15	3978.26	1602.88	1477.36	2577.77	2614.41
PC 369 K2	3967.07	2860.70	1724.28	4024.15	1925.92	1312.75	2333.33	2592.60
Inkanyezi	3613.16	2574.28	2345.67	3113.52	2057.61	1744.85	3772.22	2745.90
Kwartz	3442.38	2697.32	2189.30	4275.36	1814.81	1658.43	3533.33	2801.56
PC 371 K1	3590.53	2967.69	2080.24	3876.81	2047.32	1518.51	2322.22	2629.05
PC 369 K3	3613.16	2703.29	2010.28	4120.77	1818.93	1421.81	2255.55	2563.40
Tufa	3827.16	2776.54	2358.02	4731.88	1783.95	1512.34	3416.66	2915.22
PC 299 K1	3553.49	3069.13	1771.60	3666.66	2228.39	1360.30	3038.88	2669.78
ARC-01eic2	2927.98	2703.29	1691.35	4095.65	1942.38	1106.99	3522.22	2569.98
PC 338 K3	3401.23	2787.24	2244.85	3765.70	1975.30	1146.09	2827.77	2592.60
ARC-0pa11	4002.05	2954.93	2024.69	3599.03	1753.08	1641.97	3027.77	2714.79
SA Juweel	3098.76	2592.79	2125.51	4111.11	1458.84	1037.03	1677.77	2300.26
Mean	3593.76	2757.98	2004.26	3994.75	1854.35	1425.94	2854.76	2640.83
LSD (5%)	496	395	472	468	800	597	1279	
CV	8	9	14	7	26	25	27	

MAKSIPLAN 2012

Dryland trial 2011/12

Table 51 The kernel yield (kg/ha) of each cultivar at the different localities, 2011/12

Cultivar	Pot chef stroom	Lich ten burg	Schwei zer neke	Hoop stad	Setla gole	Vier fon tein	Vaal harts	Mean
Akwa	2740.10	1849.97	1347.59	2564.15	1153.26	962.25	1779.44	1770.97
Anel	2788.74	1909.05	1350.66	2939.58	1416.50	901.04	2149.71	1922.18
PC 357 K1	2839.95	2090.77	1387.17	2367.86	1149.90	938.72	1752.88	1789.61
PC 369 K2	2995.93	2174.13	1312.86	2335.62	1430.57	762.45	1632.86	1806.35
Inkanyezi	2432.38	1890.03	1706.24	2018.81	1477.36	1238.15	2633.01	1913.71
Kwartz	2637.55	1986.85	1627.08	2942.30	1197.77	1004.01	2472.62	1981.17
PC 371 K1	2732.39	2267.31	1558.93	2661.04	1514.20	982.18	1312.98	1861.29
PC 369 K3	2634.00	2009.62	1527.01	2275.49	1338.73	897.16	1561.74	1749.11
Tufa	2846.64	2090.73	1782.19	2813.57	1319.05	1039.88	2536.53	2061.23
PC 299 K1	2567.75	2228.19	1342.87	2109.06	1698.48	929.09	2051.25	1846.67
ARC-01eic2	2108.73	1930.15	1277.99	2226.39	1326.26	587.37	2410.60	1695.36
PC 338 K3	2406.03	1956.08	1634.70	2163.01	1392.98	676.65	1793.94	1717.63
ARC-0pa11	3051.96	2259.34	1553.74	2430.78	1248.89	1045.93	2175.76	1966.63
SA Juweel	2179.67	1898.44	1504.01	2133.66	957.00	561.24	1116.05	1478.58
Mean	2640.13	2038.62	1493.79	2427.24	1330.07	894.72	1955.67	1825.75
LSD (5%)	368	294	350	278	570	362	886	
CV	8	9	14	7	26	24	27	

MAKSIPLAN 2012

Dryland trial 2011/12

Table 52 Shelling percentage (%) of each cultivar at the different localities 2011/12

Cultivar	Pot chef stroom	Lich ten burg	Schwei zer neke	Hoop stad	Set la gole	Vier fon tein	Vaal harts	Mean
Akwa	76.14	74.44	76.60	59.84	72.98	63.54	67.86	70.20
Anel	73.38	73.84	75.02	68.64	71.86	59.66	70.74	70.45
PC 357 K1	73.26	73.26	71.72	59.52	71.74	63.54	68.00	68.72
PC 369 K2	75.52	76.00	76.14	58.04	74.28	58.08	69.98	69.72
Inkanyezi	67.32	73.42	72.74	64.84	71.80	70.96	69.80	70.13
Kwartz	76.62	73.66	74.32	68.82	66.00	60.54	69.98	69.99
PC 371 K1	76.10	76.40	74.94	68.64	73.96	64.68	56.54	70.18
PC 369 K3	72.90	74.34	75.96	55.22	73.60	63.10	69.24	69.19
Tufa	74.38	75.30	75.58	59.46	73.94	68.76	74.24	71.67
PC 299 K1	72.26	72.60	75.80	57.52	76.22	68.30	67.50	70.03
ARC-01eic2	72.02	71.40	75.56	54.36	68.28	53.06	68.44	66.16
PC 338 K3	70.74	70.18	72.82	57.44	70.52	59.04	63.44	66.31
ARC-0pa11	76.26	76.46	76.74	67.54	71.24	63.70	71.86	71.97
SA Juweel	70.34	73.22	70.76	51.90	65.60	54.12	66.52	64.64
Mean	73.37	73.89	74.62	60.84	71.57	62.22	68.15	69.24

MAKSIPLAN 2012

Dryland trial 2011/12

Table 53 Percentage (%) kernels on the 9.0 mm screen at the different localities. 2011/12

Cultivar	Pot chef stroom	Lich ten burg	Schwei zer neke	Hoop stad	Set la gole	Vier fon tein	Vaal harts	Mean
Akwa	9.55	2.10	6.40	21.70	7.10	0.00	1.85	6.96
Anel	3.70	2.25	4.85	9.10	6.40	0.00	0.25	3.79
PC 357 K1	4.50	2.15	2.45	16.50	7.75	1.40	1.10	5.12
PC 369 K2	6.25	1.50	4.40	16.90	7.90	0.55	1.10	5.51
Inkanyezi	1.30	2.00	1.25	1.10	2.70	1.25	0.35	1.42
Kwartz	4.85	4.90	9.70	13.20	8.00	0.00	0.30	5.85
PC 371 K1	4.10	2.55	2.55	9.40	7.80	1.55	0.65	4.09
PC 369 K3	4.50	2.40	3.90	7.90	3.45	0.00	0.35	3.21
Tufa	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.05
PC 299 K1	1.65	1.70	0.40	3.80	2.85	0.90	1.15	1.78
ARC-01eic2	1.40	1.15	0.40	12.50	4.10	0.00	1.60	3.02
PC 338 K3	5.60	0.25	4.40	10.45	5.60	0.60	1.95	4.12
ARC-0pa11	11.40	3.55	6.50	2.90	8.50	0.80	1.45	5.01
SA Juweel	4.45	0.35	3.80	2.85	4.75	0.70	0.25	2.45
Mean	4.52	1.92	3.64	9.19	5.49	0.55	0.88	3.74

MAKSIPLAN 2012

Dryland trial 2011/12

Table 54 Percentage (%) kernels on the 8.25 mm screen at the different localities, 2011/12

