

# Irrigated/Sprayed Trials

2011/12

Brits

Potchefstroom

Burhansdrif

Lichtenburg

Naboomspruit

Douglas

Vaalharts

Table 6 The pod yield (kg/ha) of each cultivar at the different localities. 2011/12

Cultivar	Brits	Pot		Burh		Lich		Naboom		Doug		Vaal		Mean
		chef	stroom	mans	drif	ten	burg	spruit	las	harts	harts			
Akwa	5160.49	3419.75	3559.67	6966.05	5159.54	2958.02	3927.77	4450.18						
Ane1	4862.14	2911.52	3997.94	6955.96	4811.96	3130.86	5344.44	4573.55						
PC 357 K1	6351.85	3438.27	3876.54	7211.52	5321.93	2938.27	4550.00	4812.63						
PC 369 K2	4584.36	3185.18	4232.51	7109.05	4591.77	2953.08	3828.33	4354.90						
Inkanyezi	4491.76	2781.89	3833.33	6133.74	2270.65	3249.38	4172.22	3847.57						
Kwarts	4786.00	2615.22	3950.61	6753.08	4951.56	2758.02	3816.66	4233.02						
PC 371 K1	5351.85	3039.09	3915.63	6984.56	5774.92	3740.74	4150.00	4708.11						
PC 369 K3	6481.48	2818.93	4312.75	7306.79	5401.71	3787.65	5205.55	5044.98						
Tufa	6452.67	3370.37	4413.58	7073.66	3313.39	3851.85	5138.88	4802.06						
PC 299 K1	6137.86	2497.94	4279.83	6438.68	3455.84	2424.69	5330.64	4366.50						
ARC-01eic2	6026.74	2172.83	3804.52	6209.67	4307.69	2920.98	4344.44	4255.27						
PC 338 K3	5362.14	1823.04	4179.01	6639.71	2529.91	3365.43	4216.66	4016.56						
ARC-0pa11	5722.22	3654.32	3993.01	7219.95	5225.07	2979.23	4816.66	4801.49						
SA Juweel	4855.96	3279.83	4092.59	6275.72	4165.24	1985.18	4422.22	4153.82						
Mean	5473.39	2929.16	4031.54	6805.58	4377.23	3074.53	4518.89	4458.62						
LSD (5%)	1911	907	559	1287	1246	828	1287							
CV	21	18	8	11	17	16	17							

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Table 7 The kernel yield (kg/ha) of each cultivar at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Burh mans drif	Lich ten burg	Naboom spruit	Doug las	Vaal harts	Mean
Akwa	3596.86	2644.15	2139.36	5086.61	4114.22	2252.83	2816.21	3235.75
Ane1	3075.79	2164.42	3016.84	5593.98	3805.30	2415.77	3889.68	3423.11
PC 357 K1	3940.69	2494.12	2810.49	5427.39	4025.51	2235.43	3201.38	3447.86
PC 369 K2	3229.22	2340.47	3157.45	5540.79	3309.75	2304.58	2816.88	3242.73
Inkanyezi	2463.28	1829.92	2871.93	4459.23	1569.93	2447.43	2517.51	2594.18
Kwartz	3334.89	1835.88	3004.83	5280.91	3784.97	2147.39	2617.47	3143.76
PC 371 K1	3786.97	2323.08	2922.63	5607.21	3500.76	2884.86	3017.88	3434.77
PC 369 K3	4610.92	2066.83	3228.53	5769.44	3554.32	2907.40	3626.19	3680.52
Tufa	4025.17	2429.36	3336.66	5442.47	2632.15	2808.00	3775.02	3492.69
PC 299 K1	4408.21	1692.10	3195.32	5147.08	2280.85	1856.34	4018.23	3228.30
ARC-01eic2	4251.26	1568.35	2606.10	4901.91	2492.43	2288.88	3135.82	3034.96
PC 338 K3	3546.51	1273.94	2464.78	4997.04	1930.32	2508.59	2919.62	2805.83
ARC-0pa11	3857.92	2790.44	2963.61	5738.42	3664.86	2223.10	3463.18	3528.79
SA Juweel	3152.49	2167.31	2964.67	4787.11	2978.14	1481.34	3255.64	2969.53
Mean	3662.87	2115.74	2905.94	5269.97	3117.39	2340.14	3219.34	3233.06
LSD (5%)	1248	658	408	997	926	633	920	
CV	20	19	8	11	18	16	17	

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Table 8 Shelling percentage of each cultivars at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Burh mans drif	Lich ten burg	Naboom spruit	Doug las	Vaal harts	Mean
Akwa	69.70	77.32	60.10	73.02	79.74	76.16	71.70	72.53
Anel	63.26	74.34	75.46	80.42	79.08	77.16	72.78	74.64
PC 357 K1	62.04	72.54	72.50	75.26	75.64	76.08	70.36	72.06
PC 369 K2	70.44	73.48	74.60	77.94	72.08	78.04	73.58	74.31
Inkanyezi	54.84	65.78	74.92	72.70	69.14	75.32	60.34	67.58
Kwarts	69.68	70.20	76.06	78.20	76.44	77.86	68.58	73.86
PC 371 K1	70.76	76.44	74.64	80.28	60.62	77.12	72.72	73.23
PC 369 K3	71.14	73.32	74.86	78.96	65.80	76.76	69.66	72.93
Tufa	62.38	72.08	75.60	76.94	79.44	72.90	73.46	73.26
PC 299 K1	71.82	67.74	74.66	79.94	66.00	76.56	75.38	73.16
ARC-01eic2	70.54	72.18	68.50	78.94	57.86	78.36	72.18	71.22
PC 338 K3	66.14	69.88	58.98	75.26	76.30	74.54	69.24	70.05
ARC-0pa11	67.42	76.36	74.22	79.48	70.14	74.62	71.90	73.45
SA Juweel	64.92	66.08	72.44	76.28	71.50	74.62	73.62	71.35
Mean	66.79	71.98	71.97	77.40	71.41	76.15	71.11	72.40

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Table 9 Percentage (%) kernels on the 9.0 mm screen at the different localities 2011/12

Cultivar	Brits	Pot chef stroom	Burh mans drif	Lich ten burg	Naboom spruit	Doug las	Vaal harts	Mean
Akwa	7.85	7.75	1.00	12.15	14.10	7.50	3.50	7.69
Ane1	7.30	5.05	9.85	3.85	1.90	1.65	9.50	5.59
PC 357 K1	6.25	6.00	7.70	14.55	5.55	4.05	5.50	7.09
PC 369 K2	5.65	5.60	2.90	5.30	26.10	3.10	1.25	7.13
Inkanyezi	2.30	2.20	2.55	8.05	2.25	1.95	1.80	3.01
Kwarts	6.80	6.90	2.30	1.90	0.60	2.75	0.00	3.04
PC 371 K1	3.70	3.05	3.70	11.40	0.90	7.40	0.30	4.35
PC 369 K3	5.25	3.40	6.20	14.25	15.90	4.65	3.45	7.59
Tufa	1.35	0.00	0.00	0.00	0.25	0.00	0.00	0.23
PC 299 K1	4.30	2.10	3.50	0.35	9.45	2.25	0.20	3.16
ARC-01eic2	2.85	0.65	2.75	4.50	11.90	0.30	4.15	3.87
PC 338 K3	7.85	7.35	2.35	18.40	4.65	9.85	0.90	7.34
ARC-0pa11	8.45	4.95	7.30	5.40	18.10	4.15	1.35	7.10
SA Juweel	13.30	0.75	12.05	17.95	23.05	3.75	1.35	10.31
Mean	5.94	3.98	4.58	8.43	9.62	3.81	2.38	5.54

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Table 10 Percentage (%) kernels on the 8.25 mm screen at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Burh mans drif	Lich ten burg	Naboom spruit	Doug las	Vaal harts	Mean
Akwa	42.60	37.50	40.20	57.20	50.90	39.95	34.25	43.23
Ane1	39.45	27.55	38.90	44.60	36.95	23.55	38.75	35.68
PC 357 K1	42.85	34.90	42.85	54.55	44.85	34.70	29.05	40.54
PC 369 K2	46.70	37.95	41.20	49.55	63.25	32.85	35.85	43.91
Inkanyezi	26.30	20.15	25.65	38.45	34.45	22.20	16.50	26.24
Kwarts	33.30	31.85	27.60	42.45	29.00	27.15	2.10	27.64
PC 371 K1	32.10	31.20	47.85	52.65	52.75	43.65	19.10	39.90
PC 369 K3	37.80	33.50	44.25	70.15	63.00	37.05	34.65	45.77
Tufa	16.65	6.35	5.10	16.65	16.95	3.95	9.45	10.73
PC 299 K1	41.40	24.85	32.75	30.00	39.75	29.05	17.05	30.69
ARC-01eic2	32.35	17.45	31.95	47.55	55.15	23.65	26.40	33.50
PC 338 K3	46.80	34.50	36.60	59.80	45.65	45.75	28.00	42.44
ARC-0pa11	50.30	40.40	55.05	52.05	67.40	39.95	26.00	47.31
SA Juweel	46.60	25.45	45.70	54.00	52.45	30.10	21.00	39.33
Mean	38.23	28.83	36.83	47.83	46.61	30.97	24.15	36.21

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Table 11 Percentage (%) kernels on the 7.5 mm screen at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Burh mans drif	Lich ten burg	Naboom spruit	Doug las	Vaal harts	Mean
Akwa	86.50	73.55	70.85	85.05	81.50	76.45	69.85	77.68
Ane1	81.90	63.45	77.80	77.30	70.50	64.45	67.95	71.91
PC 357 K1	84.05	68.00	74.80	79.75	76.55	77.45	66.75	75.34
PC 369 K2	85.70	73.00	78.00	75.80	87.55	73.90	68.10	77.44
Inkanyezi	76.75	50.70	67.10	70.35	69.95	62.20	57.70	64.96
Kwarts	80.25	67.25	69.90	77.65	71.65	72.20	25.40	66.33
PC 371 K1	77.55	66.45	82.85	82.20	88.00	80.15	47.10	74.90
PC 369 K3	82.30	71.70	81.80	86.70	87.15	77.60	67.60	79.26
Tufa	59.15	35.20	49.85	61.05	62.40	33.60	49.00	50.04
PC 299 K1	85.50	63.90	74.25	68.55	81.10	65.40	54.20	70.41
ARC-01eic2	78.00	51.25	61.35	76.60	86.85	62.35	65.00	68.77
PC 338 K3	86.35	64.40	65.00	82.60	72.15	79.40	60.95	72.98
ARC-0pa11	89.70	79.90	85.15	82.85	92.30	81.60	58.95	81.49
SA Juweel	85.00	60.40	81.75	82.40	75.00	70.30	55.50	72.91
Mean	81.34	63.51	72.89	77.77	78.76	69.79	58.15	71.74

