TABLE 14: PHYSICAL QUALITY FACTORS OF YELLOW MAIZE ACCORDING TO GRADE (2016/2017)

Number of samples	Region	Test weight (kg/hl)			100 kernel mass (g)			Kernel size (%)									Breakage susceptibility (%)						Stress cracks (%)			SAGL Milling index 2017			GYA		
								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.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.
GRADE: YM1																															
37	Region 10	79.6	77.5	80.9	36.5	30.2	42.2	5.2	0.0	14.2	65.3	30.8	80.8	29.5	8.9	69.2	0.8	0.2	2.4	0.6	0.0	2.2	7	0	21	77.5	63.6	90.9	64.2	60.8	67.4
3	Region 11	78.6	77.7	79.6	33.6	31.3	35.9	4.2	3.3	5.4	60.7	50.2	69.0	35.1	27.0	46.5	0.8	0.2	1.6	0.4	0.0	0.8	6	3	9	74.9	70.7	77.3	63.5	62.5	64.1
3	Region 12	78.1	75.8	79.8	30.1	28.6	33.0	10.1	4.1	15.1	70.4	67.7	74.1	19.5	14.8	28.2	1.8	1.3	2.3	1.3	1.0	1.8	5	3	8	88.9	86.6	93.0	66.9	66.4	67.9
5	Region 13	77.8	76.7	79.0	29.4	25.1	34.4	8.1	2.4	21.8	65.6	55.9	71.2	26.3	9.4	41.7	2.3	1.1	4.4	1.3	1.0	1.9	13	5	21	89.5	85.4	92.3	67.1	66.0	67.8
8	Region 14	77.6	76.4	79.4	32.1	29.3	38.6	10.0	4.2	35.9	65.9	57.7	69.4	24.1	6.4	29.3	1.0	0.2	1.9	0.7	0.1	1.3	9	2	14	84.2	80.1	93.3	65.8	64.8	68.0
3	Region 17	77.3	75.0	78.7	29.5	27.0	31.0	8.6	3.9	11.5	60.8	59.7	61.8	30.6	26.7	36.4	1.9	0.8	3.9	1.3	0.6	2.8	8	4	12	84.1	78.2	88.9	65.7	64.3	66.9
3	Region 18	77.7	77.0	78.9	29.6	29.3	29.8	5.8	4.9	6.8	69.8	67.7	72.9	24.4	22.2	25.6	1.7	1.4	1.8	1.2	1.2	1.3	9	6	11	85.2	83.5	88.5	66.0	65.6	66.8
5	Region 19	77.3	76.2	78.4	32.1	27.9	35.7	12.9	6.4	18.8	67.1	60.9	71.2	20.0	15.2	24.6	1.0	0.8	1.5	0.7	0.4	1.0	7	5	12	82.1	69.0	88.1	65.3	62.1	66.7
5	Region 20	77.2	76.2	79.1	31.8	29.3	35.7	10.7	5.3	25.9	63.8	61.8	70.8	25.5	11.4	32.9	1.3	0.9	2.5	1.1	0.7	2.2	8	1	18	78.9	69.3	86.9	64.5	62.2	66.4
10	Region 21	78.1	76.1	79.6	35.0	30.6	37.7	19.4	6.9	71.9	65.1	17.9	77.2	15.5	5.9	24.6	0.9	0.3	1.6	0.7	0.2	1.3	9	3	16	83.5	73.6	91.9	65.6	63.2	67.7
3	Region 22	77.0	74.8	78.1	32.6	27.0	39.2	11.1	3.3	25.8	61.9	56.5	64.8	27.0	9.9	40.2	1.6	1.2	1.8	1.0	0.6	1.6	16	10	22	83.6	80.0	88.3	65.6	64.8	66.8
3	Region 23	77.1	76.8	77.7	33.8	28.9	36.7	6.6	4.8	9.4	70.1	66.2	73.3	23.3	19.9	29.0	1.3	1.2	1.3	0.9	0.6	1.1	12	9	16	86.6	83.6	89.7	66.3	65.6	67.1
3	Region 24	77.5	76.3	78.3	26.2	25.3	27.6	5.0	3.6	5.9	62.2	57.0	67.6	32.8	26.8	39.4	1.1	0.5	1.4	0.8	0.1	1.2	10	8	11	88.5	79.9	95.5	66.8	64.7	68.5
