

TABLE 12: PHYSICAL QUALITY FACTORS OF WHITE MAIZE ACCORDING TO GRADE (2016/2017)

Number of samples	Region	Test weight (kg/ht)			100 kernel mass (g)			Kernel size (%)						Breakage susceptibility (%)						Stress cracks (%)			SAGL Milling index 2017			GVA					
		ave.	min.	max.	ave.	min.	max.	Above 10 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.	ave.	min.	max.
GRADE: WM1																															
2	Region 10	79.6	79.4	79.7	41.5	41.0	41.9	7.9	7.1	8.6	77.1	75.8	78.4	15.1	14.5	15.6	0.4	0.4	0.4	0.2	0.1	0.2	6	5	7	100.2	99.2	101.1	69.7	69.5	69.9
1	Region 11	79.5	-	-	35.6	-	-	2.1	-	-	62.9	-	-	35.0	-	-	1.5	-	-	1.1	-	-	7	-	-	88.0	-	-	66.7	-	-
13	Region 12	77.5	75.5	79.7	33.2	29.4	36.1	20.9	8.7	32.1	67.4	60.3	77.5	11.7	6.0	21.3	1.0	0.7	1.5	0.8	0.2	1.1	9	1	18	77.4	68.7	82.0	64.2	62.1	65.3
20	Region 13	75.7	73.6	78.5	32.1	27.9	40.0	12.6	3.0	48.9	65.9	48.8	72.8	21.5	2.3	35.5	1.6	0.3	4.0	1.2	0.3	2.8	8	1	17	72.4	50.5	96.0	62.9	57.7	68.7
30	Region 14	77.5	76.5	78.5	32.3	28.6	36.2	20.6	6.7	34.9	64.6	58.3	74.3	14.8	6.8	27.8	1.2	0.2	4.3	0.9	0.1	2.5	6	1	14	78.5	71.4	87.0	64.4	62.7	66.5
4	Region 15	78.1	77.5	78.6	33.3	31.8	35.8	25.2	19.8	32.8	65.2	58.8	70.6	9.6	8.4	11.4	1.0	0.5	1.2	0.8	0.3	1.2	3	2	5	80.1	77.7	84.3	64.8	64.2	65.8
15	Region 17	76.9	73.4	77.9	33.4	24.3	38.3	17.7	2.9	42.6	65.1	46.9	73.9	17.2	7.3	47.2	1.5	0.2	2.3	1.1	0.0	1.9	13	1	25	75.3	62.7	83.0	63.7	60.6	65.5
6	Region 18	77.6	76.0	79.9	32.2	28.3	35.6	18.9	4.7	26.8	65.4	60.4	69.4	15.7	7.7	25.9	1.1	0.5	1.8	0.8	0.3	1.3	8	1	14	72.1	68.1	80.8	62.9	61.9	65.0
11	Region 19	76.7	75.0	78.2	31.2	28.1	34.2	14.9	6.0	22.4	66.3	61.2	72.8	18.8	6.5	28.5	0.9	0.2	2.4	0.7	0.1	1.8	8	2	18	74.0	57.7	79.9	63.3	59.4	64.7
21	Region 20	77.6	76.0	79.9	34.0	29.1	37.6	18.8	6.3	31.9	65.5	57.1	76.6	15.7	9.6	30.5	1.0	0.1	2.5	0.8	0.1	1.9	6	1	13	77.9	68.0	91.3	64.3	61.9	67.5
56	Region 21	78.7	76.5	81.8	36.4	32.0	40.5	29.7	7.8	61.9	60.5	13.6	73.7	9.8	1.7	36.9	1.1	0.1	4.7	0.8	0.0	3.1	6	0	25	82.3	66.8	94.6	65.3	61.6	68.3
31	Region 22	77.8	76.4	79.2	36.3	31.1	42.3	36.2	23.5	64.2	56.4	26.0	68.7	7.4	2.4	18.8	1.3	0.6	2.7	1.0	0.5	1.7	7	0	20	82.4	69.2	89.1	65.3	62.2	67.0
16	Region 23	78.0	77.2	78.9	34.7	28.0	38.3	29.0	18.1	40.2	62.7	54.4	74.1	8.3	3.9	13.0	1.4	0.5	2.2	1.0	0.3	1.9	4	0	9	77.6	64.8	85.3	64.2	61.1	66.0