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

Cultivar	Brits	Pot chef stroom	Burh mans drif	Lich ten burg	Naboom spruit	Doug las	Vaal harts	Mean
Akwa	97.90	87.95	79.70	90.20	91.85	87.05	78.85	87.64
Ane1	95.95	87.65	91.70	87.25	82.15	88.70	77.10	87.21
PC 357 K1	98.35	80.55	81.60	84.50	87.55	91.50	74.80	85.55
PC 369 K2	97.60	89.90	85.35	83.05	97.10	93.10	77.85	89.14
Inkanyezi	96.75	73.70	83.00	83.70	86.60	83.35	81.25	84.05
Kwarts	97.40	90.60	83.95	89.95	92.55	92.25	58.15	86.41
PC 371 K1	95.70	82.75	91.45	87.80	97.30	95.00	57.90	86.84
PC 369 K3	97.80	87.30	91.40	90.50	98.20	93.35	75.65	90.60
Tufa	92.60	85.10	83.25	86.05	89.50	75.10	87.30	85.56
PC 299 K1	98.10	87.50	89.90	84.85	96.70	89.00	81.85	89.70
ARC-01eic2	92.40	79.45	79.50	82.30	95.95	83.40	82.25	85.04
PC 338 K3	95.75	82.05	72.60	87.35	82.25	92.10	73.05	83.59
ARC-0pa11	99.00	90.35	90.55	87.40	97.10	95.60	66.30	89.47
SA Juweel	97.30	82.55	94.00	89.05	88.30	88.60	73.70	87.64
Mean	96.61	84.81	85.57	86.71	91.65	89.15	74.71	87.03

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Table 13 Percentage (%) kernels on the 6.00 mm screen at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Burh mans drif	Lich ten burg	Naboom spruit	Doug las	Vaal harts	Mean
Akwa	1.35	3.45	3.40	1.05	3.55	1.55	1.90	2.32
Ane1	3.25	6.30	3.55	2.85	3.00	7.00	3.20	4.16
PC 357 K1	1.55	4.65	3.75	1.15	3.85	3.90	3.50	3.19
PC 369 K2	1.65	4.35	4.45	3.30	2.45	3.65	3.85	3.39
Inkanyezi	2.45	9.00	4.45	3.40	5.70	4.30	4.35	4.81
Kwarts	1.65	3.00	4.15	3.00	3.15	4.00	7.15	3.73
PC 371 K1	2.90	4.50	2.25	1.40	2.20	1.70	2.60	2.51
PC 369 K3	1.45	4.80	2.55	1.55	1.60	2.65	3.45	2.58
Tufa	6.60	10.85	6.40	3.10	6.90	15.40	6.65	7.99
PC 299 K1	1.70	6.15	3.45	4.65	2.40	4.70	3.60	3.81
ARC-01eic2	4.95	10.90	5.15	2.85	2.30	7.60	4.95	5.53
PC 338 K3	3.20	4.20	4.45	1.65	3.70	2.90	3.60	3.39
ARC-0pa11	0.95	1.20	2.35	2.50	1.45	1.60	1.60	1.66
SA Juweel	2.00	7.60	2.50	3.45	5.25	2.80	4.05	3.95
Mean	2.55	5.78	3.77	2.56	3.39	4.55	3.89	3.79

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Table 14 Percentage (%) kernels in the pan at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Burh mans drif	Lich ten burg	Naboom spruit	Doug las	Vaal harts	Mean
Akwa	0.50	1.00	3.65	0.45	1.20	2.65	2.50	1.71
Anel	0.65	1.60	1.10	1.10	1.05	2.15	2.20	1.41
PC 357 K1	0.00	1.40	2.55	0.70	1.40	0.65	1.65	0.48
PC 369 K2	0.25	1.25	1.05	1.20	0.25	1.45	1.60	1.01
Inkanyezi	0.20	3.15	2.25	1.10	2.55	1.15	2.15	1.79
Kwarts	0.40	1.10	1.25	0.90	0.65	1.65	2.65	1.23
PC 371 K1	0.60	2.10	1.35	0.85	0.40	1.55	2.55	1.34
PC 369 K3	0.55	0.65	1.35	1.35	10.00	1.95	2.00	2.55
Tufa	0.50	2.10	2.20	1.20	1.00	3.80	2.55	1.91
PC 299 K1	5.00	1.65	1.60	2.05	0.25	2.40	1.95	2.13
PC 327 K31	1.35	3.80	2.80	3.75	0.65	3.00	1.40	2.39
PC 338 K3	0.10	2.15	3.30	1.00	2.90	1.40	3.65	2.07
PC 366 K9	0.00	0.70	1.25	1.80	0.45	1.15	16.30	3.06
SA Juweel	0.40	1.80	0.35	0.55	1.40	0.90	3.15	1.22
Mean	0.37	1.75	1.86	1.29	1.72	1.85	3.31	1.74

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Table 15 Percentage (%) splits at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Burh mans drif	Lich ten burg	Naboom spruit	Doug las	Vaal harts	Mean
Akwa	0.15	6.65	11.65	8.20	2.75	8.50	16.45	7.76
Ane1	0.00	3.05	3.15	8.55	13.45	1.80	16.50	6.64
PC 357 K1	0.00	12.60	10.75	13.20	6.10	3.85	19.00	9.36
PC 369 K2	0.00	3.80	7.85	12.00	0.10	1.50	16.05	5.90
Inkanyezi	0.00	11.60	9.95	11.15	3.60	10.95	11.65	8.41
Kwarts	0.30	5.00	9.80	6.15	3.15	1.55	30.95	8.13
PC 371 K1	0.40	8.55	4.75	9.80	0.10	1.60	36.10	8.76
PC 369 K3	0.00	6.20	4.20	6.05	0.00	1.80	18.25	5.21
Tufa	0.00	0.90	6.60	9.45	1.40	3.70	3.05	3.59
PC 299 K1	0.00	3.80	3.85	6.75	0.00	3.60	12.20	4.31
PC 327 K31	0.45	3.60	11.90	10.65	0.70	5.65	10.85	6.26
PC 338 K3	0.60	10.20	18.35	9.70	9.85	3.60	19.25	10.22
PC 366 K9	0.30	7.60	5.20	7.90	0.90	1.65	15.20	5.54
SA Juweel	0.00	5.95	2.90	6.75	3.90	7.40	17.20	6.30
Mean	0.16	6.39	7.92	9.02	3.29	4.08	17.34	6.89

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Table 16 Percentage (%) unsound, blemished and soiled kernels at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Burh mans drif	Lich ten burg	Naboom spruit	Doug las	Vaal harts	Mean
Akwa	1.81	4.91	0.63	2.56	7.67	1.13	2.46	3.03
Ane1	2.37	9.44	3.71	0.96	5.32	1.54	2.21	3.65
PC 357 K1	2.50	6.41	1.20	2.98	8.28	1.06	3.79	3.74
PC 369 K2	2.57	5.68	3.82	1.32	12.24	0.46	1.59	3.95
Inkanyezi	2.32	4.19	3.08	2.49	5.21	1.52	1.74	2.94
Kwarts	3.42	3.65	1.43	3.33	10.75	1.43	5.31	4.19
PC 371 K1	3.03	7.37	1.83	1.52	7.78	1.42	4.37	3.90
PC 369 K3	2.72	6.05	0.97	2.55	4.51	0.36	3.13	2.90
Tufa	1.26	7.98	0.88	1.22	3.43	3.90	1.03	2.81
PC 299 K1	1.75	9.75	1.64	5.65	4.74	1.54	2.92	4.00
ARC-01eic2	2.71	13.14	2.99	5.05	5.40	0.62	1.32	4.46
PC 338 K3	1.21	7.05	0.89	1.11	5.29	3.80	2.55	3.13
ARC-0pa11	0.75	3.38	1.07	1.99	5.28	0.76	3.83	2.44
SA Juweel	1.11	15.68	1.66	1.31	10.45	1.41	4.53	5.16
Mean	2.11	7.48	1.84	2.43	6.88	1.50	2.91	3.59

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Table 17 Percentage (%) unsound kernels in the edible grade at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Burh mans drif	Lich ten burg	Naboom spruit	Doug las	Vaal harts	Mean
Akwa	0.65	2.53	0.26	0.30	1.22	0.00	0.21	0.74
Anel	0.20	1.94	0.15	0.00	0.86	0.41	1.03	0.66
PC 357 K1	0.00	2.03	0.10	0.30	1.38	0.00	1.38	0.74
PC 369 K2	0.65	1.12	1.43	1.02	0.15	0.25	0.26	0.70
Inkanyezi	0.00	0.94	0.56	0.81	1.25	0.61	0.36	0.65
Kwarts	1.01	0.51	0.66	0.00	1.41	0.66	2.37	0.95
PC 371 K1	0.86	2.20	0.20	0.15	0.15	0.81	1.75	0.88
PC 369 K3	0.60	0.91	0.10	1.07	0.00	0.00	0.56	0.46
Tufa	0.00	2.51	0.21	0.25	0.10	2.21	0.51	0.83
PC 299 K1	0.55	3.22	0.56	2.62	0.76	0.82	0.31	1.26
ARC-01eic2	1.23	5.57	1.34	2.92	0.50	0.26	0.56	1.77
PC 338 K3	0.00	2.32	0.00	0.00	1.25	0.15	1.25	0.71
ARC-0pa11	0.50	0.50	0.00	0.31	0.40	0.15	1.50	0.48
SA Juweel	0.25	7.12	0.45	0.30	5.81	0.40	1.72	2.29
Mean	0.46	2.39	0.43	0.72	1.09	0.48	0.98	0.94

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Table 18 Percentage (%) defects in the edible grade at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Burh mans drif	Lich ten burg	Naboom spruit	Doug las	Vaal harts	Mean
Akwa	2.92	6.43	2.96	2.82	8.79	1.13	6.88	4.56
Ane1	3.48	10.46	5.99	2.58	8.51	2.05	8.27	5.91
PC 357 K1	4.05	7.93	4.16	4.79	10.53	1.31	15.16	6.85
PC 369 K2	2.87	6.39	7.24	3.71	12.24	1.02	8.03	5.93
Inkanyezi	2.32	7.29	3.75	6.00	6.82	2.03	3.90	4.59
Kwarts	3.67	5.27	6.11	5.50	12.51	1.94	11.60	6.66
PC 371 K1	4.04	10.29	2.69	2.32	10.14	1.78	8.33	5.66
PC 369 K3	3.48	7.72	1.53	4.89	5.31	1.02	10.72	4.95
Tufa	2.12	8.18	2.80	1.47	3.43	3.90	2.68	3.51
PC 299 K1	2.05	10.97	2.71	8.07	4.74	1.54	6.71	5.26
ARC-01eic2	2.71	13.40	4.75	6.14	6.31	1.50	4.02	5.55
PC 338 K3	2.11	9.98	5.50	1.98	8.98	4.26	6.05	5.55
ARC-0pa11	2.89	4.49	2.04	3.26	5.83	1.01	7.37	3.84
SA Juweel	2.62	16.85	4.42	3.02	11.06	2.17	6.82	6.71
Mean	2.95	8.98	4.05	4.04	8.23	1.90	7.61	5.39