Cultivar	Pot chef stroom	Lich ten burg	Schwei zer neke	Hoop stad	Set la gole	Vier fon tein	Vaal harts	Mean
Akwa	43.30	26.25	34.30	68.70	43.45	8.05	15.20	34.18
Anel	25.60	25.60	23.20	54.65	26.60	4.00	4.75	23.49
PC 357 K1	31.15	25.30	17.70	52.40	39.90	11.30	15.35	27.59
PC 369 K2	30.60	39.30	31.85	68.50	31.30	5.45	19.55	32.36
Inkanyezi	14.25	19.30	12.40	30.30	31.75	13.95	15.50	19.64
Kwartz	30.20	34.00	39.10	56.50	33.55	4.55	18.10	30.86
PC 371 K1	35.45	41.25	39.05	60.90	37.85	12.20	9.40	33.73
PC 369 K3	28.40	30.65	31.85	55.00	31.55	4.50	16.95	28.41
Tufa	3.70	1.00	4.40	0.35	1.90	0.20	2.40	1.99
PC 299 K1	14.65	20.40	14.55	41.15	27.30	9.75	10.95	19.82
ARC-01eic2	23.90	20.75	19.20	63.00	26.25	1.60	12.55	23.89
PC 338 K3	31.00	32.65	39.00	62.55	34.85	8.30	17.00	32.19
ARC-0pa11	44.10	52.80	47.40	47.05	42.10	9.55	17.60	37.23
SA Juweel	19.70	18.20	24.50	37.65	20.35	3.65	4.25	18.33
Mean	26.86	27.68	27.04	49.91	30.62	6.93	12.83	25.98

MAKSIPLAN 2012

Dryland trial 2011/12

Table 55 Percentage (%) kernels on the 7.5 mm screen at the different localities, 2011/12

Cultivar	Pot chef stroom	Lich ten burg	Schwei zer neke	Hoop stad	Set la gole	Vier fon tein	Vaal harts	Mean
Akwa	75.60	69.10	77.25	94.35	77.05	28.15	53.00	67.79
Anel	63.35	62.00	63.05	87.15	57.65	13.10	32.10	54.06
PC 357 K1	62.90	63.70	53.80	85.75	76.00	39.35	52.35	61.98
PC 369 K2	67.85	73.20	75.20	95.20	66.45	21.90	51.15	64.42
Inkanyezi	47.55	63.55	51.40	78.35	71.15	50.30	49.05	58.76
Kwartz	68.25	68.55	76.90	84.00	72.50	27.60	57.70	65.07
PC 371 K1	70.15	79.25	77.90	90.65	74.70	40.35	44.40	68.20
PC 369 K3	67.90	71.05	77.45	91.05	68.20	22.50	48.10	63.75
Tufa	35.70	21.10	37.30	52.45	28.20	6.20	19.45	28.63
PC 299 K1	47.85	65.10	58.20	86.45	71.70	45.00	48.15	60.35
ARC-01eic2	54.50	58.20	59.60	92.60	59.75	9.60	42.10	53.76
PC 338 K3	65.20	70.30	77.45	92.05	76.55	28.50	51.15	65.89
ARC-0pa11	79.20	81.95	85.60	86.50	73.75	40.00	49.85	70.98
SA Juweel	48.60	62.40	60.15	83.00	43.20	13.45	29.70	48.64
Mean	61.04	64.96	66.52	85.68	65.49	27.57	44.88	59.45

MAKSIPLAN 2012

Dryland trial 2011/12

Table 56 Percentage (%) kernels on the 6.75 mm screen at the different localities, 2011/12

Cultivar	Pot chef stroom	Lich ten burg	Schwei zer neke	Hoop stad	Set la gole	Vier fon tein	Vaal harts	Mean
Akwa	89.50	82.60	93.85	98.90	92.00	58.15	76.90	84.56
Anel	85.45	81.10	87.55	96.35	82.85	36.50	54.75	74.94
PC 357 K1	78.00	82.25	80.70	96.15	92.50	70.70	76.40	82.39
PC 369 K2	87.70	87.60	92.65	98.85	86.05	50.30	75.80	82.71
Inkanyezi	76.85	88.30	85.60	93.15	92.85	80.10	73.35	84.31
Kwartz	89.00	87.80	91.25	95.85	92.40	52.70	80.60	84.23
PC 371 K1	84.35	87.25	91.85	98.65	89.40	70.15	72.85	84.93
PC 369 K3	85.10	82.75	89.60	97.40	86.80	52.75	74.05	81.21
Tufa	74.40	67.45	85.20	86.60	81.85	36.65	59.25	70.20
PC 299 K1	77.05	87.90	90.15	95.75	92.45	76.90	78.10	85.47
ARC-01eic2	80.65	80.75	83.55	96.55	79.55	27.85	72.30	74.46
PC 338 K3	86.35	82.35	93.60	96.55	92.65	57.75	70.20	82.78
ARC-0pa11	89.70	92.15	96.00	97.45	87.15	69.05	73.70	86.46
SA Juweel	73.65	87.05	86.15	97.95	71.25	42.25	63.95	74.61
Mean	82.70	84.09	89.12	96.15	87.12	55.84	71.59	80.95

MAKSIPLAN 2012

Dryland trial 2011/12

Table 57 Percentage (%) kernels on the 6.00 mm screen at the different localities, 2011/12

Cultivar	Pot chef stroom	Lich ten burg	Schwei zer neke	Hoop stad	Set la gole	Vier fon tein	Vaal harts	Mean
Akwa	1.95	4.95	2.40	0.50	4.95	22.80	6.65	6.31
Anel	7.25	8.00	6.65	3.15	8.50	26.65	6.95	9.59
PC 357 K1	5.05	6.35	7.35	3.10	3.90	18.40	6.00	7.16
PC 369 K2	5.10	3.50	3.20	0.20	7.55	24.65	6.65	7.26
Inkanyezi	12.70	5.50	8.35	3.15	3.80	10.40	9.45	7.62
Kwartz	3.70	5.10	2.15	3.35	5.45	23.05	6.30	7.01
PC 371 K1	3.90	4.30	2.05	1.10	4.60	19.75	7.90	6.23
PC 369 K3	6.30	3.85	5.60	0.30	7.25	25.30	9.45	8.29
Tufa	15.00	20.85	12.15	4.65	13.90	37.30	25.25	18.44
PC 299 K1	9.65	6.15	4.00	1.20	4.10	13.90	6.50	6.50
ARC-01eic2	9.40	7.05	11.00	0.70	10.55	27.80	12.55	11.29
PC 338 K3	5.20	7.40	1.90	0.40	4.95	20.45	5.65	6.56
ARC-0pa11	2.90	2.20	2.60	2.10	4.45	15.75	5.50	5.07
SA Juweel	9.95	5.30	9.50	1.20	18.50	25.75	19.15	12.76
Mean	7.00	6.46	5.64	1.79	7.32	22.28	9.57	8.58