16	Region 24	78.2	75.6	80.2	34.1	29.8	39.5	21.7	7.3	31.2	64.4	57.9	71.7	13.8	8.2	27.3	1.1	0.4	2.4	0.8	0.2	1.9	6	3	10	77.0	65.5	86.9	64.1	61.3	66.4
4	Region 25	77.9	76.9	78.6	34.9	31.2	36.8	12.5	2.7	23.2	67.0	64.8	70.1	20.5	11.4	29.5	0.7	0.3	1.3	0.6	0.3	1.0	5	2	9	75.7	64.2	93.8	63.7	61.0	68.1
19	Region 26	76.6	73.2	80.9	32.5	27.8	37.5	17.5	3.0	39.7	64.3	52.4	78.0	18.2	5.5	35.2	1.7	0.5	6.5	1.1	0.0	3.6	12	1	33	79.2	63.4	97.9	64.6	60.8	69.1
21	Region 28	79.1	76.4	81.3	35.6	31.0	41.4	20.2	3.1	42.9	65.4	53.0	76.1	14.4	3.5	37.1	0.7	0.0	2.9	0.5	0.0	1.3	7	0	23	83.1	69.3	90.4	65.5	62.2	67.3
26	Region 29	78.3	73.9	80.7	38.0	33.1	43.8	26.9	7.6	44.0	62.9	33.0	78.0	10.1	3.6	26.6	0.8	0.1	3.9	0.6	0.0	2.6	5	1	12	84.3	72.6	96.5	65.8	63.0	68.8
17	Region 30	78.1	72.5	80.4	34.9	32.2	38.0	22.8	2.5	40.7	64.3	51.0	72.0	13.0	6.6	26.2	0.8	0.2	2.2	0.6	0.1	1.4	5	1	10	82.2	77.4	88.6	65.3	64.1	66.9
15	Region 31	77.9	71.9	79.8	36.4	26.0	42.8	13.4	5.3	24.6	71.5	65.2	80.0	15.0	8.0	24.0	0.6	0.0	2.1	0.4	0.0	1.3	3	0	13	78.1	67.8	87.5	64.3	61.8	66.6
19	Region 32	77.7	74.9	80.2	36.1	30.8	40.3	19.4	7.8	36.7	66.9	54.1	79.2	13.7	4.5	22.8	1.0	0.2	3.2	0.7	0.1	2.1	9	1	42	79.1	71.2	88.6	64.6	62.7	66.9
38	Region 33	78.3	70.0	80.8	34.4	29.3	40.0	14.2	5.1	50.1	68.6	44.7	81.0	17.3	5.2	28.2	0.7	0.1	1.9	0.5	0.1	1.5	4	0	18	80.9	72.7	92.3	65.0	63.0	67.8
38	Region 34	77.5	72.9	80.1	37.4	33.8	43.6	26.2	5.6	52.5	62.3	28.5	78.9	11.6	2.7	62.6	0.9	0.1	1.9	0.6	0.0	1.5	11	1	33	82.4	66.6	93.8	65.4	61.6	68.1
5	Region 35	78.2	76.1	80.2	34.8	29.1	39.3	25.1	4.2	43.0	63.6	55.4	70.0	11.4	1.6	29.9	1.0	0.3	1.8	0.8	0.3	1.3	9	1	21	89.1	70.8	103.2	67.0	62.5	70.4
25	Region 36	78.5	74.5	81.1	36.5	31.0	42.2	15.9	2.1	50.8	67.4	48.0	81.6	16.6	1.2	34.8	1.7	0.4	9.9	1.2	0.1	9.0	13	0	40	88.0	81.1	95.5	66.7	65.1	68.6
469	Ave. WM1	77.9			35.1			22.0			64.3			13.7			1.1			0.8			7			80.5			64.9		
	Min. WM1	70.0			24.3			2.1			13.6			1.2			0.0			0.0			0			50.5			57.7		
	Max. WM1	81.8			43.8			64.2			81.6			62.6			9.9			9.0			42			103.2			70.4		

TABLE 12: PHYSICAL QUALITY FACTORS OF WHITE MAIZE ACCORDING TO GRADE (2016/2017)
(continue)

Number of samples	Region	Test weight (kg/hl)			100 kernel mass (g)			Kernel size (%)			Breakage susceptibility (%)			Stress cracks (%)			SAGL Milling index 2017			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.											