MAKSIPLAN 2012

Table 19 Percentage (%) choice grade at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Burh mans drif	Lich ten burg	Naboom spruit	Doug las	Vaal harts	Mean
Akwa	95.00	83.20	77.05	87.40	85.15	85.95	73.60	83.91
Anel	92.80	78.80	86.50	85.35	75.30	87.15	71.30	82.46
PC 357 K1	94.30	74.20	78.30	80.05	79.55	90.35	62.95	79.96
PC 369 K2	94.90	85.20	81.15	80.50	0.00	92.25	71.35	72.19
Inkanyezi	94.55	68.75	80.55	78.45	82.55	82.25	78.75	80.84
Kwartz	94.05	85.55	78.60	84.90	0.00	90.70	49.15	68.99
PC 371 K1	92.35	75.50	89.20	85.50	88.30	93.70	51.40	82.28
PC 369 K3	94.35	80.90	90.15	86.75	92.90	92.70	66.15	86.27
Tufa	90.85	79.00	81.25	85.05	87.55	73.20	85.35	83.18
PC 299 K1	96.05	78.95	88.30	79.45	92.45	88.00	75.90	85.59
ARC-01eic2	90.10	0.00	76.20	77.20	90.75	82.40	79.30	70.85
PC 338 K3	94.05	74.25	68.90	86.10	75.25	88.15	68.55	79.32
ARC-0pa11	96.10	85.90	89.05	84.80	92.65	94.75	61.15	86.34
SA Juweel	94.70	0.00	89.90	87.50	80.00	86.60	69.25	72.56
Mean	93.87	67.87	82.51	83.50	73.03	87.72	68.87	79.62

MAKSIPLAN 2012

Irrigated/Sprayed trial 2011/12

Table 20 Percentage (%) standard grade at the different localities, 2011/12

Cultivar	Brits	Pot chef stream	Burh mans drif	Lich ten burg	Naboom spruit	Doug las	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	0.00	0.00
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	85.85	0.00	0.00	12.26
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	80.80	0.00	0.00	11.54
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	69.40	0.00	0.00	0.00	0.00	0.00	9.91
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	69.40	0.00	0.00	0.00	0.00	0.00	9.91
Mean	0.00	9.91	0.00	0.00	11.90	0.00	0.00	3.12

MAKSIPLAN 2012

Irrigated/Sprayed trial 2011/12



Table 21 Percentage (%) diverse grade at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Burh mans drif	Lich ten burg	Naboom spruit	Doug las	Vaal harts	Mean
Akwa	3.75	12.20	17.30	11.75	10.60	11.15	22.35	12.73
Anel	5.90	16.35	11.30	12.65	21.25	9.65	23.60	14.39
PC 357 K1	5.60	21.85	17.20	18.80	15.30	8.75	30.75	16.89
PC 369 K2	3.70	11.60	13.10	15.75	12.85	5.60	24.80	12.49
Inkanyezi	4.55	24.00	15.50	18.80	10.15	15.00	17.25	15.04
Kwartz	4.00	12.40	18.60	13.80	16.50	6.40	44.65	16.62
PC 371 K1	5.50	18.20	8.65	13.35	10.20	3.80	43.10	14.69
PC 369 K3	4.30	16.55	7.75	9.70	6.90	4.75	30.20	11.45
Tufa	8.00	15.50	14.50	12.85	8.75	18.95	10.85	12.77
PC 299 K1	3.20	14.65	8.30	14.10	5.45	8.80	20.85	10.76
ARC-01eic2	6.25	19.70	18.60	15.75	6.85	13.55	17.50	14.03
PC 338 K3	5.10	20.00	24.95	11.90	19.15	10.05	25.30	16.64
ARC-0pa11	3.65	12.75	8.55	12.70	5.05	3.95	20.75	9.63
SA Juweel	4.35	20.00	9.05	10.00	11.20	11.95	24.25	12.97
Mean	4.85	16.84	13.81	13.71	11.44	9.45	25.44	13.65

MAKSIPLAN 2012

Table 22 Percentage (%) crushing material at the different localities, 2011/12

Cultivar	Brits	Pot chef stream	Burh mans drif	Lich ten burg	Naboom spruit	Doug las	Vaal harts	Mean
Akwa	1.25	4.60	5.65	0.85	4.25	2.90	4.05	3.36
Anel	1.30	4.85	2.20	2.00	3.45	3.20	5.10	3.16
PC 357 K1	10.00	3.95	4.50	1.15	5.15	0.90	6.30	4.56
PC 369 K2	1.40	3.20	5.75	3.75	1.30	2.15	3.85	3.06
Inkanyezi	0.90	7.25	3.95	2.75	7.30	2.75	4.00	4.13
Kwarts	1.95	2.05	2.80	1.30	2.70	2.90	6.20	2.84
PC 371 K1	2.15	6.30	2.15	1.15	1.50	2.50	5.50	3.04
PC 369 K3	1.35	2.55	2.10	3.55	0.20	2.55	3.65	2.28
Tufa	1.15	5.50	4.25	2.10	3.70	7.85	3.80	4.05
PC 299 K1	0.75	6.40	3.40	6.45	2.10	3.20	3.25	3.65
ARC-01eic2	3.65	10.90	5.20	7.05	2.40	4.05	3.20	5.21
PC 338 K3	0.85	5.75	6.15	2.00	5.60	1.80	6.15	4.04
ARC-0pa11	0.25	1.35	2.40	2.50	2.30	1.30	18.10	4.03
SA Juweel	0.95	10.60	1.05	2.50	8.80	1.45	6.50	4.55
Mean	1.99	5.37	3.68	2.79	3.62	2.82	5.69	3.71

MAKSIPLAN 2012

Irrigated/Sprayed trial 2011/12

Table 23 Percentage (%) 1-kernel pods at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Burh mans drif	Lich ten burg	Naboom spruit	Doug las	Vaal harts	Mean
Akwa	12.35	28.57	19.32	12.79	11.58	8.79	23.58	16.71
Anel	5.81	32.73	18.09	10.87	11.36	20.83	24.21	17.70
PC 357 K1	31.03	35.96	21.51	25.64	24.18	30.43	24.75	27.64
PC 369 K2	29.29	29.41	7.50	24.14	28.00	17.78	22.09	22.60
Inkanyezi	15.15	39.02	32.79	31.31	32.17	23.97	71.22	35.09
Kwartz	16.28	27.00	28.57	22.47	26.04	14.89	40.29	25.08
PC 371 K1	20.45	23.53	12.09	17.65	33.33	33.64	23.81	23.50
PC 369 K3	11.11	29.52	5.62	22.73	21.05	12.50	20.79	17.62
Tufa	11.65	36.89	44.62	21.57	36.64	53.09	35.29	34.25
PC 299 K1	9.57	32.23	20.79	21.78	20.35	25.89	26.50	22.45
ARC-01eic2	13.68	34.81	6.42	20.83	20.56	19.83	24.75	20.13
PC 338 K3	4.94	37.74	11.49	22.58	27.62	30.39	21.70	22.35
ARC-0pa11	11.39	14.89	6.90	26.32	42.27	29.52	26.00	22.47
SA Juweel	23.53	31.03	17.24	25.30	14.29	31.58	28.57	24.51
Mean	15.45	30.95	18.07	21.86	24.96	25.22	29.54	23.72

MAKSIPLAN 2012

Irrigated/Sprayed trial 2011/12

Table 24 Percentage (%) 2-kernel pods at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Burh mans drif	Lich ten burg	Naboom spruit	Doug las	Vaal harts	Mean
Akwa	87.65	71.43	80.68	87.21	88.42	91.21	76.42	83.29
Anel	94.19	67.27	81.91	89.13	88.64	79.17	75.79	82.30
PC 357 K1	68.97	62.92	78.49	74.36	74.73	69.57	75.25	72.04
PC 369 K2	70.71	69.61	92.50	75.86	72.00	82.22	77.91	77.26
Inkanyezi	84.85	60.16	67.21	68.69	67.83	76.03	28.78	64.79
Kwartz	83.72	73.00	71.43	77.53	73.96	85.11	59.71	74.92
PC 371 K1	79.55	76.47	87.91	82.35	66.67	66.36	76.19	76.50
PC 369 K3	88.89	70.48	94.38	76.14	77.89	87.50	79.21	82.07
Tufa	88.35	63.11	55.38	78.43	62.60	46.91	64.71	65.64
PC 299 K1	90.43	67.77	79.21	78.22	79.65	74.11	73.50	77.55
ARC-01eic2	86.32	65.19	93.58	79.17	79.44	80.17	75.25	79.87
PC 338 K3	95.06	61.32	88.51	77.42	72.38	69.61	78.30	77.51
ARC-0pa11	88.61	85.11	93.10	73.68	57.73	70.48	74.00	77.53
SA Juweel	76.47	68.97	82.76	74.70	85.71	68.42	71.43	75.49
Mean	84.55	68.77	81.93	78.06	74.83	74.78	70.46	76.20

MAKSIPLAN 2012

Irrigated/Sprayed trial 2011/12

Table 25 Percentage (%) 3-kernel pods at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Burh mans drif	Lich ten burg	Naboom spruit	Doug las	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	0.00	0.00
PC 357 K1	0.00	1.12	0.00	0.00	1.10	0.00	0.00	0.32
PC 369 K2	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.14
Inkanyezi	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.12
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	1.14	1.05	0.00	0.00	0.31
Tufa	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.11
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	0.94	0.00	0.00	0.00	0.00	0.00	0.13
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	0.28	0.00	0.08	0.21	0.00	0.00	0.08

MAKSIPLAN 2012

Irrigated/Sprayed trial 2011/12

Table 26 Percentage (%) round kernels at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Burh mans drif	Lich ten burg	Naboom spruit	Doug las	Vaal harts	Mean
Akwa	95.64	90.14	96.69	96.63	94.13	95.70	95.63	94.94
Ane1	94.32	88.70	89.49	93.81	91.32	89.20	92.39	91.32
PC 357 K1	78.92	78.13	83.58	89.35	75.90	79.51	76.60	80.28
PC 369 K2	88.89	93.73	96.38	93.77	91.64	82.93	94.02	91.62
Inkanyezi	96.50	97.14	97.30	97.13	97.38	97.35	97.91	97.24
Kwarts	91.89	95.36	94.93	95.63	92.97	88.71	98.59	94.01
PC 371 K1	93.08	96.32	96.90	96.01	92.84	88.77	97.99	94.56
PC 369 K3	94.49	95.38	94.27	97.11	93.99	93.32	96.62	95.02
Tufa	96.17	98.70	97.75	96.23	95.96	96.59	94.97	96.62
PC 299 K1	92.97	94.57	96.23	95.70	93.83	96.12	98.41	95.40
PC 327 K31	96.51	97.30	96.83	97.79	97.36	98.72	97.13	97.38
PC 338 K3	98.01	95.17	95.16	96.17	95.29	96.76	96.42	96.14
PC 366 K9	94.62	91.80	95.89	96.70	94.17	89.97	98.17	94.48
SA Juweel	94.01	90.99	96.68	97.71	84.54	94.89	97.59	93.77
Mean	93.29	93.10	94.86	95.69	92.24	92.04	95.17	93.77

