

TABLE 12: PHYSICAL QUALITY CHARACTERISTICS OF WHITE MAIZE ACCORDING TO GRADE (2017/2018)

Number of samples	Region	Test weight (kg/ht)			100 kernel mass (g)			Kernel size (%)						Breakage susceptibility (%)						Stress cracks (%)			SAGL Milling index 2018			GVA					
		ave.	min.	max.	ave.	min.	max.	Above 10 mm sieve		Above 8 mm sieve		Below 8 mm sieve		< 6.35 mm sieve		< 4.75 mm sieve		ave.	min.	max.	ave.	min.	max.	ave.	min.	max.					
								ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.										min.	max.			
GRADE: WM1																															
4	Region 11	80.8	80.6	81.2	37.7	32.3	45.8	22.5	5.3	39.0	61.7	56.8	68.1	15.8	4.2	26.6	0.7	0.3	1.1	0.5	0.3	0.9	6	4	8	84.8	79.8	91.9	65.9	64.7	67.7
14	Region 12	76.9	69.0	79.1	34.5	21.9	39.3	37.6	12.8	52.1	54.9	44.8	69.0	7.5	3.1	18.2	0.9	0.4	2.7	0.6	0.1	1.5	13	7	28	77.0	47.9	90.6	64.1	57.0	67.4
20	Region 13	75.9	71.2	77.9	34.2	27.6	41.4	26.3	13.5	42.2	63.2	54.5	72.3	10.5	2.5	24.1	1.0	0.3	2.4	0.8	0.2	1.7	11	5	26	75.5	68.3	89.1	63.7	62.0	67.0
33	Region 14	77.4	75.3	80.9	33.7	27.1	40.9	29.5	11.2	49.6	61.5	46.9	71.8	9.0	3.5	17.0	1.1	0.4	2.4	0.9	0.3	2.0	12	5	30	80.4	65.2	98.6	64.9	61.2	69.3
7	Region 15	78.6	77.8	79.3	36.2	34.6	39.4	40.0	32.2	58.7	54.8	39.8	64.2	5.2	1.5	8.7	0.9	0.5	1.4	0.7	0.3	1.3	10	6	14	81.5	73.9	89.4	65.1	63.3	67.0
6	Region 16	77.5	76.3	78.6	34.7	32.5	39.2	31.1	23.0	50.4	59.8	44.3	66.8	9.1	5.3	11.4	0.7	0.4	1.0	0.6	0.4	0.8	9	5	15	80.7	71.6	88.9	65.0	62.7	66.9
25	Region 17	76.7	68.9	79.4	35.3	22.8	39.7	31.9	8.8	53.8	59.5	41.1	78.0	8.6	4.4	30.7	0.8	0.0	2.2	0.6	0.0	1.6	11	4	23	75.6	48.9	93.2	63.7	57.2	68.0
14	Region 18	77.5	75.2	79.0	33.4	26.6	37.3	24.2	2.8	52.4	62.5	45.4	75.0	13.3	2.2	31.2	1.3	0.3	2.2	1.0	0.1	1.6	11	5	15	77.6	69.1	86.5	64.2	62.2	66.4
23	Region 19	77.9	75.8	80.8	35.6	29.4	43.0	28.7	12.9	44.2	62.7	51.4	75.3	8.6	2.8	15.7	0.6	0.1	1.4	0.4	0.0	1.0	8	2	13	80.1	68.9	90.1	64.8	62.1	67.2
9	Region 20	76.5	75.0	79.3	35.1	32.1	37.1	28.0	15.8	36.2	64.2	56.9	72.9	7.8	4.5	11.3	0.8	0.0	1.4	0.6	0.0	1.1	10	6	16	73.6	64.7	88.3	63.2	61.1	66.8
11	Region 21	78.1	75.9	81.0	36.5	30.3	43.3	33.6	18.5	39.5	59.7	55.4	68.7	6.8	1.9	13.5	0.8	0.1	1.8	0.6	0.0	1.3	8	4	12	81.8	69.9	102.1	65.2	62.3	70.1
7	Region 22	77.9	75.3	79.6	35.8	34.4	37.1	31.9	20.4	45.2	62.3	50.9	72.2	5.8	3.0	7.8	1.1	0.6	1.8	0.9	0.6	1.6	10	6	15	83.5	74.7	88.6	65.6	63.5	66.9