26	Region 25	77.4	75.7	79.7	31.9	26.5	39.7	9.9	3.6	27.6	63.3	39.3	71.3	26.8	9.6	56.5	1.0	0.2	2.2	0.6	0.2	1.5	7	0	17	67.7	56.3	79.8	61.8	59.0	64.7
28	Region 26	76.6	70.8	78.9	32.0	27.1	37.5	11.4	2.5	54.6	63.4	40.0	72.2	25.2	5.4	46.2	1.6	0.2	5.1	1.0	0.0	3.1	8	1	25	74.0	55.8	90.2	63.3	58.9	67.3
33	Region 28	76.8	74.7	78.8	33.9	28.0	39.9	12.5	5.1	23.0	64.4	13.0	74.4	23.1	7.0	68.5	0.9	0.3	2.5	0.6	0.0	1.6	6	0	18	74.1	64.5	90.7	63.3	61.0	67.4
74	Region 29	76.8	69.1	80.7	35.2	28.1	43.3	13.8	2.5	50.9	66.7	31.0	90.9	19.5	6.2	60.8	1.0	0.1	5.3	0.7	0.0	5.3	6	0	17	77.8	60.1	97.7	64.2	59.9	69.0
31	Region 30	75.2	67.6	79.2	34.2	28.7	40.1	13.7	0.9	32.1	68.2	56.9	77.0	18.1	4.7	41.5	0.9	0.2	2.9	0.7	0.0	2.2	6	1	23	75.7	62.1	88.8	63.7	60.4	66.9
14	Region 31	77.0	74.8	79.1	33.4	31.4	38.2	15.2	10.3	28.9	67.7	61.0	77.0	17.1	10.1	25.6	0.6	0.3	1.0	0.4	0.1	0.8	5	0	19	75.0	66.9	82.4	63.5	61.6	65.3
26	Region 32	76.9	68.8	80.9	34.6	25.8	40.2	14.2	3.3	23.8	66.9	36.3	74.6	18.9	1.6	56.7	1.1	0.2	2.5	0.8	0.0	2.1	11	3	32	78.8	67.2	96.5	64.5	61.6	68.8
24	Region 33	76.1	71.4	78.0	34.0	29.4	39.4	12.4	0.6	23.7	70.2	59.1	84.4	17.3	6.9	32.6	1.1	0.2	3.2	0.8	0.0	2.1	5	0	19	75.2	56.5	89.3	63.6	59.1	66.9
38	Region 34	76.3	69.9	82.4	33.6	23.5	39.2	14.3	1.5	42.1	65.8	18.1	77.5	19.8	4.2	69.7	0.9	0.2	2.2	0.6	0.0	1.7	9	1	34	78.7	54.4	103.7	64.4	58.6	70.5
9	Region 35	76.6	73.3	78.7	31.7	26.4	35.7	9.4	1.3	17.4	64.6	52.4	74.2	26.0	15.3	46.3	0.9	0.2	4.3	0.7	0.2	3.2	7	4	12	74.9	66.9	94.8	63.5	61.6	68.4
23	Region 36	77.5	74.2	80.1	33.8	30.6	37.9	7.4	1.7	21.7	59.7	34.9	75.4	32.9	10.6	58.6	1.4	0.4	4.4	1.0	0.3	3.5	9	1	29	76.5	61.6	105.4	63.9	60.3	70.9
417	**Ave. YM1**	**77.0**			**33.8**			**11.7**			**65.6**			**22.6**			**1.0**			**0.7**			**7**			**77.0**			**64.0**		
	Min. YM1		**67.6**			**23.5**			**0.0**			**13.0**			**1.6**			**0.1**			**0.0**			**0**			**54.4**			**58.6**	
	Max. YM1			**82.4**			**43.3**			**71.9**			**90.9**			**69.7**			**5.3**			**5.3**			**34**			**105.4**			**70.9**

TABLE 14: PHYSICAL QUALITY FACTORS OF YELLOW 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		
								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.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.