MAKSIPLAN 2012

Dryland trial 2011/12

Table 58 Percentage (%) kernels in the pan at the different localities, 2011/12

Cultivar	Pot chef stroom	Lich ten burg	Schwei zer neke	Hoop stad	Set la gole	Vier fon tein	Vaal harts	Mean
Akwa	0.75	1.40	1.90	10.00	1.10	14.40	3.15	4.67
Anel	1.40	3.45	1.90	10.00	2.60	29.15	2.60	7.30
PC 357 K1	1.40	1.75	2.65	0.50	0.60	6.90	3.15	2.42
PC 369 K2	1.75	1.60	1.00	7.63	2.70	15.75	1.65	4.58
Inkanyezi	3.70	1.55	1.75	2.30	0.55	4.80	3.35	2.57
Kwartz	1.20	3.00	0.60	0.30	1.05	18.95	2.15	3.89
PC 371 K1	1.60	1.85	1.60	0.15	0.60	7.35	2.10	2.18
PC 369 K3	1.65	1.65	2.40	1.55	2.15	19.00	3.65	4.58
Tufa	3.35	4.35	1.75	8.65	1.00	16.80	5.65	5.94
PC 299 K1	2.30	0.95	0.90	2.00	0.85	4.90	1.85	1.96
ARC-01eic2	2.85	3.25	2.30	2.55	6.75	36.90	3.40	8.29
PC 338 K3	1.80	4.15	1.65	2.15	0.65	13.90	2.85	3.88
ARC-0pa11	0.90	0.55	0.65	0.20	2.00	10.75	2.05	2.44
SA Juweel	3.40	3.25	1.75	5.00	5.75	25.55	4.60	7.04
Mean	2.00	2.34	1.63	3.78	2.02	16.08	3.01	4.41

MAKSIPLAN 2012

Dryland trial 2011/12

Table 59 Percentage (%) splits at the different localities, 2011/12

Cultivar	Pot chef stroom	Lich ten burg	Schwei zer neke	Hoop stad	Set la gole	Vier fon tein	Vaal harts	Mean
Akwa	7.05	10.45	1.40	0.50	0.55	0.30	11.60	4.55
Anel	5.35	6.60	2.75	0.20	3.90	0.80	34.62	7.75
PC 357 K1	14.35	7.25	8.45	0.00	1.70	0.70	13.35	6.54
PC 369 K2	5.25	6.30	2.35	0.95	1.40	0.75	14.55	4.51
Inkanyezi	4.55	3.75	2.80	1.20	1.90	4.05	12.50	4.39
Kwartz	4.75	2.80	5.95	10.00	0.35	0.35	9.35	4.79
PC 371 K1	10.05	6.15	4.40	0.10	5.00	0.35	16.55	6.09
PC 369 K3	6.40	11.50	1.65	0.75	1.05	0.15	11.70	4.74
Tufa	5.50	2.30	0.40	0.00	0.00	0.15	6.45	2.11
PC 299 K1	10.00	4.05	3.80	1.05	1.55	1.40	13.25	5.01
ARC-01eic2	5.75	8.40	1.95	0.00	0.45	0.45	10.05	3.86
PC 338 K3	6.00	4.35	2.45	0.90	1.15	1.20	19.35	5.06
ARC-0pa11	5.80	4.40	0.40	10.00	5.40	1.15	18.25	6.49
SA Juweel	11.20	4.15	1.75	0.80	0.55	0.35	8.25	3.86
Mean	7.29	5.89	2.89	1.89	1.78	0.87	14.27	4.98

MAKSIPLAN 2012

Dryland trial 2011/12

Table 60 Percentage (%) unsound, blemished and soiled kernels in the edible grade at the different localities, 2011/12

Cultivar	Pot chef stroom	Lich ten burg	Schwei zer Re neke	Hoop stad	Set la gole	Vier fon tein	Vaal harts	Mean
Akwa	3.23	0.87	2.36	0.00	3.59	0.49	2.92	1.92
Anel	2.04	4.59	3.86	0.00	3.25	0.39	1.40	2.22
PC 357 K1	4.71	4.01	2.54	0.45	4.18	2.61	5.19	3.38
PC 369 K2	1.78	1.64	3.91	0.30	4.26	1.77	2.41	2.30
Inkanyezi	3.02	0.67	4.54	1.64	2.58	2.01	3.92	2.62
Kwarts	3.47	1.93	2.87	0.00	3.21	1.31	3.20	2.28
PC 371 K1	0.61	0.87	3.05	2.00	2.63	3.05	2.26	2.07
PC 369 K3	1.79	1.53	1.96	0.00	3.52	1.47	3.44	1.96
Tufa	3.04	0.66	0.66	0.88	3.19	0.88	1.32	1.52
PC 299 K1	2.27	4.58	2.19	1.38	2.39	2.17	1.28	2.32
ARC-01eic2	4.42	3.38	2.95	0.87	5.78	4.43	3.11	3.56
PC 338 K3	2.86	1.01	3.72	0.31	2.53	2.56	5.00	2.57
ARC-0pa11	2.13	0.76	2.22	2.61	2.62	2.15	1.38	1.98
SA Juweel	4.70	3.63	3.22	1.50	6.80	1.32	2.93	3.44
Mean	2.86	2.15	2.86	0.85	3.61	1.90	2.84	2.44

MAKSIPLAN 2012

Dryland trial 2011/12

Table 61 Percentage (%) unsound kernels in the edible grade at the different localities. 2011/12

Cultivar	Pot chef stroom	Lich ten burg	Schwei zer neke	Hoop stad	Set la gole	Vier fon tein	Vaal harts	Mean
Akwa	0.25	0.46	1.48	0.00	0.51	0.49	1.30	0.64
Anel	0.41	0.26	1.75	0.00	0.63	0.39	0.57	0.57
PC 357 K1	1.38	0.57	1.30	0.20	0.15	0.89	1.51	0.86
PC 369 K2	0.36	0.46	2.39	0.30	0.95	1.12	1.49	1.01
Inkanyezi	0.16	0.26	1.86	1.23	0.76	0.63	1.36	0.89
Kwartz	0.92	0.10	1.41	0.00	0.15	0.79	1.86	0.75
PC 371 K1	0.00	0.00	1.42	0.45	0.91	1.61	0.67	0.72
PC 369 K3	0.92	1.02	0.52	0.00	0.11	0.77	2.19	0.79
Tufa	0.63	0.00	5.11	0.49	0.31	0.13	0.44	1.02
PC 299 K1	0.67	0.41	0.51	0.31	1.22	0.76	0.36	0.60
ARC-01eic2	1.09	0.00	0.72	0.21	1.43	1.86	2.08	1.06
PC 338 K3	1.02	0.00	0.76	0.00	0.41	1.88	3.87	1.13
ARC-0pa11	0.56	0.15	1.46	1.05	0.87	1.39	0.66	0.88
SA Juweel	0.94	1.04	1.33	0.85	0.72	0.73	2.12	1.10
Mean	0.66	0.34	1.57	0.36	0.65	0.96	1.46	0.86

MAKSIPLAN 2012

Dryland trial 2011/12

Table 62 Percentage (%) defects in the edible grade at the different localities. 2011/12