GRADE: WM2																																
4	Region 12	76.5	75.4	77.7	33.8	28.7	38.2	18.0	10.5	30.2	68.1	65.2	71.3	13.9	4.6	21.4	1.6	0.9	2.1	1.2	0.8	1.6	10	3	18	78.0	67.2	92.5	64.3	61.7	67.9	
8	Region 13	76.0	73.0	77.9	31.6	22.8	36.3	20.0	2.3	37.9	63.2	56.4	71.0	16.9	5.7	37.6	2.6	1.4	4.6	1.8	1.1	3.0	18	3	35	80.0	72.6	91.9	64.8	63.0	67.7	
1	Region 14	77.5	-	-	37.1	-	-	30.7	-	-	60.4	-	-	8.9	-	-	0.5	-	-	0.5	-	-	5	-	-	73.2	-	-	63.1	-	-	
5	Region 17	74.9	70.8	78.6	32.6	29.5	36.1	17.8	3.7	26.6	66.8	62.4	74.4	15.4	9.9	23.8	1.6	1.1	2.3	0.9	0.1	1.5	15	7	27	67.2	41.9	84.3	61.7	55.6	65.8	
1	Region 18	77.1	-	-	30.6	-	-	21.3	-	-	64.7	-	-	14.0	-	-	0.6	-	-	0.6	-	-	4	-	-	74.1	-	-	63.4	-	-	
9	Region 19	76.4	73.2	78.6	32.9	27.8	39.5	17.8	1.8	41.7	63.0	53.9	77.5	19.2	3.4	30.6	2.2	0.7	6.7	1.6	0.5	4.5	14	1	37	75.3	52.5	90.4	63.7	58.2	67.3	
1	Region 20	75.9	-	-	34.2	-	-	23.4	-	-	66.0	-	-	10.6	-	-	0.9	-	-	0.6	-	-	10	-	-	81.9	-	-	65.2	-	-	
1	Region 21	78.9	-	-	43.4	-	-	63.3	-	-	36.0	-	-	0.7	-	-	0.2	-	-	0.1	-	-	7	-	-	85.4	-	-	66.0	-	-	
1	Region 23	77.3	-	-	32.4	-	-	26.8	-	-	61.0	-	-	12.2	-	-	1.1	-	-	0.8	-	-	6	-	-	82.0	-	-	65.2	-	-	
3	Region 26	75.5	74.0	76.7	32.0	31.2	32.4	25.3	21.4	29.7	63.5	61.2	65.8	11.2	9.1	15.1	3.6	1.4	5.3	2.4	1.0	3.8	10	2	20	74.1	69.0	83.0	63.4	62.1	65.5	
4	Region 29	78.5	77.9	79.2	35.8	34.7	37.5	30.6	24.4	37.4	59.8	55.7	66.5	9.6	6.9	17.5	1.5	0.9	2.9	1.0	0.6	2.0	12	7	19	84.6	77.3	89.1	65.9	64.1	67.0	
3	Region 30	77.7	77.1	78.7	36.4	35.2	38.8	23.3	10.8	38.1	63.6	57.8	73.5	13.1	4.1	29.6	1.7	1.5	1.9	1.0	0.9	1.2	5	3	8	81.3	79.4	84.4	65.1	64.7	65.8	
2	Region 31	76.5	75.7	77.2	39.2	36.1	42.3	13.9	9.7	18.1	75.7	68.9	82.4	10.5	7.9	13.0	0.3	0.2	0.3	0.1	0.1	0.1	8	0	15	80.0	77.9	82.1	64.8	64.3	65.3	
8	Region 32	75.8	72.6	77.6	35.4	30.8	40.5	29.3	6.5	57.8	55.1	30.6	79.5	15.6	2.2	53.1	1.4	0.7	3.0	0.9	0.4	2.1	6	0	13	73.4	67.6	85.4	63.1	61.7	66.1	
5	Region 33	78.6	77.4	79.5	34.6	31.7	36.7	23.4	9.8	41.8	59.9	52.4	65.5	16.7	5.8	28.1	0.6	0.0	1.6	0.5	0.0	1.2	6	0	14	84.2	77.0	90.4	65.8	64.0	67.3	
1	Region 34	71.8	-	-	35.9	-	-	33.8	-	-	59.0	-	-	7.2	-	-	0.6	-	-	0.6	-	-	22	-	-	74.9	-	-	63.5	-	-	
2	Region 35	80.1	79.7	80.4	35.6	33.8	37.3	12.8	10.7	14.8	66.5	63.5	69.4	20.8	19.9	21.7	1.2	0.6	1.7	0.9	0.6	1.2	13	9	17	88.7	87.3	90.1	66.9	66.5	67.2	
3	Region 36	78.2	77.9	78.4	38.9	37.7	40.5	26.8	25.4	27.7	64.4	62.6	66.4	8.7	8.2	9.7	0.8	0.4	1.7	0.7	0.3	1.5	11	7	17	86.2	81.0	90.8	66.3	65.1	67.4	
62	Ave. WM2	76.7	70.8	80.4	34.4	22.8	43.4	23.1	1.8	63.3	62.3	30.6	82.4	14.6	0.7	53.1	1.6	0.0	6.7	1.1	0.0	4.5	11	0	37	78.1	41.9	92.5	64.3	55.6	67.9	
	Min. WM2																															
	Max. WM2																															

TABLE 12: PHYSICAL QUALITY FACTORS OF WHITE MAIZE ACCORDING TO GRADE (2016/2017)
(continue)

Number of samples	Region	Test weight (kg/hl)			100 kernel mass (g)			Kernel size (%)			Breakage susceptibility (%)			Stress cracks (%)			SAGL Milling index 2017			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.							
