

TABLE 4: COMPARISON OF WEIGHTED AVERAGE RESULTS OF THE MAIN MAIZE PRODUCING PROVINCES 2024/25						
Maize class	White maize			Yellow maize		
Production region	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
Defective kernels above the 6.35 mm round-hole sieve, %	4.8	5.4	3.8	5.1	5.0	4.9
Defective kernels below the 6.35 mm round-hole sieve, %	1.4	1.5	1.4	3.4	2.2	1.8
Total defective kernels, %	6.2	6.9	5.2	8.5	7.1	6.7
Combined deviations, %	6.5	7.2	5.9	9.1	7.3	6.9
Test weight, kg/hl	76.9	77.1	76.3	75.2	75.5	75.8
100 kernel mass, g	37.2	37.7	36	33.9	33.2	33.9
Kernel size above 10 mm sieve, %	33.5	34.0	21.2	6.7	11.4	15
Kernel size below 8 mm sieve, %	8.0	8.2	12.3	28.1	24	21.4
Breakage susceptibility (below the 6.35 mm sieve), %	0.9	1.0	1.0	1.7	0.9	0.9
Stress cracks, %	3	5	5	4	4	4
Milling index	78	79	76	67	73	74
Number of samples	67	156	184	18	201	208
Fat, %	4.0	4.0	4.0	3.9	4.0	4.0
Protein, %	9.2	9.2	8.6	8.8	8.9	8.9
Starch, %	73.8	73.6	74.4	73.7	73.3	73.4
Crude fibre, %	2.2	2.2	2.1	2.3	2.2	2.2
Number of samples	67	156	184	18	201	208
Total extraction, % (Roff mill)	76.5	76.9	75.9	-	-	-
Whiteness index, unsifted	30.0	31.2	30.9	-	-	-
Whiteness index, sifted	27.6	29.3	28.7	-	-	-
Number of samples	42	73	71	-	-	-
Total extraction, % (Bühler MCKA mill)	80	78.8	75.4	-	-	-
Whiteness index, unsifted	13.8	13.9	14.8	-	-	-
Whiteness index, sifted	12.8	12.8	13.4	-	-	-
Number of samples	66	155	184	-	-	-