MAKSIPLAN 2012

BLE 27 Grading tables for the irrigated/ sprayed trial localities. 2011/12

l nr : 1  
on: 11\_12  
Locality: BRITS  
Plot size: 16.2 mS2T

Pod	Kernel	Shel	Total	Kernels above						Pan Total	UBS	Un- sound	Choice mark	Stan- dard	Sundry market	Chrur shing	Splits	1		2		3		Kernel	Round
				mass	ling	kernel	9	8.25	7.5									6.75	6	%	defec-	%	mark		
AKwa	8360	349	69.7	5827	7.9	42.6	86.5	97.9	1.4	0.5	2.9	1.8	0.7	95.0	0.0	3.8	1.25	0.15	12.35	87.65	0.00	533.52	95.64		
Ane1	7877	316	63.3	4983	7.3	39.5	81.9	96.0	3.3	0.6	3.5	2.4	0.2	92.8	0.0	5.9	1.30	0.00	5.81	94.19	0.00	545.17	94.32		
PC 357 K1	10290	310	62.0	6384	6.3	42.9	84.1	98.4	1.6	0.0	4.1	2.5	0.0	94.3	0.0	5.6	0.10	0.00	31.03	68.97	0.00	592.47	78.92		
PC 369 K2	7427	352	70.4	5231	5.7	46.7	85.7	97.6	1.7	0.3	2.9	2.6	0.7	94.9	0.0	3.7	1.40	0.00	29.29	70.71	0.00	542.22	88.89		
Inkanyezi	7277	274	54.8	3991	2.3	26.3	76.8	96.8	2.5	0.2	2.3	2.3	0.0	94.6	0.0	4.6	0.90	0.00	15.15	84.85	0.00	452.10	96.50		
Kwarts	7753	348	69.7	5403	6.8	33.3	80.3	97.4	1.7	0.4	3.7	3.4	1.0	94.1	0.0	4.0	1.95	0.30	16.28	83.72	0.00	526.49	91.89		
PC 371 K1	8670	354	70.8	6135	3.7	32.1	77.6	95.7	2.9	0.6	4.0	3.0	0.9	92.4	0.0	5.5	2.15	0.40	20.45	79.55	0.00	490.77	93.08		
PC 369 K3	10500	356	71.1	7470	5.3	37.8	82.3	97.8	1.5	0.6	3.5	2.7	0.6	94.4	0.0	4.3	1.35	0.00	11.11	88.89	0.00	513.39	94.49		
Tufa	10453	312	62.4	6521	1.4	16.7	59.2	92.6	6.6	0.5	2.1	1.3	0.0	90.9	0.0	8.0	1.15	0.00	11.65	88.35	0.00	506.01	96.17		
PC 299 K1	9943	359	71.8	7141	4.3	41.4	85.5	98.1	1.7	0.1	2.1	1.8	0.6	96.0	0.0	3.2	0.75	0.00	9.57	90.43	0.00	510.94	92.97		
ARC-01e1c2	9763	353	70.5	6887	2.9	32.3	78.0	92.4	5.0	1.3	2.7	2.7	1.2	90.1	0.0	6.3	3.65	0.45	13.68	86.32	0.00	495.44	96.51		
PC 338 K3	8687	331	66.1	5745	7.9	46.8	86.4	95.8	3.2	0.1	2.1	1.2	0.0	94.1	0.0	5.1	0.85	0.60	4.94	95.06	0.00	545.58	98.01		
ARC-Opal1	9270	337	67.4	6250	8.5	50.3	89.7	99.0	1.0	0.0	2.9	0.7	0.5	96.1	0.0	3.7	0.25	0.30	11.39	88.61	0.00	532.26	94.62		
SA Juweel	7867	325	64.9	5107	13.3	46.6	85.0	97.3	2.0	0.4	2.6	1.1	0.3	94.7	0.0	4.4	0.95	0.00	23.53	76.47	0.00	582.63	94.01		

l nr : 3  
on: 11\_12  
Locality: POTCHEFSTROOM  
Plot size: 16.2 mS2T

Pod	Kernel	Shel	Total	Kernels above						Pan Total	UBS	Un- sound	Choice mark	Stan- dard	Sundry market	Chrur shing	Splits	1		2		3		Kernel	Round
				mass	ling	kernel	9	8.25	7.5									6.75	6	%	defec-	%	mark		
AKwa	5540	387	77.3	4284	7.8	37.5	73.6	88.0	3.5	1.0	6.4	4.9	2.5	83.2	0.0	12.2	4.60	6.65	28.57	71.43	0.00	509.86	90.14		
Ane1	4717	372	74.3	3506	5.1	27.6	63.5	87.7	6.3	1.6	10.5	9.4	1.9	78.8	0.0	16.4	4.85	3.05	32.73	67.27	0.00	508.12	88.70		
PC 357 K1	5570	363	72.5	4040	6.0	34.9	68.0	80.6	4.7	1.4	7.9	6.4	2.0	74.2	0.0	21.9	3.95	12.60	35.96	62.92	1.12	559.38	78.13		
PC 369 K2	5160	367	73.5	3792	5.6	38.0	73.0	89.9	4.4	1.3	6.4	5.7	1.1	85.2	0.0	11.6	3.20	3.80	29.41	69.61	0.98	536.72	93.73		
Inkanyezi	4507	329	65.8	2964	2.2	20.2	50.7	73.7	9.0	3.2	7.3	4.2	0.9	68.8	0.0	24.0	7.25	11.60	39.02	60.16	0.81	421.14	97.14		
Kwarts	4237	351	70.2	2974	6.9	31.9	67.3	90.6	3.0	1.1	5.3	3.7	0.5	85.5	0.0	12.4	2.05	5.00	27.00	73.00	0.00	467.01	95.36		
PC 371 K1	4923	382	76.4	3763	3.1	31.2	66.5	82.8	4.5	2.1	10.3	7.4	2.2	75.5	0.0	18.2	6.30	8.55	23.53	76.47	0.00	468.84	96.32		
PC 369 K3	4567	367	73.3	3348	3.4	33.5	71.7	87.3	4.8	0.7	7.7	6.1	0.9	80.9	0.0	16.5	2.55	6.20	29.52	70.48	0.00	474.46	95.38		
Tufa	5460	360	72.1	3936	0.0	6.4	35.2	85.1	10.9	2.1	8.2	8.0	2.5	79.0	0.0	15.5	5.50	0.90	36.89	63.11	0.00	443.23	98.70		
PC 299 K1	4047	339	67.7	2741	2.1	24.9	63.9	87.5	6.2	1.7	11.0	9.7	3.2	79.0	0.0	14.7	6.40	3.80	32.23	67.77	0.00	452.20	94.57		
ARC-01e1c2	3520	361	72.2	2541	0.7	17.5	51.3	79.5	10.9	3.8	13.4	13.1	5.6	0.0	69.4	19.7	10.90	3.60	34.81	65.19	0.00	428.30	97.30		
PC 338 K3	2953	349	69.9	2064	7.4	34.5	64.4	82.1	4.2	2.2	10.0	7.1	2.3	74.3	0.0	20.0	5.75	10.20	37.74	61.32	0.94	495.77	95.17		
ARC-Opal1	5920	382	76.4	4521	5.0	40.4	79.9	90.4	1.2	0.7	4.5	3.4	0.5	85.9	0.0	12.8	1.35	7.60	14.89	85.11	0.00	493.72	91.80		
SA Juweel	5313	330	66.1	3511	0.8	25.5	60.4	82.6	7.6	1.8	16.9	15.7	7.1	0.0	69.4	20.0	10.60	5.95	31.03	68.97	0.00	512.73	90.99		

l nr : 6  
 on: 11\_12  
 Locality: BURHWANSDRIF  
 Plot size: 16.2 mS2T

Pod	Kernel	Shell	Total	Kernels above						Pan	Total	UBS	Un-	Choice	Stan-	Sundry	Chru	Splits	1	2	3	Kernel	Round
				mass	ling	kernel	9	8.25	7.5														
mass	g	500g	g	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
Akwa	5767	301	60.1	3466	1.0	40.2	70.9	79.7	3.4	3.7	3.0	0.6	0.3	77.1	0.0	17.3	5.65	11.65	19.32	80.68	0.00	527.81	96.69
Ane1	6477	377	75.5	4887	9.9	38.9	77.8	91.7	3.6	1.1	6.0	3.7	0.2	86.5	0.0	11.3	2.20	3.15	18.09	81.91	0.00	521.02	89.49
PC 357 K1	6280	363	72.5	4553	7.7	42.9	74.8	81.6	3.8	2.5	4.2	1.2	0.1	78.3	0.0	17.2	4.50	10.75	21.51	78.49	0.00	595.62	83.58
PC 369 K2	6857	373	74.6	5115	2.9	41.2	78.0	85.4	4.5	1.1	7.2	3.8	1.4	81.2	0.0	13.1	5.75	7.85	7.50	92.50	0.00	561.51	96.38
Inkanyezi	6210	375	74.9	4653	2.6	25.7	67.1	83.0	4.5	2.3	3.7	3.1	0.6	80.6	0.0	15.5	3.95	9.95	32.79	67.21	0.00	448.65	97.30
Kwartz	6400	380	76.1	4868	2.3	27.6	69.9	84.0	4.2	1.3	6.1	1.4	0.7	78.6	0.0	18.6	2.80	9.80	28.57	71.43	0.00	501.19	94.93
PC 371 K1	6343	373	74.6	4735	3.7	47.9	82.9	91.5	2.3	1.3	2.7	1.8	0.2	89.2	0.0	8.6	2.15	4.75	12.09	87.91	0.00	515.21	96.90
PC 369 K3	6987	374	74.9	5230	6.2	44.3	81.8	91.4	2.6	1.3	1.5	1.0	0.1	90.2	0.0	7.8	2.10	4.20	5.62	94.38	0.00	523.78	94.27
Tufa	7150	378	75.6	5405	0.0	5.1	49.9	83.3	6.4	2.2	2.8	0.9	0.2	81.3	0.0	14.5	4.25	6.60	44.62	55.38	0.00	469.01	97.75
PC 299 K1	6933	373	74.7	5176	3.5	32.8	74.3	89.9	3.5	1.6	2.7	1.6	0.6	88.3	0.0	8.3	3.40	3.85	20.79	79.21	0.00	484.64	96.23
ARC-01e1c2	6163	343	68.5	4222	2.8	32.0	61.4	79.5	5.2	2.8	4.7	3.0	1.3	76.2	0.0	18.6	5.20	11.90	6.42	93.58	0.00	458.21	96.83
PC 338 K3	6770	295	59.0	3993	2.4	36.6	65.0	72.6	4.5	3.3	5.5	0.9	0.0	68.9	0.0	25.0	6.15	18.35	11.49	88.51	0.00	502.42	95.16
ARC-0pa11	6469	371	74.2	4801	7.3	55.1	85.2	90.6	2.4	1.3	2.0	1.1	0.0	89.1	0.0	8.6	2.40	5.20	6.90	93.10	0.00	531.09	95.89
SA Juweel	6630	362	72.4	4803	12.1	45.7	81.8	94.0	2.5	0.3	4.4	1.7	0.5	89.9	0.0	9.1	1.05	2.90	17.24	82.76	0.00	567.98	96.68