Cultivar	Pot chef stroom	Lich ten burg	Schwei zer neke	Hoop stad	Set la gole	Vier fon tein	Vaal harts	Mean
Akwa	5.15	2.86	3.02	0.60	3.74	0.49	5.37	3.03
Anel	7.74	4.91	4.84	0.65	5.25	3.20	13.49	5.73
PC 357 K1	9.46	6.45	3.99	1.66	5.05	2.83	8.00	5.35
PC 369 K2	3.93	4.36	4.37	1.05	4.79	1.77	6.31	3.80
Inkanyezi	6.24	1.38	5.21	4.66	3.45	2.01	6.38	4.19
Kwartz	8.52	1.93	3.62	0.60	4.02	1.31	7.11	3.88
PC 371 K1	2.85	3.89	3.46	2.75	2.63	3.77	6.47	3.69
PC 369 K3	4.29	3.92	2.22	2.23	6.05	1.85	7.82	4.06
Tufa	4.93	0.88	1.33	0.88	3.19	1.08	2.90	2.17
PC 299 K1	4.54	5.90	2.40	1.94	2.65	2.66	2.50	3.23
ARC-01eic2	5.88	4.11	3.88	1.75	7.76	4.43	3.53	4.48
PC 338 K3	4.91	2.23	3.72	0.56	3.19	3.13	7.78	3.65
ARC-0pa11	4.27	1.37	2.47	3.01	4.52	2.96	4.80	3.34
SA Juweel	7.31	4.40	3.22	2.40	10.94	1.54	3.70	4.79
Mean	5.72	3.47	3.41	1.77	4.80	2.36	6.16	3.95

MAKSIPLAN 2012

Dryland trial 2011/12

Table 63 Percentage (%) choice grade at the different localities. 2011/12

Cultivar	Pot chef stroom	Lich ten burg	Schwei zer neke	Hoop stad	Set la gole	Vier fon tein	Vaal harts	Mean
Akwa	85.45	80.20	91.35	98.30	88.50	58.15	73.10	82.15
Anel	78.85	77.30	84.15	95.70	78.40	34.70	0.00	64.16
PC 357 K1	70.40	77.40	77.75	94.50	88.40	69.05	70.55	78.29
PC 369 K2	84.45	83.95	88.75	97.80	82.60	49.60	70.65	79.69
Inkanyezi	72.75	87.35	81.75	89.20	90.50	79.15	68.90	81.37
Kwartz	81.55	86.70	88.15	95.25	88.90	52.15	75.20	81.13
PC 371 K1	82.25	83.75	89.45	96.05	87.05	67.70	67.35	81.94
PC 369 K3	81.15	79.60	87.65	95.20	81.75	51.80	68.15	77.90
Tufa	71.40	66.85	84.55	85.80	79.75	36.50	57.25	68.87
PC 299 K1	74.35	83.40	88.10	93.85	90.35	75.45	76.40	83.13
ARC-01eic2	76.55	77.95	81.00	94.85	73.45	27.00	70.95	71.68
PC 338 K3	82.65	80.75	90.30	96.00	90.00	55.95	65.20	80.12
ARC-0pa11	86.05	91.05	94.00	94.60	84.50	67.15	69.80	83.88
SA Juweel	68.05	83.30	84.20	95.55	63.25	41.85	62.15	71.19
Mean	78.28	81.40	86.51	94.47	83.39	54.73	63.98	77.54

MAKSIPLAN 2012

Dryland trial 2011/12

Table 64 Percentage (%) standard grade at the different localities. 2011/12

Cultivar	Pot chef stroom	Lich ten burg	Schwei zer neke	Hoop stad	Set la gole	Vier fon tein	Vaal harts	Mean
Akwa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Anel	0.00	0.00	0.00	0.00	0.00	0.00	42.50	6.07
PC 357 K1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PC 369 K2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Inkanyezi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kwarts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PC 371 K1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PC 369 K3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tufa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PC 299 K1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARC-01eic2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PC 338 K3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARC-0pa11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SA Juweel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mean	0.00	0.00	0.00	0.00	0.00	0.00	3.04	0.43

MAKSIPLAN 2012

Dryland trial 2011/12

Table 65 Percentage (%) diverse grade at the different localities. 2011/12

Cultivar	Pot chef stroom	Lich ten burg	Schwei zer neke	Hoop stad	Set la gole	Vier fon tein	Vaal harts	Mean
Akwa	12.35	17.10	4.70	1.60	8.50	22.95	20.80	12.57
Anel	18.15	17.60	10.65	4.00	15.80	29.10	53.27	21.22
PC 357 K1	24.85	17.05	16.90	4.55	8.85	19.45	23.15	16.40
PC 369 K2	12.65	12.40	7.10	1.90	11.00	25.65	24.90	13.66
Inkanyezi	19.95	9.55	13.15	7.05	6.45	14.15	23.95	13.46
Kwartz	15.00	8.35	9.70	4.05	8.85	23.35	19.25	12.65
PC 371 K1	15.35	13.65	6.70	3.35	10.80	20.60	29.00	14.21
PC 369 K3	15.50	17.35	8.80	3.25	12.65	25.85	25.25	15.52
Tufa	21.95	23.55	12.60	5.00	14.75	36.95	33.35	21.16
PC 299 K1	20.65	13.65	9.25	3.85	6.40	15.45	20.55	12.83
ARC-01eic2	17.50	17.10	14.55	2.20	15.75	27.55	23.05	16.81
PC 338 K3	13.60	12.85	6.90	1.85	7.85	22.50	27.60	13.31
ARC-0pa11	11.40	7.45	3.30	3.85	10.95	17.70	27.25	11.70
SA Juweel	25.85	11.70	11.90	3.55	25.05	25.85	27.45	18.76
Mean	17.48	14.24	9.73	3.57	11.69	23.36	27.06	15.31

MAKSIPLAN 2012

Dryland trial 2011/12

Table 66 Percentage (%) crushing material at the different localities. 2011/12

Cultivar	Pot chef stroom	Lich ten burg	Schwei zer neke	Hoop stad	Set la gole	Vier fon tein	Vaal harts	Mean
Akwa	2.20	2.70	3.95	10.00	3.00	18.90	6.10	6.69
Anel	3.00	5.10	5.20	0.30	5.80	36.20	4.24	8.55
PC 357 K1	4.75	5.55	5.35	0.95	2.75	11.50	6.30	5.31
PC 369 K2	2.90	3.65	4.15	0.30	6.40	24.75	4.45	6.66
Inkanyezi	7.30	3.10	5.10	3.75	3.05	6.70	7.15	5.16
Kwartz	3.45	4.95	2.15	0.70	2.25	24.50	5.55	6.22
PC 371 K1	2.40	2.60	3.85	0.60	2.15	11.70	3.65	3.85
PC 369 K3	3.35	3.05	3.55	1.55	5.60	22.35	6.60	6.58
Tufa	6.65	9.60	2.85	9.20	5.50	26.55	9.40	9.96
PC 299 K1	5.00	2.95	2.65	2.30	3.25	9.10	3.05	4.04
ARC-01eic2	5.95	4.95	4.45	2.95	10.80	45.45	6.00	11.51
PC 338 K3	3.75	6.40	2.80	2.15	2.15	21.55	7.20	6.57
ARC-0pa11	2.55	1.50	2.70	1.55	4.55	15.15	2.95	4.42
SA Juweel	6.10	5.00	3.90	0.90	11.70	32.30	10.40	10.04
Mean	4.24	4.36	3.76	2.66	4.92	21.91	5.93	6.83