11	Region 23	78.5	76.9	80.6	36.4	33.0	39.0	39.0	30.2	52.4	55.1	42.8	60.3	5.9	3.2	10.5	1.0	0.3	2.1	0.7	0.2	1.6	9	3	14	83.3	72.3	93.1	65.6	62.9	67.9
12	Region 24	77.0	73.9	80.1	33.7	30.3	37.7	27.7	8.7	45.3	62.5	51.8	71.4	9.9	2.9	23.6	1.3	0.1	2.9	1.0	0.0	1.9	11	6	23	79.5	69.1	95.5	64.6	62.1	68.5
6	Region 26	72.4	71.6	74.9	32.5	31.3	34.0	19.9	15.0	29.8	69.7	61.9	73.0	10.4	8.3	12.0	1.0	0.6	1.2	0.7	0.4	1.0	11	9	14	44.7	32.0	60.3	56.3	53.2	60.0
3	Region 27	77.5	73.0	80.1	32.5	31.1	35.1	21.7	18.6	26.6	65.0	62.7	67.1	13.3	8.2	17.4	0.4	0.3	0.4	0.2	0.2	0.3	6	5	8	79.3	64.8	89.1	64.6	61.2	67.0
13	Region 28	79.5	77.9	81.7	34.9	32.0	37.8	19.0	5.4	34.3	68.0	58.1	77.4	13.1	5.9	21.5	0.8	0.3	1.4	0.6	0.2	1.3	9	5	15	81.7	62.4	93.4	65.2	60.5	68.0
14	Region 29	78.3	74.8	80.9	35.6	31.1	41.5	19.1	1.5	34.6	65.8	57.0	76.0	15.1	7.3	26.7	1.0	0.2	2.3	0.7	0.2	1.7	9	3	22	85.2	72.8	98.8	66.0	63.0	69.3
18	Region 30	76.9	71.2	78.6	34.1	29.5	37.2	23.1	8.7	49.1	64.5	43.9	76.7	12.4	7.0	20.0	1.0	0.2	3.8	0.6	0.2	2.4	10	2	29	81.8	74.1	91.0	65.2	63.3	67.5
9	Region 31	78.7	74.9	80.5	34.2	29.5	37.9	17.9	3.4	37.5	67.5	50.4	83.7	14.6	6.6	23.7	0.8	0.1	1.8	0.6	0.1	1.2	7	2	14	79.0	61.6	89.0	64.5	60.4	67.0
25	Region 32	77.6	73.6	80.1	33.7	29.6	36.9	19.9	2.5	36.6	64.6	57.2	76.8	15.4	5.9	32.1	1.0	0.1	2.6	0.7	0.1	1.9	10	3	25	80.9	72.9	96.6	65.0	63.0	68.8
21	Region 33	77.6	74.9	79.6	33.5	29.4	37.3	19.1	7.1	38.2	66.1	49.9	75.8	14.8	5.8	23.2	0.6	0.0	1.1	0.3	0.0	1.0	7	2	14	78.2	65.0	99.2	64.3	61.1	69.4
30	Region 34	77.5	73.9	80.2	35.5	30.4	42.3	24.3	4.5	53.4	63.2	40.4	72.1	12.4	3.6	31.2	0.8	0.2	2.0	0.6	0.1	1.3	8	1	18	80.2	63.0	94.5	64.8	60.7	68.3
6	Region 35	78.3	76.5	79.8	34.3	27.3	43.8	18.9	3.4	51.2	66.1	43.0	73.7	15.0	5.8	27.2	0.6	0.2	0.7	0.5	0.2	0.7	7	4	12	84.4	78.7	91.1	65.9	64.5	67.5
11	Region 36	78.4	76.3	80.9	34.5	28.9	39.6	16.3	3.8	48.8	66.0	49.6	74.6	17.7	1.6	31.1	0.8	0.0	1.8	0.6	0.0	1.2	10	1	22	83.9	76.3	92.6	65.7	63.9	67.9
352	Ave. WM1	77.5	68.9	81.7	34.6	21.9	45.8	26.1	1.5	58.7	62.8	39.8	83.7	11.2	1.5	32.1	0.9	0.0	3.8	0.7	0.0	2.4	10	1	30	79.3	32.0	102.1	64.6	53.2	70.1

TABLE 12: PHYSICAL QUALITY CHARACTERISTICS OF WHITE MAIZE ACCORDING TO GRADE (2017/2018)
(continue)

Number of samples	Region	Test weight (kg/ha)			100 kernel mass (g)			Above 10 mm sieve			Kernel size (%)			Below 8 mm sieve			Breakage susceptibility (%)			Stress cracks (%)			SAGL Milling index 2018			GYA					
		ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.			