l nr : 7  
 on: 11\_12  
 Locality: LICHTENBURG  
 Plot size: 16.2 mS2T

Pod	Kernel	Shell	Total	Kernels above						Pan	Total	UBS	Un-	Choice	Stan-	Sundry	Chru	Splits	1	2	3	Kernel	Round
				mass	ling	kernel	9	8.25	7.5														
mass	g	500g	g	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
Akwa	11285	365	73.0	8240	12.2	57.2	85.0	90.2	1.1	0.4	2.8	2.6	0.3	87.4	0.0	11.8	0.85	8.20	12.79	87.21	0.00	553.37	96.63
Ane1	11269	402	80.4	9062	3.9	44.6	77.3	87.3	2.9	1.1	2.6	1.0	0.0	85.4	0.0	12.7	2.00	8.55	10.87	89.13	0.00	514.75	93.81
PC 357 K1	11683	376	75.3	8792	14.6	54.6	79.8	84.5	1.2	0.7	4.8	3.0	0.3	80.1	0.0	18.8	1.15	13.20	25.64	74.36	0.00	580.76	89.35
PC 369 K2	11517	390	77.9	8976	5.3	49.6	75.8	83.1	3.3	1.2	3.7	1.3	1.0	80.5	0.0	15.8	3.75	12.00	24.14	75.86	0.00	544.59	93.77
Inkanyezi	9937	364	72.7	7224	8.1	38.5	70.4	83.7	3.4	1.1	6.0	2.5	0.8	78.5	0.0	18.8	2.75	11.15	31.31	68.69	0.00	481.03	97.13
Kwartz	10940	391	78.2	8555	1.9	42.5	77.7	90.0	3.0	0.9	5.5	3.3	0.0	84.9	0.0	13.8	1.30	6.15	22.47	77.53	0.00	524.49	95.63
PC 371 K1	11315	401	80.3	9084	11.4	52.7	82.2	87.8	1.4	0.9	2.3	1.5	0.2	85.5	0.0	13.4	1.15	9.80	17.65	82.35	0.00	538.65	96.01
PC 369 K3	11837	395	79.0	9346	14.3	70.2	86.7	90.5	1.6	1.3	4.9	2.5	1.1	86.8	0.0	9.7	3.55	6.05	22.73	76.14	1.14	581.99	97.11
Tufa	11459	385	76.9	8817	0.0	16.7	61.1	86.1	3.1	1.2	1.5	1.2	0.3	85.1	0.0	12.9	2.10	9.45	21.57	78.43	0.00	498.84	96.23
PC 299 K1	10431	400	79.9	8338	0.4	30.0	68.6	84.9	4.7	2.0	8.1	5.7	2.6	79.5	0.0	14.1	6.45	6.75	21.78	78.22	0.00	456.18	95.70
ARC-01e1c2	10060	395	78.9	7941	4.5	47.6	76.6	82.3	2.9	3.8	6.1	5.0	2.9	77.2	0.0	15.8	7.05	10.65	20.83	79.17	0.00	519.24	97.79
PC 338 K3	10756	376	75.3	8095	18.4	59.8	82.6	87.4	1.7	1.0	2.0	1.1	0.0	86.1	0.0	11.9	2.00	9.70	22.58	77.42	0.00	743.40	96.17
ARC-0pa11	11696	397	79.5	9296	5.4	52.1	82.9	87.4	2.5	1.8	3.3	2.0	0.3	84.8	0.0	12.7	2.50	7.90	26.32	73.68	0.00	524.93	96.70
SA Juweel	10167	381	76.3	7755	18.0	54.0	82.4	89.1	3.5	0.6	3.0	1.3	0.3	87.5	0.0	10.0	2.50	6.75	25.30	74.70	0.00	582.03	97.71



l nr : 10  
on: 11\_12

Locality: MABOOMSPRUIT  
Plot size: 11.7 mS2T

Pod	Kernel	Shell	Total	Kernels above			Pan	Total	UBS	Un-	Choice	Stan-	Sundry	Chru	Splits		1	2	3	Kernel	Round		
				mass	g	500g									kernel	mass						g	500g
Akwa	6037	399	79.7	4814	14.1	50.9	81.5	91.9	3.6	1.2	8.8	7.7	1.2	85.2	0.0	10.6	4.25	2.75	11.58	88.42	0.00	538.71	94.13
Anel	5630	395	79.1	4452	1.9	37.0	70.5	82.2	3.0	1.0	8.5	5.3	0.9	75.3	0.0	21.3	3.45	13.45	11.36	88.64	0.00	528.30	91.32
PC 357 K1	6227	378	75.6	4710	5.6	44.9	76.6	87.6	3.9	1.4	10.5	8.3	1.4	79.6	0.0	15.3	5.15	6.10	24.18	74.73	1.10	570.36	75.90
PC 369 K2	5372	360	72.1	3872	26.1	63.3	87.6	97.1	2.5	0.3	12.2	12.2	0.2	85.9	0.0	12.9	1.30	0.10	28.00	72.00	0.00	559.65	91.64
Inkanyezi	2657	346	69.1	1837	2.3	34.5	70.0	86.6	5.7	2.6	6.8	5.2	1.3	82.6	0.0	10.1	7.30	3.60	32.17	67.83	0.00	453.40	97.38
Kwartz	5793	382	76.4	4428	0.6	29.0	71.7	92.6	3.2	0.6	12.5	10.7	1.4	80.8	0.0	16.5	2.70	3.15	26.04	73.96	0.00	500.27	92.97
PC 371 K1	6757	303	60.6	4096	0.9	52.8	88.0	97.3	2.2	0.4	10.1	7.8	0.2	88.3	0.0	10.2	1.50	0.10	33.33	66.67	0.00	516.18	92.84
PC 369 K3	6320	329	65.8	4159	15.9	63.0	87.2	98.2	1.6	0.1	5.3	4.5	0.0	92.9	0.0	6.9	0.20	0.00	21.05	77.89	1.05	536.61	93.99
Tufa	3877	397	79.4	3080	0.3	17.0	62.4	89.5	6.9	1.0	3.4	3.4	0.1	87.6	0.0	8.8	3.70	1.40	36.64	62.60	0.76	482.48	95.96
PC 299 K1	4043	330	66.0	2669	9.5	39.8	81.1	96.7	2.4	0.3	4.7	4.7	0.8	92.5	0.0	5.5	2.10	0.00	20.35	79.65	0.00	477.53	93.83
ARC-01e1c2	5040	289	57.9	2916	11.9	55.2	86.9	96.0	2.3	0.6	6.3	5.4	0.5	90.8	0.0	6.9	2.40	0.70	20.56	79.44	0.00	506.33	97.36
PC 338 K3	2960	382	76.3	2258	4.7	45.7	72.2	82.3	3.7	2.9	9.0	5.3	1.2	75.3	0.0	19.2	5.60	9.85	27.62	72.38	0.00	483.82	95.29
ARC-Opall	6113	351	70.1	4288	18.1	67.4	92.3	97.1	1.5	0.4	5.8	5.3	0.4	92.7	0.0	5.1	2.30	0.90	42.27	57.73	0.00	566.18	94.17
SA Juweel	4873	358	71.5	3484	23.1	52.5	75.0	88.3	5.3	1.4	11.1	10.4	5.8	80.0	0.0	11.2	8.80	3.90	14.29	85.71	0.00	580.92	84.54

l nr : 14  
on: 11\_12

Locality: DOUGLAS  
Plot size: 13.5 mS2T

Pod	Kernel	Shell	Total	Kernels above			Pan	Total	UBS	Un-	Choice	Stan-	Sundry	Chru	Splits		1	2	3	Kernel	Round		
				mass	g	500g									kernel	mass						g	500g
Akwa	3993	381	76.2	3041	7.5	40.0	76.5	87.1	1.6	2.7	1.1	1.1	0.0	86.0	0.0	11.2	2.90	8.50	8.79	91.21	0.00	498.85	95.70
Anel	4227	386	77.2	3261	1.7	23.6	64.5	88.7	7.0	2.2	2.1	1.5	0.4	87.1	0.0	9.6	3.20	1.80	20.83	79.17	0.00	491.41	89.20
PC 357 K1	3967	380	76.1	3018	4.1	34.7	77.5	91.5	3.9	0.7	1.3	1.1	0.0	90.4	0.0	8.8	0.90	3.85	30.43	69.57	0.00	559.63	79.51
PC 369 K2	3987	390	78.0	3111	3.1	32.8	73.9	93.1	3.7	1.5	1.0	0.5	0.3	92.2	0.0	5.6	2.15	1.50	17.78	82.22	0.00	504.61	82.93
Inkanyezi	4387	377	75.3	3304	2.0	22.2	62.2	83.4	4.3	1.2	2.0	1.5	0.6	82.3	0.0	15.0	2.75	10.95	23.97	76.03	0.00	442.18	97.35
Kwartz	3723	389	77.9	2899	2.8	27.2	72.2	92.3	4.0	1.7	1.9	1.4	0.7	90.7	0.0	6.4	2.90	1.55	14.89	85.11	0.00	508.26	88.71
PC 371 K1	5050	386	77.1	3895	7.4	43.7	80.2	95.0	1.7	1.6	1.8	1.4	0.8	93.7	0.0	3.8	2.50	1.60	33.64	66.36	0.00	496.08	88.77
PC 369 K3	5113	384	76.8	3925	4.7	37.1	77.6	93.4	2.7	1.9	1.0	0.4	0.0	92.7	0.0	4.8	2.55	1.80	12.50	87.50	0.00	499.20	93.32
Tufa	5200	365	72.9	3791	0.0	4.0	33.6	75.1	15.4	3.8	3.9	3.9	2.2	73.2	0.0	19.0	7.85	3.70	53.09	46.91	0.00	426.70	96.59
PC 299 K1	3273	383	76.6	2506	2.3	29.1	65.4	89.0	4.7	2.4	1.5	1.5	0.8	88.0	0.0	8.8	3.20	3.60	25.89	74.11	0.00	459.95	96.12
ARC-01e1c2	3943	392	78.4	3090	0.3	23.7	62.4	83.4	7.6	3.0	1.5	0.6	0.3	82.4	0.0	13.6	4.05	5.65	19.83	80.17	0.00	427.69	98.72
PC 338 K3	4543	373	74.5	3387	9.9	45.8	79.4	92.1	2.9	1.4	4.3	3.8	0.2	88.2	0.0	10.1	1.80	3.60	30.39	69.61	0.00	497.84	96.76
ARC-Opall	4022	373	74.6	3001	4.2	40.0	81.6	95.6	1.6	1.1	1.0	0.8	0.2	94.8	0.0	4.0	1.30	1.65	29.52	70.48	0.00	491.52	89.97
SA Juweel	2680	373	74.6	2000	3.8	30.1	70.3	88.6	2.8	0.9	2.2	1.4	0.4	86.6	0.0	12.0	1.45	7.40	31.58	68.42	0.00	503.41	94.89

l nr : 16  
 on: 11\_12

Locality: VAALHARTS  
 Plot size: 6 MS2T

Pod	Kernel mass	Kernel shell	Total kernel mass	Kernels above			Pan %	Total defec-	UBS %	Un- sound %	Choice mark %	Stan- dard market %	Sundry market %	Chru shing %	Splits		Kernel size	Round kernels %
				9	8.25	7.5									6.75	6		
2357	359	71.7	1690	3.5	34.3	69.9	78.9	1.9	2.5	0.2	73.6	0.0	22.4	4.05	16.45	23.58	492.81	95.63
3207	364	72.8	2334	9.5	38.8	68.0	77.1	3.2	2.2	1.0	71.3	0.0	23.6	5.10	16.50	24.21	558.70	92.39
2730	352	70.4	1921	5.5	29.1	66.8	74.8	3.5	3.8	1.4	63.0	0.0	30.8	6.30	19.00	24.75	564.53	76.60
2297	368	73.6	1690	1.3	35.8	68.1	77.9	3.9	1.6	0.3	71.4	0.0	24.8	3.85	16.05	22.09	517.28	94.02
2503	302	60.3	1511	1.8	16.5	57.7	81.3	4.4	2.2	0.4	78.8	0.0	17.3	4.00	11.65	71.22	425.39	97.91
2290	343	68.6	1570	0.0	2.1	25.4	58.2	7.2	2.6	2.4	49.2	0.0	44.7	6.20	30.95	40.29	409.51	98.59
2490	364	72.7	1811	0.3	19.1	47.1	57.9	2.6	2.6	1.7	51.4	0.0	43.1	5.50	36.10	23.81	465.06	97.99
3123	348	69.7	2176	3.5	34.7	67.6	75.7	3.5	2.0	0.6	66.2	0.0	30.2	3.65	18.25	20.79	511.15	96.62
3083	367	73.5	2265	0.0	9.5	49.0	87.3	6.7	2.5	0.5	85.4	0.0	10.9	3.80	3.05	35.29	461.90	94.97
3198	377	75.4	2411	0.2	17.0	54.2	81.9	3.6	1.9	0.3	75.9	0.0	20.9	3.25	12.20	26.50	433.07	98.41
2607	361	72.2	1881	4.2	26.4	65.0	82.3	5.0	1.4	0.6	79.3	0.0	17.5	3.20	10.85	24.75	471.35	97.13
2530	346	69.2	1752	0.9	28.0	61.0	73.1	3.6	6.0	1.3	68.6	0.0	25.3	6.15	19.25	21.70	475.90	96.42
2890	360	71.9	2078	1.4	26.0	59.0	66.3	1.6	3.8	1.5	61.2	0.0	20.8	18.10	15.20	26.00	404.27	98.17
2653	368	73.6	1953	1.4	21.0	55.5	73.7	4.1	3.2	1.7	69.3	0.0	24.3	6.50	17.20	28.57	508.28	97.59