MAKSIPLAN 2012

Dryland trial 2011/12

Table 67 Percentage (%) 1-kernel pods at the different localities. 2011/12

Cultivar	Pot chef stroom	Lich ten burg	Schwei zer neke	Hoop stad	Set la gole	Vier fon tein	Vaal harts	Mean
Akwa	19.54	25.74	19.10	10.34	18.28	19.20	24.11	19.47
Anel	23.23	34.51	14.44	18.39	25.81	22.61	37.19	25.17
PC 357 K1	11.11	32.61	2.94	13.89	24.69	19.10	23.71	18.29
PC 369 K2	60.78	35.11	20.00	8.60	12.12	5.66	28.57	24.41
Inkanyezi	28.00	37.98	25.00	23.47	30.91	24.14	30.08	28.51
Kwartz	35.19	20.41	9.46	7.32	23.86	8.54	29.06	19.12
PC 371 K1	26.73	27.55	10.59	26.32	24.49	20.39	16.52	21.80
PC 369 K3	35.64	14.29	12.24	8.43	14.44	2.00	30.89	16.85
Tufa	55.15	42.76	13.64	9.65	39.34	20.55	41.89	31.85
PC 299 K1	25.00	27.43	13.59	5.56	15.15	15.18	32.50	19.20
ARC-01eic2	39.32	25.62	13.33	12.73	24.24	11.89	25.19	21.76
PC 338 K3	35.00	25.74	18.89	22.99	20.65	9.43	30.77	23.35
ARC-0pa11	31.00	28.57	8.60	17.72	15.48	11.67	30.65	20.53
SA Juweel	47.86	35.04	12.36	21.18	24.75	17.89	28.13	26.74
Mean	33.83	29.53	13.87	14.76	22.44	14.87	29.23	22.65

MAKSIPLAN 2012

Dryland trial 2011/12

Table 68 Percentage (%) 2-kernel pods at the different localities. 2011/12

Cultivar	Pot chef stroom	Lich ten burg	Schwei zer neke	Hoop stad	Set la gole	Vier fon tein	Vaal harts	Mean
Akwa	79.31	74.26	80.90	89.66	81.72	80.80	75.89	80.36
Anel	75.76	65.49	85.56	81.61	74.19	77.39	62.81	74.69
PC 357 K1	80.56	65.22	97.06	83.33	75.31	80.90	76.29	79.81
PC 369 K2	39.22	64.89	80.00	91.40	86.87	94.34	71.43	75.45
Inkanyezi	72.00	62.02	75.00	76.53	69.09	75.86	69.92	71.49
Kwartz	64.81	79.59	90.54	92.68	76.14	91.46	70.94	80.88
PC 371 K1	73.27	72.45	88.24	72.63	75.51	79.61	83.48	77.88
PC 369 K3	63.37	84.69	86.73	91.57	85.56	98.00	69.11	82.72
Tufa	44.85	57.24	86.36	90.35	60.66	79.45	58.11	68.15
PC 299 K1	75.00	72.57	86.41	94.44	84.85	84.82	67.50	80.80
PC 327 K31	59.83	74.38	86.67	87.27	75.76	88.11	74.81	78.12
PC 338 K3	65.00	74.26	81.11	77.01	79.35	90.57	69.23	76.65
PC 366 K9	69.00	71.43	91.40	81.01	84.52	88.33	69.35	79.29
SA Juweel	52.14	64.96	87.64	78.82	75.25	81.30	71.88	73.14
Mean	65.29	70.25	85.97	84.88	77.48	85.07	70.77	77.10

MAKSIPLAN 2012

Dryland trial 2011/12

Table 69 Percentage (%) 3-kernel pods at the different localities. 2011/12

Cultivar	Pot chef stroom	Lich ten burg	Schwei zer neke	Hoop stad	Set la gole	Vier fon tein	Vaal harts	Mean
Akwa	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.16
Anel	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.14
PC 357 K1	8.33	2.17	0.00	2.78	0.00	0.00	0.00	1.90
PC 369 K2	0.00	0.00	0.00	0.00	1.01	0.00	0.00	0.14
Inkanyezi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kwarts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PC 371 K1	0.00	0.00	1.18	1.05	0.00	0.00	0.00	0.32
PC 369 K3	0.99	1.02	1.02	0.00	0.00	0.00	0.00	0.43
Tufa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PC 299 K1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARC-01eic2	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.12
PC 338 K3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARC-0pa11	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.18
SA Juweel	0.00	0.00	0.00	0.00	0.00	0.81	0.00	0.12
Mean	0.88	0.23	0.16	0.36	0.07	0.06	0.00	0.25

MAKSIPLAN 2012

Dryland trial 2011/12

Table 70 Percentage (%) round kernels at the different localities, 2011/12

Cultivar	Pot chef stroom	Lich ten burg	Schwei zer neke	Hoop stad	Set la gole	Vier fon tein	Vaal harts	Mean
Akwa	95.20	92.63	90.72	92.69	85.96	95.62	97.30	92.87
Anel	95.61	94.80	85.00	109.90	87.15	92.93	95.88	94.47
PC 357 K1	84.85	91.12	67.96	68.83	73.16	76.39	81.98	77.76
PC 369 K2	93.85	87.74	85.67	89.70	84.57	89.37	96.87	89.68
Inkanyezi	98.40	97.57	96.12	97.22	97.56	96.54	94.48	96.84
Kwarts	97.50	93.50	86.27	82.67	86.13	92.97	96.36	90.77
PC 371 K1	96.53	95.65	93.82	91.20	90.06	93.45	97.58	94.04
PC 369 K3	96.82	94.66	92.29	91.67	89.73	91.97	97.13	93.47
Tufa	97.61	97.20	90.34	96.73	96.56	97.38	98.30	96.30
PC 299 K1	95.70	98.45	90.12	89.90	90.15	95.06	98.20	93.94
ARC-01eic2	97.57	98.11	95.54	95.93	93.47	92.26	97.57	95.78
PC 338 K3	97.34	96.36	93.60	93.51	94.59	95.42	96.31	95.31
ARC-0pa11	96.29	94.80	90.13	86.35	89.19	93.15	97.51	92.49
SA Juweel	96.78	97.17	90.09	89.44	92.80	93.53	97.17	93.86
Mean	95.72	94.98	89.12	91.12	89.36	92.58	95.90	92.68