GRADE: WM2																															
3	Region 13	75.5	74.7	76.0	30.3	28.2	31.7	21.0	16.9	25.7	65.1	62.8	68.6	13.9	11.5	15.8	1.2	1.1	1.5	0.9	0.7	1.2	16	14	19	74.9	71.2	78.8	63.5	62.6	64.5
3	Region 14	72.9	70.9	75.3	26.8	22.1	33.6	21.9	14.2	35.1	64.5	57.0	70.0	13.5	7.9	16.9	2.3	1.0	3.2	1.7	0.9	2.4	19	8	27	60.2	52.8	72.2	59.9	58.1	62.9
7	Region 15	75.9	72.3	77.9	30.8	25.7	33.8	32.9	24.1	41.0	59.5	53.2	64.9	7.6	5.5	11.0	1.4	1.0	2.0	1.0	0.7	1.3	13	8	28	74.2	62.4	83.5	63.4	60.5	65.6
9	Region 16	76.5	73.1	78.3	35.6	28.6	40.5	34.7	20.9	44.0	57.2	52.4	69.7	8.1	2.7	19.9	1.4	0.4	3.5	1.1	0.3	2.7	14	3	29	76.6	67.9	84.2	64.0	61.8	65.8
2	Region 17	77.5	76.8	78.2	35.4	33.8	36.9	25.5	21.6	29.3	66.0	62.5	69.4	8.6	8.2	9.0	0.8	0.8	0.8	0.6	0.5	0.7	11	8	14	81.1	78.4	83.7	65.0	64.4	65.7
1	Region 18	76.9	-	-	31.8	-	-	28.0	-	-	61.6	-	-	10.4	-	-	0.7	-	-	0.3	-	-	11	-	-	74.7	-	-	63.5	-	-
5	Region 19	76.3	75.3	77.2	34.8	32.4	36.3	35.2	21.3	45.1	55.8	49.9	64.2	9.1	5.0	14.5	1.0	0.4	1.9	0.7	0.3	1.0	12	5	19	76.3	66.2	80.5	63.9	61.4	64.9
3	Region 20	74.4	69.9	78.5	31.8	24.0	42.0	27.4	9.6	57.1	60.1	41.3	69.8	12.6	1.6	20.6	2.1	1.0	3.8	1.3	0.7	2.5	13	10	17	69.3	53.8	81.1	62.2	58.4	65.0
1	Region 21	79.8	-	-	34.4	-	-	21.7	-	-	69.4	-	-	8.9	-	-	0.4	-	-	0.3	-	-	5	-	-	95.1	-	-	68.4	-	-
2	Region 22	76.8	76.5	77.0	34.8	34.2	35.3	37.1	36.4	37.8	57.8	57.4	58.1	5.2	4.8	5.5	0.6	0.4	0.7	0.3	0.2	0.4	10	8	12	77.2	76.5	77.9	64.1	63.9	64.3
4	Region 23	76.2	72.8	77.7	33.3	30.6	35.5	33.7	24.9	42.9	59.2	50.8	67.3	7.1	6.3	7.8	1.9	1.4	3.0	1.4	0.9	2.5	14	8	18	73.9	68.6	81.3	63.3	62.0	65.1
5	Region 24	75.7	74.9	76.6	33.9	31.1	35.9	30.1	26.7	36.1	62.8	58.3	68.2	7.1	4.9	9.8	2.4	1.8	3.0	1.7	1.3	2.2	21	9	27	74.3	67.3	82.1	63.4	61.7	65.3
4	Region 26	75.8	71.9	78.2	32.7	31.2	34.2	22.7	14.4	28.6	66.6	61.9	75.8	10.8	9.5	12.5	1.0	0.5	2.5	0.6	0.3	1.3	12	6	26	64.7	44.0	82.6	61.1	56.1	65.4