Irrigated/ Not Sprayed

Trials

2011/12

Brits

Potchefstroom

Vaalharts

Table 28 The pod yield (kg/ha) of each cultivar at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Vaal harts	Mean
Akwa	4244.85	1927.98	4133.33	3435.39
Anel	4794.23	2579.54	5694.44	4356.07
PC 357 K1	4547.32	1975.30	5166.66	3896.43
PC 369 K2	5057.61	2380.65	5755.55	4397.94
Inkanyezi	5154.32	2465.02	3977.77	3865.70
Kwarts	5574.07	2520.57	4955.55	4350.06
PC 371 K1	5325.10	2049.38	4277.77	3884.08
PC 369 K3	5351.85	2427.98	5294.44	4358.09
Tufa	6026.74	2489.71	5144.44	4553.63
PC 299 K1	5611.11	2275.72	5194.44	4360.42
ARC-01eic2	4465.02	1921.81	4545.45	3644.09
PC 338 K3	5115.22	2263.37	5012.12	4130.24
ARC-0pa11	5370.37	1983.53	4571.68	3975.19
SA Juweel	5720.16	2430.04	3522.22	3890.81
Mean	5168.43	2263.61	4803.28	4078.44
LSD (5%)	1367	697	964	
CV	16	18	12	

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Irrigated/Not Sprayed trial 2011/12

Table 29 The kernel yield (kg/ha) of each cultivar at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Vaal harts	Mean
Akwa	3298.25	1366.94	2938.80	2534.66
Anel	3721.28	1871.71	4226.41	3273.13
PC 357 K1	3419.58	1280.39	3682.80	2794.26
PC 369 K2	3964.15	1752.16	4016.22	3244.18
Inkanyezi	3661.63	1552.96	2819.44	2678.01
Kwarts	4314.33	1900.51	3715.67	3310.17
PC 371 K1	4145.06	1494.00	2991.02	2876.69
PC 369 K3	4138.05	1784.08	3999.42	3307.18
Tufa	4644.21	1784.12	3690.62	3372.98
PC 299 K1	4142.12	1613.48	3811.68	3189.09
ARC-01eic2	3274.64	1175.76	3248.18	2566.19
PC 338 K3	3781.17	1506.95	3343.08	2877.07
ARC-0pa11	4182.44	1499.15	3237.66	2973.08
SA Juweel	4323.30	1750.60	2404.26	2826.05
Mean	3929.30	1595.20	3437.52	2987.34
LSD (5%)	1043	496	688	
CV	16	19	12	

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Table 30 Shelling percentage of the groundnut cultivars at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Vaal harts	Mean
Akwa	77.70	70.90	71.10	73.23
Anel	77.62	72.56	74.22	74.80
PC 357 K1	75.20	64.82	71.28	70.43
PC 369 K2	78.38	73.60	69.78	73.92
Inkanyezi	71.04	63.00	70.88	68.31
Kwarts	77.40	75.40	74.98	75.93
PC 371 K1	77.84	72.90	69.92	73.55
PC 369 K3	77.32	73.48	75.54	75.45
Tufa	77.06	71.66	71.74	73.49
PC 299 K1	73.82	70.90	73.38	72.70
ARC-01eic2	73.34	61.18	71.46	68.66
PC 338 K3	73.92	66.58	66.70	69.07
ARC-0pa11	77.88	75.58	70.82	74.76
SA Juweel	75.58	72.04	68.26	71.96
Mean	76.01	70.33	71.43	72.59

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Irrigated/Not Sprayed trial 2011/12

Table 31 Percentage (%) kernels on the 9.0 mm screen at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Vaal harts	Mean
Akwa	3.80	6.00	8.00	5.93
Anel	4.90	5.05	8.50	6.15
PC 357 K1	5.70	5.15	4.30	5.05
PC 369 K2	4.80	3.85	3.20	3.95
Inkanyezi	2.95	2.80	2.90	2.88
Kwarts	4.90	2.75	5.90	4.52
PC 371 K1	3.30	6.80	1.40	3.83
PC 369 K3	2.30	1.70	1.65	1.88
Tufa	0.30	0.00	13.15	4.48
PC 299 K1	2.70	1.40	1.25	1.78
ARC-01eic2	2.40	3.05	2.40	2.62
PC 338 K3	7.00	2.80	3.05	4.28
ARC-0pa11	2.65	4.30	8.85	5.27
SA Juweel	8.60	5.20	3.45	5.75
Mean	4.02	3.63	4.86	4.17

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Table 32 Percentage (%) kernels on the 8.25 mm screen at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Vaal harts	Mean
Akwa	32.40	36.50	31.85	33.58
Anel	28.60	32.05	44.25	34.97
PC 357 K1	36.80	34.00	34.85	35.22
PC 369 K2	29.40	35.20	35.40	33.33
Inkanyezi	20.30	20.50	22.80	21.20
Kwarts	27.10	25.70	32.75	28.52
PC 371 K1	36.40	35.70	19.15	30.42
PC 369 K3	31.85	33.55	35.05	33.48
Tufa	2.65	0.20	47.00	16.62
PC 299 K1	23.05	17.85	22.75	21.22
ARC-01eic2	27.45	20.20	30.60	26.08
PC 338 K3	42.00	33.20	35.05	36.75
ARC-0pa11	32.85	33.50	41.70	36.02
SA Juweel	38.40	28.75	24.05	30.40
Mean	29.23	27.64	32.66	29.84

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Irrigated/Not Sprayed trial 2011/12



Table 33 Percentage (%) kernels on the 7.5 mm screen at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Vaal harts	Mean
Akwa	79.55	66.40	63.45	69.80
Anel	78.60	62.75	75.30	72.22
PC 357 K1	76.55	65.05	71.80	71.13
PC 369 K2	78.40	73.80	74.45	75.55
Inkanyezi	69.20	57.50	53.85	60.18
Kwarts	71.80	67.30	61.40	66.83
PC 371 K1	80.50	73.45	52.60	68.85
PC 369 K3	75.70	75.05	72.45	74.40
Tufa	30.05	15.45	70.55	38.68
PC 299 K1	70.80	57.55	62.30	63.55
ARC-01eic2	67.40	54.45	67.55	63.13
PC 338 K3	81.80	66.95	71.35	73.37
ARC-0pa11	82.25	67.90	74.95	75.03
SA Juweel	77.20	62.90	65.40	68.50
Mean	72.84	61.89	66.96	67.23

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Table 34 Percentage (%) kernels on the 6.75 mm screen at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Vaal harts	Mean
Akwa	94.50	85.80	74.95	85.08
Anel	96.10	80.35	85.55	87.33
PC 357 K1	94.65	83.25	79.70	85.87
PC 369 K2	94.00	89.85	83.25	89.03
Inkanyezi	91.70	85.85	71.95	83.17
Kwarts	87.90	86.90	70.70	81.83
PC 371 K1	94.75	86.50	70.25	83.83
PC 369 K3	95.90	88.65	80.50	88.35
Tufa	79.00	52.10	78.00	69.70
PC 299 K1	91.50	82.50	84.10	86.03
ARC-01eic2	89.05	77.45	81.85	82.78
PC 338 K3	91.85	83.65	81.60	85.70
ARC-0pa11	95.20	83.50	81.20	86.63
SA Juweel	90.20	86.55	81.15	85.97
Mean	91.88	82.35	78.91	84.38

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Irrigated/Not Sprayed trial 2011/12

Table 35 Percentage (%) kernels on the 6.00 mm screen at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Vaal harts	Mean
Akwa	1.85	4.15	2.25	2.75
Anel	2.05	5.85	3.20	3.70
PC 357 K1	1.85	5.65	1.60	3.03
PC 369 K2	3.40	4.80	2.95	3.72
Inkanyezi	3.70	5.45	5.75	4.97
Kwartz	4.70	2.85	4.10	3.88
PC 371 K1	2.00	2.30	3.45	2.58
PC 369 K3	1.50	2.90	2.55	2.32
Tufa	13.50	13.40	3.00	9.97
PC 299 K1	4.25	8.30	4.35	5.63
ARC-01eic2	5.85	9.60	3.70	6.38
PC 338 K3	2.95	3.75	3.95	3.55
ARC-0pa11	1.85	4.85	1.10	2.60
SA Juweel	3.25	6.95	3.75	4.65
Mean	3.76	5.77	3.26	4.27

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Irrigated/Not Sprayed trial 2011/12

Table 36 Percentage (%) kernels in the pan at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Vaal harts	Mean
Akwa	0.40	1.10	2.20	1.23
Anel	0.90	3.55	2.10	2.18
PC 357 K1	0.55	1.55	1.70	1.27
PC 369 K2	0.85	1.15	1.25	1.08
Inkanyezi	0.75	1.25	5.15	2.38
Kwarts	0.80	0.85	3.05	1.57
PC 371 K1	0.65	1.20	3.30	1.72
PC 369 K3	0.40	0.75	1.90	1.02
Tufa	2.85	3.90	2.45	3.07
PC 299 K1	0.75	1.75	1.15	1.22
ARC-01eic2	1.95	4.90	3.70	3.52
PC 338 K3	0.35	1.65	2.25	1.42
ARC-0pa11	0.75	1.90	1.50	1.38
SA Juweel	0.95	1.55	1.35	1.28
Mean	0.92	1.93	2.36	1.74

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Irrigated/Not Sprayed trial 2011/12