MAKSIPLAN 2012

Dryland trial 2011/12

Table 71 Grading tables for dryland trials 2010/11

Trial nr : 5 Locality: Potchefstroom

Season: 11_12 Plot size: 16.2 mS2T

CULT	Pod		Kernel		Shel	Total	Kernels above				Pan	Total	UBS	Un-	Choice	Stan-	Sundry	Chrui	Splits		Kernel	Round	
	mass	g	mass	g			9	8.25	7.5	6.75									6	defec-			sound
1 Akwa	5830	381	76.1	4439	9.6	43.3	75.6	89.5	2.0	0.8	5.2	3.2	0.3	85.5	0.0	12.4	2.20	7.05	19.54	79.31	1.15	505.65	95.20
2 Ane1	6157	367	73.4	4518	3.7	25.6	63.4	85.5	7.3	1.4	7.7	2.0	0.4	78.9	0.0	18.2	3.00	5.35	23.23	75.76	1.01	499.71	95.61
3 PC 357 K1	6280	366	73.3	4601	4.5	31.2	62.9	78.0	5.1	1.4	9.5	4.7	1.4	70.4	0.0	24.9	4.75	14.35	11.11	80.56	8.33	525.25	84.85
4 PC 369 K2	6427	378	75.5	4853	6.3	30.6	67.9	87.7	5.1	1.8	3.9	1.8	0.4	84.5	0.0	12.7	2.90	5.25	60.78	39.22	0.00	489.94	93.85
5 Inkanyezi	5853	337	67.3	3940	1.3	14.3	47.6	76.9	12.7	3.7	6.2	3.0	0.2	72.8	0.0	20.0	7.30	4.55	28.00	72.00	0.00	408.78	98.40
6 Kwarts	5577	383	76.6	4273	4.9	30.2	68.3	89.0	3.7	1.2	8.5	3.5	0.9	81.6	0.0	15.0	3.45	4.75	35.19	64.81	0.00	494.44	97.50
7 PC 371 K1	5817	381	76.1	4426	4.1	35.5	70.2	84.4	3.9	1.6	2.8	0.6	0.0	82.3	0.0	15.4	2.40	10.05	26.73	73.27	0.00	487.57	96.53
8 PC 369 K3	5853	365	72.9	4267	4.5	28.4	67.9	85.1	6.3	1.6	4.3	1.8	0.9	81.2	0.0	15.5	3.35	6.40	35.64	63.37	0.99	491.91	96.82
9 Tufo	6200	372	74.4	4612	0.0	3.7	35.7	74.4	15.0	3.3	4.9	3.0	0.6	71.4	0.0	22.0	6.65	5.50	55.15	44.85	0.00	444.18	97.61
10 PC 299 K1	5757	361	72.3	4160	1.7	14.7	47.9	77.1	9.6	2.3	4.5	2.3	0.7	74.4	0.0	20.7	5.00	10.00	25.00	75.00	0.00	441.55	95.70
11 ARC-01eic2	4743	360	72.0	3416	1.4	23.9	54.5	80.7	9.4	2.8	5.9	4.4	1.1	76.6	0.0	17.5	5.95	5.75	39.32	59.83	0.85	434.77	97.57
12 PC 338 K3	5510	354	70.7	3898	5.6	31.0	65.2	86.4	5.2	1.8	4.9	2.9	1.0	82.7	0.0	13.6	3.75	6.00	35.00	65.00	0.00	459.31	97.34
13 ARC-0pa11	6483	381	76.3	4944	11.4	44.1	79.2	89.7	2.9	0.9	4.3	2.1	0.6	86.0	0.0	11.4	2.55	5.80	31.00	69.00	0.00	512.57	96.29
14 SA Juweel	5020	352	70.3	3531	4.5	19.7	48.6	73.7	10.0	3.4	7.3	4.7	0.9	68.1	0.0	25.9	6.10	11.20	47.86	52.14	0.00	473.63	96.78

Trial nr : 8 Locality: Lichtenburg

Season: 11_12 Plot size: 16.2 mS2T

CULT	Pod		Kernel		Shel	Total	Kernels above				Pan	Total	UBS	Un-	Choice	Stan-	Sundry	Chrui	Splits		Kernel	Round	
	mass	g	mass	g			9	8.25	7.5	6.75									6	defec-			sound
1 Akwa	4026	372	74.4	2997	2.1	26.3	69.1	82.6	5.0	1.4	2.9	0.9	0.5	80.2	0.0	17.1	2.70	10.45	25.74	74.26	0.00	467.99	92.63
2 Ane1	4188	369	73.8	3093	2.3	25.6	62.0	81.1	8.0	3.5	4.9	4.6	0.3	77.3	0.0	17.6	5.10	6.60	34.51	65.49	0.00	468.79	94.80
3 PC 357 K1	4623	366	73.3	3387	2.2	25.3	63.7	82.3	6.4	1.8	6.5	4.0	0.6	77.4	0.0	17.0	5.55	7.25	32.61	65.22	2.17	541.12	91.12
4 PC 369 K2	4634	380	76.0	3522	1.5	39.3	73.2	87.6	3.5	1.6	4.4	1.6	0.5	84.0	0.0	12.4	3.65	6.30	35.11	64.89	0.00	550.94	87.74
5 Inkanyezi	4170	367	73.4	3062	2.0	19.3	63.6	88.3	5.5	1.5	1.4	0.7	0.3	87.4	0.0	9.6	3.10	3.75	37.98	62.02	0.00	428.64	97.57
6 Kwarts	4370	368	73.7	3219	4.9	34.0	68.6	87.8	5.1	3.0	1.9	1.9	0.1	86.7	0.0	8.4	4.95	2.80	20.41	79.59	0.00	475.88	93.50
7 PC 371 K1	4808	382	76.4	3673	2.6	41.3	79.3	87.3	4.3	1.8	3.9	0.9	0.0	83.8	0.0	13.7	2.60	6.15	27.55	72.45	0.00	505.80	95.65
8 PC 369 K3	4379	372	74.3	3256	2.4	30.7	71.1	82.8	3.9	1.7	3.9	1.5	1.0	79.6	0.0	17.4	3.05	11.50	14.29	84.69	1.02	491.10	94.66
9 Tufo	4498	377	75.3	3387	0.0	1.0	21.1	67.5	20.9	4.4	0.9	0.7	0.0	66.9	0.0	23.6	9.60	2.30	42.76	57.24	0.00	418.94	97.20
10 PC 299 K1	4972	363	72.6	3610	1.7	20.4	65.1	87.9	6.2	0.9	5.9	4.6	0.4	83.4	0.0	13.7	2.95	4.05	27.43	72.57	0.00	453.09	98.45
11 ARC-01eic2	4379	357	71.4	3127	1.2	20.8	58.2	80.8	7.1	3.3	4.1	3.4	0.0	78.0	0.0	17.1	4.95	8.40	25.62	74.38	0.00	436.49	98.11
12 PC 338 K3	4515	351	70.2	3169	0.3	32.7	60.3	82.4	7.4	4.1	2.2	1.0	0.0	80.8	0.0	12.9	6.40	4.35	25.74	74.26	0.00	499.09	96.36
13 ARC-0pa11	4787	382	76.5	3660	3.6	52.8	82.0	92.2	2.2	0.6	1.4	0.8	0.2	91.0	0.0	7.5	1.50	4.40	28.57	71.43	0.00	532.66	94.80
14 SA Juweel	4200	366	73.2	3075	0.4	18.2	62.4	87.1	5.3	3.2	4.4	3.6	1.0	83.3	0.0	11.7	5.00	4.15	35.04	64.96	0.00	493.20	97.17