1	Region 28	76.6	-	-	35.7	-	-	39.2	-	-	55.8	-	-	5.0	-	-	2.0	-	-	1.6	-	-	4	-	-	72.8	-	-	63.0	-	-
1	Region 29	76.0	-	-	35.7	-	-	10.7	-	-	73.2	-	-	16.1	-	-	2.4	-	-	2.1	-	-	15	-	-	70.2	-	-	62.4	-	-
3	Region 30	77.6	76.7	78.1	31.7	30.9	32.4	12.9	4.0	17.6	69.3	65.7	72.6	17.9	13.5	23.4	0.7	0.4	1.2	0.5	0.3	0.8	4	4	5	79.3	72.4	83.1	64.6	63.0	65.5
3	Region 32	76.1	74.2	78.3	35.2	27.6	41.4	20.7	12.0	34.6	67.6	62.6	74.7	11.7	2.8	18.9	1.8	1.5	2.1	1.2	0.8	1.6	16	13	18	86.1	80.2	89.4	66.3	64.8	67.0
2	Region 33	76.9	76.7	77.0	31.4	29.0	33.8	13.5	8.7	18.2	70.6	69.3	71.9	16.0	9.9	22.0	0.2	0.1	0.3	0.2	0.1	0.3	9	7	10	70.3	64.4	76.3	62.4	61.0	63.9
7	Region 34	74.1	73.3	76.7	38.1	36.0	41.3	28.6	13.9	45.5	62.7	51.1	74.4	8.7	3.4	13.9	1.6	0.7	2.4	1.2	0.6	1.9	18	9	24	86.7	83.1	89.9	66.4	65.5	67.1
2	Region 35	76.2	75.3	77.0	36.3	33.9	38.7	22.5	12.9	32.1	65.9	57.9	73.9	11.6	10.0	13.2	2.0	0.9	3.0	1.4	0.8	2.0	19	8	30	83.6	78.2	89.0	65.6	64.3	66.9
3	Region 36	77.2	76.9	77.5	35.3	32.7	40.2	21.8	13.5	29.3	66.4	59.9	73.0	11.7	10.8	13.5	1.4	0.9	1.8	1.0	0.6	1.5	11	8	16	83.3	79.6	87.0	65.6	64.7	66.5
71	Ave. WM2	75.9			33.8			27.7	4.0	57.1	62.3	41.3	75.8	9.9	1.6	23.4	1.5	0.1	3.8	1.1	0.1	2.7	14	3	30	76.3	44.0	95.1	63.9	56.1	68.4
	Min. WM2	69.9			22.1			4.0		57.1	41.3	75.8	9.9	1.6	23.4	1.5	0.1	3.8	1.1	0.1	2.7	14	3	30	76.3	44.0	95.1	63.9	56.1	68.4	
	Max. WM2	79.8			42.0			57.1		57.1	41.3	75.8	9.9	1.6	23.4	1.5	0.1	3.8	1.1	0.1	2.7	14	3	30	76.3	44.0	95.1	63.9	56.1	68.4	

TABLE 12: PHYSICAL QUALITY CHARACTERISTICS OF WHITE MAIZE ACCORDING TO GRADE (2017/2018)
(continue)

Number of samples	Region	Test weight (kg/ha)			100 kernel mass (g)			Kernel size (%)						Breakage susceptibility (%)						Stress cracks (%)			SAGL Milling index 2018			GYA					
		ave.	min.	max.	ave.	min.	max.	Above 10 mm sieve	Above 8 mm sieve	Below 8 mm sieve	< 6.35 mm sieve	< 4.75 mm sieve	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.				
