

TABLE 4: COMPARISON OF WEIGHTED AVERAGE RESULTS OF THE MAIN MAIZE PRODUCING PROVINCES

Maize class	White maize				Yellow maize				
	North West Regions 12 - 20	Free State Regions 21 - 28	Mpumalanga Regions 29 - 33	North West Regions 12 - 20	Free State Regions 21 - 28	Mpumalanga Regions 29 - 33	North West Regions 12 - 20	Free State Regions 21 - 28	Mpumalanga Regions 29 - 33
Production region									
Defective kernels above the 6.35 mm round-hole sieve, %	1.2	0.8	1.3	2.1	1.2	1.9	2.1	1.2	1.9
Defective kernels below the 6.35 mm round-hole sieve, %	2.7	2.4	2.0	5.0	3.8	2.8	5.0	3.8	2.8
Total defective kernels, %	3.9	3.2	3.3	7.1	5.0	4.8	7.1	5.0	4.8
Combined deviations, %	4.4	3.4	3.6	7.7	5.2	5.0	7.7	5.2	5.0
Test weight, kg/ha	76.4	76	76.2	75.9	74.8	75.7	75.9	74.8	75.7
100 kernel mass, g	30.3	32.4	31	28.3	26.9	28.9	28.3	26.9	28.9
Kernel size above 10 mm sieve, %	17.7	26.2	13.8	4.4	5.0	7.6	4.4	5.0	7.6
Kernel size below 8 mm sieve, %	22.2	14.9	20.2	42.3	40.4	33.5	42.3	40.4	33.5
Breakage susceptibility (below the 6.35 mm sieve), %	0.8	1.0	0.9	1.2	1.3	1.0	1.2	1.3	1.0
Stress cracks, %	3	4	4	4	5	4	4	5	4
Milling index	76	71	72	79	76	77	79	76	77
Number of samples	162	145	152	53	99	227	53	99	227
Fat, %	4.0	3.9	3.8	4.0	3.8	3.9	4.0	3.8	3.9
Protein, %	9.2	9.0	8.7	9.3	9.5	9.5	9.3	9.5	9.5
Starch, %	74.0	74.4	74.2	73.7	73.4	73.0	73.7	73.4	73.0
Crude fibre, %	2.2	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2
Number of samples	162	145	152	53	99	227	53	99	227
Total extraction, % (Roff mill)	75.4	76.2	75.2	-	-	-	-	-	-
Whiteness index, unsifted	40.6	40.7	40.3	-	-	-	-	-	-
Whiteness index, sifted	38.6	38.6	38.3	-	-	-	-	-	-
Number of samples	86	41	94	-	-	-	-	-	-
Total extraction, % (Bühler MCKA mill)	80.6	78.6	76.4	-	-	-	-	-	-
Whiteness index, unsifted	17.0	20.7	20.0	-	-	-	-	-	-
Whiteness index, sifted	15.3	19.1	18.3	-	-	-	-	-	-
Number of samples	161	145	152	-	-	-	-	-	-