Trial nr : 12

Locality: Setlagole

Plot size: 16.2 mS2T

Season: 11_12

CULT	Pod			Kernel			Shell			Total	Kernels above			Pan	Total			UBS	Un- sound	Choice mark	Standa	Sundry market	Chrusing	Splits	1			2			3			Kernel size	Round kernels
	mass	ling	kernel	mass	ling	kernel	mass	ling	kernel		%	%	%		%	%	%								%	%	%	%	%	%	%	%	%		
1 Akwa	2560	365	73.0	1868	7.1	43.5	77.1	92.0	5.0	1.1	3.7	3.6	0.5	88.5	0.0	8.5	3.00	0.55	18.28	81.72	0.00	516.85	85.96												
2 Anei	3193	359	71.9	2295	6.4	26.6	57.7	82.9	8.5	2.6	5.2	3.3	0.6	78.4	0.0	15.8	5.80	3.90	25.81	74.19	0.00	519.44	87.15												
3 PC 357 K1	2597	359	71.7	1863	7.8	39.9	76.0	92.5	3.9	0.6	5.0	4.2	0.2	88.4	0.0	8.9	2.75	1.70	24.69	75.31	0.00	591.05	73.16												
4 PC 369 K2	3120	371	74.3	2318	7.9	31.3	66.5	86.1	7.6	2.7	4.8	4.3	0.9	82.6	0.0	11.0	6.40	1.40	12.12	86.87	1.01	531.17	84.57												
5 Inkanyezi	3333	359	71.8	2393	2.7	31.8	71.2	92.9	3.8	0.5	3.4	2.6	0.8	90.5	0.0	6.5	3.05	1.90	30.91	69.09	0.00	452.93	97.56												
6 Kwarts	2940	330	66.0	1940	8.0	33.6	72.5	92.4	5.5	1.1	4.0	3.2	0.2	88.9	0.0	8.9	2.25	0.35	23.86	76.14	0.00	534.10	86.13												
7 PC 371 K1	3317	370	74.0	2453	7.8	37.8	74.7	89.4	4.6	0.6	2.6	2.6	0.9	87.0	0.0	10.8	2.15	5.00	24.49	75.51	0.00	522.81	90.06												
8 PC 369 K3	2947	368	73.6	2169	3.5	31.6	68.2	86.8	7.3	2.1	6.0	3.5	0.1	81.8	0.0	12.7	5.60	1.05	14.44	85.56	0.00	524.47	89.73												
9 TuFa	2890	370	73.9	2137	0.0	1.9	28.2	81.9	13.9	1.0	3.2	3.2	0.3	79.8	0.0	14.8	5.50	0.00	39.34	60.66	0.00	469.05	96.56												
10 PC 299 K1	3610	381	76.2	2752	2.9	27.3	71.7	92.5	4.1	0.8	2.6	2.4	1.2	90.4	0.0	6.4	3.25	1.55	15.15	84.85	0.00	466.92	90.15												
11 ARC-01etlc2	3147	341	68.3	2149	4.1	26.3	59.8	79.6	10.6	6.7	7.8	5.8	1.4	73.5	0.0	15.8	10.80	0.45	24.24	75.76	0.00	472.11	93.47												
12 PC 338 K3	3200	353	70.5	2257	5.6	34.8	76.6	92.6	5.0	0.7	3.2	2.5	0.4	90.0	0.0	7.9	2.15	1.15	20.65	79.35	0.00	500.81	94.59												
13 ARC-OpalI	2840	356	71.2	2023	8.5	42.1	73.8	87.2	4.5	2.0	4.5	2.6	0.9	84.5	0.0	11.0	4.55	5.40	15.48	84.52	0.00	523.42	89.19												
14 SA Juweel	2363	328	65.6	1550	4.8	20.4	43.2	71.3	18.5	5.8	10.9	6.8	0.7	63.3	0.0	25.1	11.70	0.55	24.75	75.25	0.00	539.77	92.80												

Trial nr : 13

Locality: Vierfontein

Plot size: 16.2 mS2T

Season: 11_12

CULT	Pod			Kernel			Shell			Total	Kernels above			Pan	Total			UBS	Un- sound	Choice mark	Standa	Sundry market	Chrusing	Splits	1			2			3			Kernel size	Round kernels
	mass	ling	kernel	mass	ling	kernel	mass	ling	kernel		%	%	%		%	%	%								%	%	%	%	%	%	%	%	%		
1 Akwa	2453	318	63.5	1559	0.0	8.1	28.2	58.2	22.8	14.4	0.5	0.5	0.5	58.2	0.0	23.0	18.90	0.30	19.20	80.80	0.00	391.58	95.62												
2 Anei	2447	298	59.7	1460	0.0	4.0	13.1	36.5	26.7	29.2	3.2	0.4	0.4	34.7	0.0	29.1	36.20	0.80	22.61	77.39	0.00	396.74	92.93												
3 PC 357 K1	2393	318	63.5	1521	1.4	11.3	39.3	70.7	18.4	6.9	2.8	2.6	0.9	69.1	0.0	19.5	11.50	0.70	19.10	80.90	0.00	463.61	76.39												
4 PC 369 K2	2127	290	58.1	1235	0.6	5.5	21.9	50.3	24.7	15.7	1.8	1.8	1.1	49.6	0.0	25.7	24.75	0.75	5.66	94.34	0.00	396.06	89.37												
5 Inkanyezi	2827	355	71.0	2006	1.3	14.0	50.3	80.1	10.4	4.8	2.0	2.0	0.6	79.2	0.0	14.2	6.70	4.05	24.14	75.86	0.00	395.56	96.54												
6 Kwarts	2687	303	60.5	1627	0.0	4.6	27.6	52.7	23.1	19.0	1.3	1.3	0.8	52.2	0.0	23.4	24.50	0.35	8.54	91.46	0.00	411.72	92.97												
7 PC 371 K1	2460	323	64.7	1591	1.6	12.2	40.3	70.2	19.8	7.4	3.8	3.0	1.6	67.7	0.0	20.6	11.70	0.35	20.39	79.61	0.00	417.56	93.45												
8 PC 369 K3	2303	316	63.1	1453	0.0	4.5	22.5	52.8	25.3	19.0	1.9	1.5	0.8	51.8	0.0	25.9	22.35	0.15	2.00	98.00	0.00	385.04	91.97												
9 TuFa	2450	344	68.8	1685	0.0	0.2	6.2	36.7	37.3	16.8	1.1	0.9	0.1	36.5	0.0	37.0	26.55	0.15	20.55	79.45	0.00	383.77	97.38												
10 PC 299 K1	2204	342	68.3	1505	0.9	9.8	45.0	76.9	13.9	4.9	2.7	2.2	0.8	75.5	0.0	15.5	9.10	1.40	15.18	84.82	0.00	379.75	95.06												
11 ARC-01etlc2	1793	265	53.1	952	0.0	1.6	9.6	27.9	20.8	36.9	4.4	4.4	1.9	27.0	0.0	27.6	45.45	0.45	11.89	88.11	0.00	359.35	92.26												
12 PC 338 K3	1857	295	59.0	1096	0.6	8.3	28.5	57.8	27.5	13.9	3.1	2.6	1.9	56.0	0.0	22.5	21.55	1.20	9.43	90.57	0.00	406.69	95.42												
13 ARC-OpalI	2660	319	63.7	1694	0.8	9.6	40.0	69.1	15.8	10.8	3.0	2.1	1.4	67.2	0.0	17.7	15.15	1.15	11.67	88.33	0.00	411.01	93.15												
14 SA Juweel	1680	271	54.1	909	0.7	3.7	13.5	42.3	25.8	25.6	1.5	1.3	0.7	41.8	0.0	25.9	32.30	0.35	17.89	81.30	0.81	420.40	93.53												