GRADE: WM3																												
1	Region 13	73.4	-	-	37.8	-	-	29.2	-	-	60.7	-	-	10.1	-	-	2.4	-	-	1.9	-	-	41.2	-	-	55.4	-	-
1	Region 17	76.6	-	-	36.6	-	-	29.7	-	-	62.4	-	-	7.9	-	-	1.2	-	-	0.9	-	-	73.6	-	-	63.2	-	-
1	Region 19	76.2	-	-	33.2	-	-	22.6	-	-	65.6	-	-	11.8	-	-	1.3	-	-	0.8	-	-	86.3	-	-	66.3	-	-
1	Region 20	77.6	-	-	37.0	-	-	5.7	-	-	77.5	-	-	16.8	-	-	2.2	-	-	1.8	-	-	81.9	-	-	65.2	-	-
1	Region 30	77.7	-	-	37.0	-	-	31.0	-	-	63.1	-	-	5.9	-	-	0.4	-	-	0.3	-	-	81.7	-	-	65.2	-	-
1	Region 32	78.6	-	-	35.4	-	-	13.0	-	-	66.9	-	-	20.1	-	-	0.7	-	-	0.5	-	-	91.3	-	-	67.5	-	-
1	Region 35	75.5	-	-	32.5	-	-	6.4	-	-	69.0	-	-	24.6	-	-	2.4	-	-	2.2	-	-	82.9	-	-	65.5	-	-
2	Region 36	78.1	78.0	78.2	40.3	40.3	40.3	25.7	25.5	25.8	64.6	63.9	65.3	9.8	9.2	10.3	0.4	0.1	0.8	0.1	0.0	0.3	89.6	89.3	89.9	67.1	67.0	67.2
9	Ave. WM3	76.9			36.7			21.0			66.0			13.0			1.3			1.0			79.8			64.7		
	Min. WM3	73.4			32.5			5.7			60.7			5.9			0.1			0.0			41.2			55.4		
	Max. WM3	78.6			40.3			31.0			77.5			24.6			2.4			2.2			91.3			67.5		
CLASS: COM																												
1	Region 13	76.2	-	-	33.0	-	-	6.8	-	-	71.7	-	-	21.5	-	-	1.5	-	-	0.7	-	-	91.6	-	-	67.6	-	-
3	Region 19	74.0	71.4	78.1	33.5	30.6	38.2	23.1	7.7	40.1	62.7	52.8	68.7	14.2	7.1	23.6	2.1	1.7	2.3	1.6	1.5	1.8	80.3	70.2	89.0	64.8	62.4	66.9
1	Region 20	76.0	-	-	29.9	-	-	23.9	-	-	67.1	-	-	9	-	-	1.3	-	-	1.1	-	-	82.6	-	-	65.4	-	-
1	Region 31	72.7	-	-	34.6	-	-	20.9	-	-	71.8	-	-	7.3	-	-	0.3	-	-	0.1	-	-	90.9	-	-	67.4	-	-
2	Region 33	78.8	78.4	79.1	39.5	38.3	40.6	48.5	48.1	48.8	48.2	47.4	49.0	3.4	2.9	3.8	0.6	0.4	0.7	0.5	0.4	0.5	84.1	82.2	86.1	65.8	65.3	66.2
1	Region 35	75.7	-	-	35.2	-	-	6.9	-	-	72.8	-	-	20.3	-	-	8.3	-	-	6.1	-	-	79.5	-	-	64.7	-	-
9	Ave. COM	75.6			34.7			25.0			63.1			11.9			2.1			1.5			83.8			65.7		
	Min. COM	71.4			29.9			6.8			47.4			2.9			0.3			0.1			70.2			62.4		
	Max. COM	79.1			40.6			48.8			72.8			23.6			8.3			6.1			91.6			67.6		
549 Ave. white maize																												
	Min. white maize	77.7			35.0			22.1			64.1			13.7			1.2			0.8			80.2			64.8		
	Max. white maize	81.8			43.8			1.8			13.6			0.7			0.0			0.0			41.2			55.4		
1000 Ave. maize																												
	Min. maize	77.3			34.3			17.3			64.8			17.9			1.2			0.8			78.7			64.5		
	Max. maize	82.4			43.8			0.0			71.9			0.7			0.0			0.0			105.4			54.2		