Table 37 Percentage (%) splits at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Vaal harts	Mean
Akwa	2.80	7.60	19.60	10.00
Anel	0.70	6.85	8.45	5.33
PC 357 K1	2.45	7.70	16.35	8.83
PC 369 K2	1.50	3.35	11.75	5.53
Inkanyezi	3.15	5.90	15.90	8.32
Kwarts	5.75	9.10	20.50	11.78
PC 371 K1	2.20	7.20	22.20	10.53
PC 369 K3	1.90	7.30	14.65	7.95
Tufa	2.80	27.45	14.35	14.87
PC 299 K1	3.00	6.50	9.50	6.33
ARC-01eic2	2.90	5.80	9.15	5.95
PC 338 K3	4.30	9.70	11.35	8.45
ARC-0pa11	1.85	7.90	16.05	8.60
SA Juweel	5.40	4.00	12.00	7.13
Mean	2.91	8.31	14.41	8.54

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Irrigated/Not Sprayed trial 2011/12

Table 38 Percentage (%) unsound, blemished and soiled kernels in the edible grade at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Vaal harts	Mean
Akwa	2.37	5.87	4.86	4.37
Anel	2.58	14.26	5.06	7.30
PC 357 K1	4.85	6.53	6.42	5.93
PC 369 K2	3.79	8.46	5.37	5.87
Inkanyezi	3.59	5.86	4.53	4.66
Kwarts	3.86	3.44	2.54	3.28
PC 371 K1	1.01	7.75	3.63	4.13
PC 369 K3	1.91	6.45	2.10	3.49
Tufa	6.23	5.56	6.60	6.13
PC 299 K1	1.62	7.31	5.28	4.74
ARC-01eic2	4.40	10.08	5.66	6.71
PC 338 K3	1.81	9.99	5.69	5.83
ARC-0pa11	2.98	6.60	2.28	3.96
SA Juweel	3.54	10.36	3.76	5.89
Mean	3.18	7.75	4.56	5.16

MAKSIPLAN 2012

Irrigated/Not Sprayed trial 2011/12

Table 39 Percentage unsound kernels in the edible grade at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Vaal harts	Mean
Akwa	0.45	2.70	0.92	1.36
Anel	1.16	6.87	1.79	3.28
PC 357 K1	2.07	3.80	1.93	2.60
PC 369 K2	0.71	3.04	2.33	2.03
Inkanyezi	1.57	1.63	1.55	1.58
Kwarts	1.68	1.52	1.30	1.50
PC 371 K1	0.66	2.79	1.30	1.58
PC 369 K3	0.40	1.66	0.00	0.69
Tufa	1.41	2.28	3.87	2.52
PC 299 K1	0.46	1.13	3.15	1.58
ARC-01eic2	2.40	4.03	3.06	3.17
PC 338 K3	0.70	3.16	2.26	2.04
ARC-0pa11	0.86	2.51	1.07	1.48
SA Juweel	1.57	3.81	1.93	2.44
Mean	1.15	2.92	1.89	1.99

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Table 40 Percentage (%) defects in the edible grade at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Vaal harts	Mean
Akwa	3.98	7.14	9.62	6.92
Anel	2.83	15.46	9.36	9.22
PC 357 K1	5.20	8.02	11.46	8.23
PC 369 K2	4.75	10.04	12.61	9.13
Inkanyezi	5.01	7.28	6.35	6.21
Kwarts	5.28	4.80	7.84	5.97
PC 371 K1	1.61	8.41	8.87	6.30
PC 369 K3	3.12	7.56	5.48	5.38
Tufa	7.06	9.75	10.52	9.11
PC 299 K1	2.84	8.80	7.41	6.35
ARC-01eic2	4.40	11.03	6.54	7.32
PC 338 K3	2.72	9.99	9.79	7.50
ARC-0pa11	3.49	8.24	4.01	5.25
SA Juweel	5.77	11.02	5.64	7.48
Mean	4.15	9.11	8.25	7.17

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Irrigated/Not Sprayed trial 2011/12



Table 41 Percentage choice grade kernels at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Vaal harts	Mean
Akwa	90.65	80.20	67.70	79.52
Anel	93.45	0.00	77.90	57.12
PC 357 K1	89.50	77.40	69.40	78.77
PC 369 K2	89.45	82.00	72.40	81.28
Inkanyezi	87.45	80.05	67.00	78.17
Kwarts	83.60	82.80	65.65	77.35
PC 371 K1	93.35	81.35	62.40	79.03
PC 369 K3	93.05	81.95	76.25	83.75
Tufa	74.20	46.30	71.30	63.93
PC 299 K1	88.80	75.55	79.10	81.15
ARC-01eic2	85.15	70.75	77.60	77.83
PC 338 K3	90.05	0.00	73.75	54.60
ARC-0pa11	91.75	78.20	77.55	82.50
SA Juweel	84.70	78.15	77.40	80.08
Mean	88.22	65.34	72.53	75.36

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Irrigated/Not Sprayed trial 2011/12

Table 42 Percentage (%) standard grade kernels at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Vaal harts	Mean
Akwa	0.00	0.00	0.00	0.00
Anel	0.00	70.15	0.00	23.38
PC 357 K1	0.00	0.00	0.00	0.00
PC 369 K2	0.00	0.00	0.00	0.00
Inkanyezi	0.00	0.00	0.00	0.00
Kwarts	0.00	0.00	0.00	0.00
PC 371 K1	0.00	0.00	0.00	0.00
PC 369 K3	0.00	0.00	0.00	0.00
Tufa	0.00	0.00	0.00	0.00
PC 299 K1	0.00	0.00	0.00	0.00
ARC-01eic2	0.00	0.00	0.00	0.00
PC 338 K3	0.00	75.15	0.00	25.05
ARC-0pa11	0.00	0.00	0.00	0.00
SA Juweel	0.00	0.00	0.00	0.00
Mean	0.00	10.38	0.00	3.46

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Irrigated/Not Sprayed trial 2011/12

Table 43 Percentage (%) diverse grade kernels at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Vaal harts	Mean
Akwa	7.95	14.45	27.85	16.75
Anel	4.25	17.30	17.50	13.02
PC 357 K1	7.40	15.50	26.75	16.55
PC 369 K2	8.60	12.70	23.70	15.00
Inkanyezi	9.45	15.50	24.60	16.52
Kwarts	12.50	14.50	28.20	18.40
PC 371 K1	5.15	13.10	32.55	16.93
PC 369 K3	5.60	15.15	20.35	13.70
Tufa	18.45	43.85	20.60	27.63
PC 299 K1	9.40	19.80	15.05	14.75
ARC-01eic2	10.30	17.80	15.75	14.62
PC 338 K3	8.10	19.45	20.65	16.07
ARC-0pa11	6.30	15.55	19.75	13.87
SA Juweel	12.40	15.75	18.70	15.62
Mean	8.99	17.89	22.29	16.39

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Table 44 Percentage (%) crushing material at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Vaal harts	Mean
Akwa	1.40	5.35	4.45	3.73
Anel	2.30	12.55	4.60	6.48
PC 357 K1	3.10	7.10	3.85	4.68
PC 369 K2	1.95	5.30	3.90	3.72
Inkanyezi	3.10	4.45	8.40	5.32
Kwarts	3.90	2.70	6.15	4.25
PC 371 K1	1.50	5.55	5.05	4.03
PC 369 K3	1.35	2.90	3.40	2.55
Tufa	7.35	9.85	8.10	8.43
PC 299 K1	1.80	4.65	5.85	4.10
ARC-01eic2	4.55	11.45	6.65	7.55
PC 338 K3	1.85	5.40	5.60	4.28
ARC-0pa11	1.95	6.25	2.70	3.63
SA Juweel	2.90	6.10	3.90	4.30
Mean	2.79	6.40	5.19	4.79

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Irrigated/Not Sprayed trial 2011/12

Table 45 Percentage (%) 1-kernel pods at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Vaal harts	Mean
Akwa	17.44	30.10	20.62	22.72
Anel	6.49	27.18	16.30	16.66
PC 357 K1	23.81	36.29	28.57	29.56
PC 369 K2	7.59	28.21	29.13	21.64
Inkanyezi	13.04	32.35	46.15	30.52
Kwarts	10.26	27.10	27.96	21.77
PC 371 K1	18.37	31.09	16.67	22.04
PC 369 K3	17.58	26.61	24.75	22.98
Tufa	26.72	48.28	30.00	35.00
PC 299 K1	19.19	38.97	22.22	26.79
ARC-01eic2	14.74	38.36	22.73	25.27
PC 338 K3	7.69	31.31	37.82	25.61
ARC-0pa11	14.61	30.97	18.81	21.46
SA Juweel	16.67	22.34	26.26	21.76
Mean	15.30	32.08	26.28	24.56

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Table 46 Percentage (%) 2-kernel pods at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Vaal harts	Mean
Akwa	82.56	68.93	78.35	76.61
Anel	93.51	70.87	83.70	82.69
PC 357 K1	76.19	62.10	70.33	69.54
PC 369 K2	92.41	71.79	70.87	78.36
Inkanyezi	86.96	67.65	53.85	69.48
Kwarts	89.74	72.90	72.04	78.23
PC 371 K1	81.63	68.07	83.33	77.68
PC 369 K3	82.42	73.39	75.25	77.02
Tufa	73.28	51.72	70.00	65.00
PC 299 K1	80.81	61.03	76.85	72.90
ARC-01eic2	85.26	61.64	77.27	74.73
PC 338 K3	92.31	67.68	62.18	74.06
ARC-0pa11	85.39	69.03	81.19	78.54
SA Juweel	83.33	75.53	73.74	77.53
Mean	84.70	67.31	73.50	75.17

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Irrigated/Not Sprayed trial 2011/12

Table 47 Percentage (%) 3-Kernel pods at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Vaal harts	Mean
Akwa	0.00	0.97	1.03	0.67
Anel	0.00	1.94	0.00	0.65
PC 357 K1	0.00	1.61	1.10	0.90
PC 369 K2	0.00	0.00	0.00	0.00
Inkanyezi	0.00	0.00	0.00	0.00
Kwarts	0.00	0.00	0.00	0.00
PC 371 K1	0.00	0.84	0.00	0.28
PC 369 K3	0.00	0.00	0.00	0.00
Tufa	0.00	0.00	0.00	0.00
PC 299 K1	0.00	0.00	0.93	0.31
ARC-01eic2	0.00	0.00	0.00	0.00
PC 338 K3	0.00	1.01	0.00	0.34
ARC-0pa11	0.00	0.00	0.00	0.00
SA Juweel	0.00	2.13	0.00	0.71
Mean	0.00	0.61	0.22	0.28

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Table 48 Percentage (%) round kernels at the different localities, 2011/12

Cultivar	Brits	Pot chef stroom	Vaal harts	Mean
Akwa	95.52	95.62	77.59	89.58
Anel	87.29	92.88	89.03	89.73
PC 357 K1	84.19	88.55	83.33	85.36
PC 369 K2	87.71	95.03	90.54	91.09
Inkanyezi	98.03	97.12	96.02	97.06
Kwarts	93.94	93.73	91.27	92.98
PC 371 K1	93.80	96.28	97.71	95.93
PC 369 K3	89.33	95.21	96.90	93.81
Tufa	96.00	96.89	98.29	97.06
PC 299 K1	93.23	96.41	97.61	95.75
ARC-01eic2	95.39	95.92	97.75	96.35
PC 338 K3	97.43	97.87	97.37	97.56
ARC-0pa11	95.11	96.06	98.08	96.41
SA Juweel	94.04	94.92	96.65	95.20
Mean	92.93	95.18	93.44	93.85

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Irrigated/Not Sprayed trial 2011/12