Trial nr : 18

Locality: Vaalharts

Plot size: 6 mS2T

Season: 11_12

CULT	Pod	Kernel	Shell	Total	Kernels above						Pan	Total	UBS	Un-	Choice	Stan-	Sundry	Chru	Splits	1		2		3		Kernel	Round							
					9	8.25	7.5	6.75	6	%										defec-	sound	mark	dard	market	%			shing	%	kernel	%	kernel	%	kernel
mass	g	500g	ling	kernel	9	%	8.25	%	7.5	%	6.75	%	6	%	defec-	%	sound	%	mark	%	dard	market	%	shing	%	kernel	%	kernel	%	kernel	%	size	kernels	%
1 Akwa	1573	339	67.9	1068	1.9	15.2	53.0	76.9	6.7	3.1	5.4	2.9	1.3	73.1	0.0	20.8	6.10	11.60	24.11	75.89	0.00	415.68	97.30											
2 Ane1	1823	354	70.7	1290	0.3	4.8	32.1	54.8	7.0	2.6	13.5	1.4	0.6	0.0	42.5	53.3	4.24	34.62	37.19	62.81	0.00	410.11	95.88											
3 PC 357 K1	1547	340	68.0	1052	1.1	15.4	52.4	76.4	6.0	3.2	8.0	5.2	1.5	70.6	0.0	23.2	6.30	13.35	23.71	76.29	0.00	458.86	81.98											
4 PC 369 K2	1400	350	70.0	980	1.1	19.5	51.2	75.8	6.7	1.6	6.3	2.4	1.5	70.7	0.0	24.9	4.45	14.55	28.57	71.43	0.00	431.91	96.87											
5 Inkanyezi	2263	349	69.8	1580	0.4	15.5	49.1	73.4	9.5	3.4	6.4	3.9	1.4	68.9	0.0	24.0	7.15	12.50	30.08	69.92	0.00	426.45	94.48											
6 KwarEs	2120	350	70.0	1484	0.3	18.1	57.7	80.6	6.3	2.2	7.1	3.2	1.9	75.2	0.0	19.3	5.55	9.35	29.06	70.94	0.00	451.54	96.36											
7 PC 371 K1	1393	283	56.5	788	0.7	9.4	44.4	72.9	7.9	2.1	6.5	2.3	0.7	67.4	0.0	29.0	3.65	16.55	16.52	83.48	0.00	391.67	97.58											
8 PC 369 K3	1353	346	69.2	937	0.4	17.0	48.1	74.1	9.5	3.7	7.8	3.4	2.2	68.2	0.0	25.3	6.60	11.70	30.89	69.11	0.00	424.36	97.13											
9 Tufa	2050	371	74.2	1522	0.0	2.4	19.5	59.3	25.3	5.7	2.9	1.3	0.4	57.3	0.0	33.3	9.40	6.45	41.89	58.11	0.00	403.06	98.30											
10 PC 299 K1	1823	338	67.5	1231	1.2	11.0	48.2	78.1	6.5	1.8	2.5	1.3	0.4	76.4	0.0	20.5	3.05	13.25	32.50	67.50	0.00	401.54	98.20											
11 ARC-01e1c2	2113	342	68.4	1446	1.6	12.6	42.1	72.3	12.6	3.4	3.5	3.1	2.1	71.0	0.0	23.1	6.00	10.05	25.19	74.81	0.00	390.81	97.57											
12 PC 338 K3	1697	317	63.4	1076	2.0	17.0	51.2	70.2	5.7	2.9	7.8	5.0	3.9	65.2	0.0	27.6	7.20	19.35	30.77	69.23	0.00	432.00	96.31											
13 ARC-0pa1I	1817	359	71.9	1305	1.5	17.6	49.9	73.7	5.5	2.1	4.8	1.4	0.7	69.8	0.0	27.3	2.95	18.25	30.65	69.35	0.00	407.18	97.51											
14 SA Juweel	1007	333	66.5	670	0.3	4.3	29.7	64.0	19.2	4.6	3.7	2.9	2.1	62.2	0.0	27.5	10.40	8.25	28.13	71.88	0.00	402.20	97.17											

Table 90 Yield reliability at different yield targets, 2006–2012 National Cultivar Evaluation trials

TIVAR	YIELD TARGETS (ton/ha)										MEAN	B-COEFF	D-PARAM	
	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5				6.0
Akwa	0.00*	0.31	0.72	1.14	1.55	1.97	2.38	2.80	3.22	3.63	4.05	2.66	0.8314	0.9382
Anel	0.00*	0.26	0.86*	1.46*	2.06*	2.66*	3.26*	3.86*	4.45*	5.05*	5.65*	2.97	1.1971	0.7523
Kwarts	0.00*	0.10	0.65	1.19	1.74	2.28	2.83	3.37	3.92	4.46	5.00	2.83	1.0892	0.9779
Tufa	0.00*	0.29	0.79	1.29	1.79	2.30	2.80	3.30	3.80	4.30	4.80	2.77	1.0021	0.7942
PC 299 K1	0.00*	0.29	0.80	1.30	1.81	2.32	2.82	3.33	3.84	4.34	4.85	2.85	1.0136	0.8839
ARC-01eic2	0.00*	0.40*	0.86*	1.33	1.80	2.27	2.73	3.20	3.67	4.13	4.60	2.73	0.9339	0.7158
PC 338 K3	0.00*	0.26	0.77	1.29	1.80	2.31	2.82	3.33	3.84	4.35	4.86	2.76	1.0228	0.7784
ARC-Opall	0.00*	0.39*	0.90*	1.41*	1.92*	2.43*	2.94*	3.46*	3.97	4.48	4.99	2.92	1.0234	0.8314
SA Juweel	0.00*	0.43*	0.87*	1.31	1.76	2.20	2.64	3.09	3.53	3.97	4.42	2.82	0.8864	0.8756

Table 91 Regression line coordinates at different yield targets, 2006–2012 National Cultivar Evaluation trial

TIVAR	YIELD TARGETS (ton/ha)										MEAN	B-COEFF	D-PARAM	
	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5				6.0
Akwa	1.16	1.57	1.99	2.40	2.82	3.24	3.65	4.07	4.48	4.90	5.31	2.66	0.8314	0.326
Anel	0.80	1.40	2.00	2.60	3.19	3.79	4.39	4.99	5.59	6.19	6.79	2.97	1.1971	-0.396
Kwarts	0.85	1.40	1.94	2.49	3.03	3.58	4.12	4.66	5.21	5.75	6.30	2.83	1.0892	-0.237
Tufa	0.96	1.46	1.96	2.46	2.96	3.46	3.96	4.46	4.96	5.47	5.97	2.77	1.0021	-0.046
PC 299 K1	1.01	1.52	2.03	2.53	3.04	3.55	4.05	4.56	5.07	5.58	6.08	2.85	1.0136	0.000
ARC-01eic2	1.04	1.50	1.97	2.44	2.91	3.37	3.84	4.31	4.77	5.24	5.71	2.73	0.9339	0.104
PC 338 K3	0.91	1.42	1.93	2.44	2.95	3.46	3.97	4.49	5.00	5.51	6.02	2.76	1.0228	-0.118
ARC-Opall	1.07	1.58	2.09	2.60	3.11	3.63	4.14	4.65	5.16	5.67	6.18	2.92	1.0234	0.044
SA Juweel	1.21	1.65	2.10	2.54	2.98	3.43	3.87	4.31	4.76	5.20	5.64	2.82	0.8864	0.323