GRADE: WM3																															
1	Region 12	75.6	-	-	34.0	-	-	30.8	-	-	63.8	-	-	5.4	-	-	1.1	-	-	0.8	-	-	18	-	-	84.5	-	-	65.9	-	-
1	Region 13	75.2	-	-	33.5	-	-	11.6	-	-	67.5	-	-	20.9	-	-	1.8	-	-	1.3	-	-	18	-	-	81.2	-	-	65.1	-	-
2	Region 14	65.8	63.7	67.8	19.7	18.3	21.0	7.6	6.5	8.7	65.6	65.3	65.8	26.9	25.5	28.2	2.0	1.1	2.8	1.6	0.8	2.4	17	13	20	34.6	26.5	42.8	53.7	51.7	55.7
1	Region 15	73.7	-	-	28.8	-	-	30.2	-	-	59.9	-	-	9.9	-	-	2.8	-	-	1.9	-	-	20	-	-	69.8	-	-	62.2	-	-
6	Region 16	75.6	72.3	77.5	34.3	32.0	37.5	27.4	13.3	34.9	64.2	57.4	74.8	8.5	3.8	11.9	1.4	0.4	2.7	1.0	0.3	1.8	14	8	22	75.0	65.6	84.7	63.6	61.3	65.9
1	Region 17	73.5	-	-	32.9	-	-	14.0	-	-	72.9	-	-	13.1	-	-	1.7	-	-	1.2	-	-	14	-	-	64.4	-	-	61.0	-	-
1	Region 18	75.7	-	-	31.1	-	-	18.7	-	-	67.9	-	-	13.4	-	-	1.8	-	-	0.9	-	-	11	-	-	68.8	-	-	62.0	-	-
1	Region 20	70.8	-	-	26.8	-	-	29.3	-	-	61.5	-	-	9.2	-	-	2.6	-	-	1.7	-	-	18	-	-	53.7	-	-	58.3	-	-
1	Region 22	76.4	-	-	35.1	-	-	41.1	-	-	53.0	-	-	5.9	-	-	2.1	-	-	1.4	-	-	16	-	-	66.1	-	-	61.4	-	-
1	Region 23	75.7	-	-	33.0	-	-	40.9	-	-	53.2	-	-	5.9	-	-	1.1	-	-	0.8	-	-	11	-	-	72.4	-	-	62.9	-	-
1	Region 31	78.5	-	-	36.1	-	-	35.6	-	-	55.1	-	-	9.3	-	-	0.7	-	-	0.5	-	-	8	-	-	77.0	-	-	64.1	-	-
1	Region 32	78.5	-	-	30.2	-	-	9.0	-	-	72.8	-	-	18.2	-	-	0.7	-	-	0.5	-	-	11	-	-	74.8	-	-	63.5	-	-
4	Region 33	72.5	63.4	75.7	33.0	31.6	35.5	18.5	7.0	30.9	66.2	60.0	73.1	15.4	6.9	19.9	0.7	0.3	1.4	0.4	0.2	0.9	15	8	30	73.7	68.1	78.3	63.2	61.9	64.4
1	Region 35	75.5	-	-	36.7	-	-	46.7	-	-	46.8	-	-	6.5	-	-	1.8	-	-	1.2	-	-	6	-	-	92.9	-	-	67.9	-	-
23	Ave. WM3	74.1			32.0			24.4			63.3			12.3			1.4			1.0			14			70.4			62.4		
	Min. WM3	63.4			18.3			6.5			46.8			3.8			0.3			0.2			6			26.5			51.7		
	Max. WM3	78.5			37.5			46.7			74.8			28.2			2.8			2.4			30			92.9			67.9		
CLASS: COM																															
1	Region 13	75.5	-	-	34.9	-	-	39.9	-	-	54.2	-	-	5.9	-	-	2.2	-	-	1.3	-	-	17	-	-	70.3	-	-	62.4	-	-
2	Region 18	72.4	69.1	75.7	32.0	31.6	32.3	19.7	12.7	26.7	68.4	60.3	76.5	11.9	10.8	13.0	0.8	0.1	1.5	0.4	0.0	0.8	8	5	11	62.0	52.3	71.8	60.4	58.1	62.7
1	Region 20	74.4	-	-	28.0	-	-	13.8	-	-	71.1	-	-	15.1	-	-	1.8	-	-	1.5	-	-	15	-	-	70.5	-	-	62.5	-	-
1	Region 21	80.7	-	-	36.6	-	-	13.6	-	-	76.5	-	-	9.9	-	-	0.3	-	-	0.3	-	-	6	-	-	108.0	-	-	71.6	-	-
5	Ave. COM	75.1			32.7			21.3			67.7			10.9			1.2			0.8			11			74.6			63.5		
	Min. COM	69.1			28.0			12.7			54.2			5.9			0.1			0.0			5			52.3			58.1		
	Max. COM	80.7			36.6			39.9			76.5			15.1			2.2			1.5			17			108.0			71.6		
451 Ave. white maize																															
	Min. white maize	77.0			34.3			26.2			62.8			11.0			1.0			0.7			11			78.3			64.4		
	Max. white maize	81.7			45.8			58.7			83.7			32.1			3.8			2.7			30			108.0			71.6		
900 Ave. maize																															
	Min. maize	77.1			32.9			18.7			64.7			16.6			1.0			0.7			10			78.9			64.5		
	Max. maize	82.5			45.8			72.4			83.7			62.0			4.7			3.3			38			108.0			71.6		