Table 49 Grading tables for the irrigated/ not sprayed trial localities

Trial nr : 2  
 Locality: BRITS  
 Plot size: 16.2 mS2T  
 Season: 11\_12

CULT	Pod	Kernel	Shel	Total	Kernels above					Pan	Total	UBS	Un-	Choice	Stan-	Sundry	Chru	Splits	1		2		3		Kernel	Round		
					mass	ling	kernel	9	8.25										7.5	6.75	6	%	defec-	%			sound	%
1	Akwa	6877	389	77.7	5343	3.8	32.4	79.6	94.5	1.9	0.4	4.0	2.4	0.5	90.7	0.0	8.0	1.40	2.80	17.44	82.56	0.00	529.41	95.52				
2	Ane1	7767	388	77.6	6028	4.9	28.6	78.6	96.1	2.1	0.9	2.8	2.6	1.2	93.5	0.0	4.3	2.30	0.70	6.49	93.51	0.00	542.94	87.29				
3	PC 357 K1	7367	376	75.2	5540	5.7	36.8	76.6	94.7	1.9	0.6	5.2	4.9	2.1	89.5	0.0	7.4	3.10	2.45	23.81	76.19	0.00	575.38	84.19				
4	PC 369 K2	8193	392	78.4	6422	4.8	29.4	78.4	94.0	3.4	0.8	4.8	3.8	0.7	89.5	0.0	8.6	1.95	1.50	7.59	92.41	0.00	537.14	87.71				
5	Inkanyezi	8350	355	71.0	5932	3.0	20.3	69.2	91.7	3.7	0.8	5.0	3.6	1.6	87.5	0.0	9.5	3.10	3.15	13.04	86.96	0.00	451.72	98.03				
6	Kwarts	9030	387	77.4	6989	4.9	27.1	71.8	87.9	4.7	0.8	5.3	3.9	1.7	83.6	0.0	12.5	3.90	5.75	10.26	89.74	0.00	532.73	93.94				
7	PC 371 K1	8627	389	77.8	6715	3.3	36.4	80.5	94.8	2.0	0.7	1.6	1.0	0.7	93.4	0.0	5.2	1.50	2.20	18.37	81.63	0.00	510.78	93.80				
8	PC 369 K3	8670	387	77.3	6704	2.3	31.9	75.7	95.9	1.5	0.4	3.1	1.9	0.4	93.0	0.0	5.6	1.35	1.90	17.58	82.42	0.00	511.47	89.33				
9	Tufa	9763	385	77.1	7524	0.3	2.7	30.1	79.0	13.5	2.8	7.1	6.2	1.4	74.2	0.0	18.5	7.35	2.80	26.72	73.28	0.00	451.43	96.00				
10	PC 299 K1	9090	369	73.8	6710	2.7	23.1	70.8	91.5	4.3	0.8	2.8	1.6	0.5	88.8	0.0	9.4	1.80	3.00	19.19	80.81	0.00	476.56	93.23				
11	ARC-01e1c2	7233	367	73.3	5305	2.4	27.5	67.4	89.1	5.9	1.9	4.4	4.4	2.4	85.2	0.0	10.3	4.55	2.90	14.74	85.26	0.00	482.66	95.39				
12	PC 338 K3	8287	370	73.9	6126	7.0	42.0	81.8	91.9	3.0	0.3	2.7	1.8	0.7	90.1	0.0	8.1	1.85	4.30	7.69	92.31	0.00	524.86	97.43				
13	ARC-0pa11	8700	389	77.9	6776	2.7	32.8	82.3	95.2	1.9	0.8	3.5	3.0	0.9	91.8	0.0	6.3	1.95	1.85	14.61	85.39	0.00	517.39	95.11				
14	SA Juweel	9267	378	75.6	7004	8.6	38.4	77.2	90.2	3.3	1.0	5.8	3.5	1.6	84.7	0.0	12.4	2.90	5.40	16.67	83.33	0.00	565.52	94.04				

Trial nr : 4  
 Locality: POTCHEFSTROOM  
 Plot size: 16.2 mS2T

CULT	Pod	Kernel	Shel	Total	Kernels above					Pan	Total	UBS	Un-	Choice	Stan-	Sundry	Chru	Splits	1		2		3		Kernel	Round
					mass	ling	kernel	9	8.25										7.5	6.75	6	%	defec-	%		
1	Akwa	3123	355	70.9	2214	6.0	36.5	66.4	85.8	4.2	1.1	7.1	5.9	2.7	80.2	0.0	14.5	5.35	7.60	30.10	68.93	0.97	470.14	95.62		
2	Ane1	4179	363	72.6	3032	5.1	32.1	62.8	80.4	5.9	3.6	15.5	14.3	6.9	0.0	70.2	17.3	12.55	6.85	27.18	70.87	1.94	497.52	92.88		
3	PC 357 K1	3200	324	64.8	2074	5.2	34.0	65.1	83.3	5.7	1.5	8.0	6.5	3.8	77.4	0.0	15.5	7.10	7.70	36.29	62.10	1.61	501.51	88.55		
4	PC 369 K2	3857	368	73.6	2839	3.9	35.2	73.8	89.9	4.8	1.1	10.0	8.5	3.0	82.0	0.0	12.7	5.30	3.35	28.21	71.79	0.00	496.41	95.03		
5	Inkanyezi	3993	315	63.0	2516	2.8	20.5	57.5	85.9	5.5	1.3	7.3	7.3	1.6	80.1	0.0	15.5	4.45	5.90	32.35	67.65	0.00	412.74	97.12		
6	Kwarts	4083	377	75.4	3079	2.8	25.7	67.3	86.9	2.9	0.8	4.8	3.4	1.5	82.8	0.0	14.5	2.70	9.10	27.10	72.90	0.00	473.57	93.73		
7	PC 371 K1	3320	365	72.9	2420	6.8	35.7	73.5	86.5	2.3	1.2	8.4	7.8	2.8	81.4	0.0	13.1	5.55	7.20	31.09	68.07	0.84	460.11	96.28		
8	PC 369 K3	3933	367	73.5	2890	1.7	33.6	75.1	88.7	2.9	0.8	7.6	6.4	1.7	82.0	0.0	15.2	2.90	7.30	26.61	73.39	0.00	471.54	95.21		
9	Tufa	4033	358	71.7	2890	0.0	0.2	15.5	52.1	13.4	3.9	9.7	5.6	2.3	46.3	0.0	43.9	9.85	27.45	48.28	51.72	0.00	405.45	96.89		
10	PC 299 K1	3687	355	70.9	2614	1.4	17.9	57.6	82.5	8.3	1.8	8.8	7.3	1.1	75.6	0.0	19.8	4.65	6.50	38.97	61.03	0.00	423.08	96.41		
11	ARC-01e1c2	3113	306	61.2	1905	3.1	20.2	54.5	77.5	9.6	4.0	11.0	10.1	4.0	70.8	0.0	17.8	11.45	5.80	38.36	61.64	0.00	420.92	95.92		
12	PC 338 K3	3667	333	66.6	2441	2.8	33.2	67.0	83.7	3.8	1.7	10.0	10.0	3.2	0.0	75.2	19.5	5.40	9.70	31.31	67.68	1.01	444.95	97.87		
13	ARC-0pa11	3213	378	75.6	2429	4.3	33.5	67.9	83.5	4.9	1.9	8.2	6.6	2.5	78.2	0.0	15.6	6.25	7.90	30.97	69.03	0.00	470.42	96.06		
14	SA Juweel	3937	360	72.0	2836	5.2	28.8	62.9	86.6	7.0	1.6	11.0	10.4	3.8	78.2	0.0	15.8	6.10	4.00	22.34	75.53	2.13	462.83	94.92		

Trial nr : 17  
 Season: 11\_12

Locality: VAALHARTS  
 Plot size: 6 mS2T

CULT	Pod	Kernel	Shell	Total	Kernels above														Round						
					mass	g	9	8-25	7.5	6.75	6	Pan	Total	UBS	Un-	Choice	Stan-	Sundry		Chru	Splits	1	2	3	Kernel
	mass	500g	ling	kernel	mass	g	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
1	Akwa	2480	356	71.1	1763	8.0	31.9	63.5	75.0	2.3	2.2	9.6	4.9	0.9	67.7	0.0	27.9	4.45	19.60	20.62	78.35	1.03	501.34	77.59	
2	Anel	3417	371	74.2	2536	8.5	44.3	75.3	85.6	3.2	2.1	9.4	5.1	1.8	77.9	0.0	17.5	4.60	8.45	16.30	83.70	0.00	536.36	89.03	
3	PC 357 K1	3100	356	71.3	2210	4.3	34.8	71.8	79.7	1.6	1.7	11.5	6.4	1.9	69.4	0.0	26.8	3.85	16.35	28.57	70.33	1.10	565.25	83.33	
4	PC 369 K2	3453	349	69.8	2410	3.2	35.4	74.5	83.3	3.0	1.3	12.6	5.4	2.3	72.4	0.0	23.7	3.90	11.75	29.13	70.87	0.00	525.24	90.54	
5	Inkanyezi	2387	354	70.9	1692	2.9	22.8	53.9	72.0	5.8	5.2	6.3	4.5	1.5	67.0	0.0	24.6	8.40	15.90	46.15	53.85	0.00	440.06	96.02	
6	Kwates	2973	375	75.0	2229	5.9	32.8	61.4	70.7	4.1	3.0	7.8	2.5	1.3	65.7	0.0	28.2	6.15	20.50	27.96	72.04	0.00	514.18	91.27	
7	PC 371 K1	2567	350	69.9	1795	1.4	19.2	52.6	70.3	3.5	3.3	8.9	3.6	1.3	62.4	0.0	32.6	5.05	22.20	16.67	83.33	0.00	459.15	97.71	
8	PC 369 K3	3177	378	75.5	2400	1.7	35.1	72.5	80.5	2.6	1.9	5.5	2.1	0.0	76.3	0.0	20.4	3.40	14.65	24.75	75.25	0.00	555.17	96.90	
9	Tufa	3087	359	71.7	2214	13.2	47.0	70.6	78.0	3.0	2.4	10.5	6.6	3.9	71.3	0.0	20.6	8.10	14.35	30.00	70.00	0.00	534.25	98.29	
10	PC 299 K1	3117	367	73.4	2287	1.3	22.8	62.3	84.1	4.4	1.2	7.4	5.3	3.1	79.1	0.0	15.1	5.85	9.50	22.22	76.85	0.93	447.34	97.61	
11	ARC-01etc2	2727	357	71.5	1949	2.4	30.6	67.6	81.9	3.7	3.7	6.5	5.7	3.1	77.6	0.0	15.8	6.65	9.15	22.73	77.27	0.00	461.13	97.75	
12	PC 338 K3	3007	334	66.7	2006	3.1	35.1	71.4	81.6	4.0	2.3	9.8	5.7	2.3	73.8	0.0	20.7	5.60	11.35	37.82	62.18	0.00	477.19	97.37	
13	ARC-Opal1	2743	354	70.8	1943	8.9	41.7	75.0	81.2	1.1	1.5	4.0	2.3	1.1	77.6	0.0	19.8	2.70	16.05	18.81	81.19	0.00	446.15	98.08	
14	SA Juweel	2113	341	68.3	1443	3.5	24.1	65.4	81.2	3.8	1.3	5.6	3.8	1.9	77.4	0.0	18.7	3.90	12.00	26.26	73.74	0.00	494.82	96.65	