GRADE: YM2																															
1	Region 11	78.5	-	-	34.7	-	-	4.0	-	-	70.8	-	-	25.2	-	-	1.0	-	-	0.6	-	-	3	-	-	77.0	-	-	64.0	-	-
1	Region 13	72.9	-	-	30.1	-	-	11.1	-	-	69.3	-	-	19.6	-	-	3.5	-	-	2.8	-	-	6	-	-	89.9	-	-	67.2	-	-
1	Region 17	76.9	-	-	30.4	-	-	7.1	-	-	72.9	-	-	20.0	-	-	0.9	-	-	0.8	-	-	1	-	-	88.3	-	-	66.7	-	-
1	Region 19	72.3	-	-	32.5	-	-	13.6	-	-	75.3	-	-	11.1	-	-	0.8	-	-	0.7	-	-	13	-	-	86.1	-	-	66.2	-	-
3	Region 20	76.3	74.9	78.4	31.4	29.0	33.4	9.9	6.6	13.7	68.5	63.5	73.8	21.6	16.7	25.2	1.7	1.1	2.3	1.2	0.9	1.5	12	5	19	81.8	77.2	86.9	65.2	64.1	66.4
1	Region 21	79.3	-	-	29.0	-	-	4.0	-	-	63.5	-	-	32.5	-	-	1.0	-	-	1.0	-	-	8	-	-	95.0	-	-	68.4	-	-
1	Region 23	75.9	-	-	30.6	-	-	3.7	-	-	70.2	-	-	26.1	-	-	1.6	-	-	1.4	-	-	4	-	-	85.4	-	-	66.1	-	-
6	Region 26	73.7	70.4	77.0	29.8	26.4	32.4	8.0	2.4	13.7	65.9	59.7	72.3	26.2	16.8	34.8	2.6	0.8	4.0	1.8	0.4	2.8	11	6	15	63.5	36.9	81.1	60.7	54.2	65.0
1	Region 29	71.0	-	-	29.2	-	-	7.4	-	-	73.3	-	-	19.3	-	-	1.8	-	-	1.2	-	-	1	-	-	70.6	-	-	62.5	-	-
2	Region 30	75.0	74.5	75.4	33.4	32.4	34.4	8.8	0.9	16.6	61.3	60.9	61.6	30.0	21.8	38.2	0.9	0.9	0.9	0.7	0.5	0.8	4	1	6	61.3	57.5	65.1	60.3	59.3	61.2
2	Region 33	73.4	71.9	74.8	24.3	20.6	27.9	2.0	1.0	2.9	45.4	42.3	48.5	52.7	48.6	56.7	3.0	2.1	4.0	1.7	1.2	2.3	6	5	7	72.1	64.9	79.4	62.8	61.1	64.6
2	Region 34	76.1	75.5	76.7	34.1	33.5	34.7	7.1	5.7	8.4	71.1	69.4	72.8	21.9	21.5	22.2	2.4	1.4	3.4	1.0	1.0	1.0	29	25	32	95.4	89.5	101.2	68.5	67.1	69.9
1	Region 35	77.0	-	-	22.3	-	-	3.5	-	-	57.5	-	-	39.0	-	-	1.4	-	-	1.0	-	-	17	-	-	102.0	-	-	70.1	-	-
5	Region 36	75.8	71.8	78.5	32.6	30.3	33.9	4.9	1.9	9.9	53.7	48.5	57.9	41.4	32.2	49.4	1.7	0.5	3.7	1.2	0.3	2.1	10	3	28	67.2	47.4	76.9	61.7	56.9	64.1
28	**Ave. YM2**	**75.1**			**30.7**			**6.9**			**63.5**			**29.7**			**1.9**			**1.3**			**10**			**75.5**			**63.7**		
	Min. YM2		**70.4**			**20.6**			**0.9**			**42.3**			**11.1**			**0.5**			**0.3**			**1**			**36.9**			**54.2**	
	Max. YM2			**79.3**			**34.7**			**16.6**			**75.3**			**56.7**			**4.0**			**2.8**			**32**			**102.0**			**70.1**
GRADE: YM3																															
1	Region 20	76.9	-	-	33.3	-	-	26.4	-	-	61.3	-	-	12.3	-	-	2.8	-	-	1.9	-	-	27	-	-	79.7	-	-	64.7	-	-
1	Region 30	71.9	-	-	28.0	-	-	6.0	-	-	66.7	-	-	27.3	-	-	1.7	-	-	1.2	-	-	0	-	-	54.0	-	-	58.4	-	-
2	**Ave. YM3**	**74.4**			**30.7**			**16.2**			**64.0**			**19.8**			**2.3**			**1.6**			**14**			**66.8**			**61.5**		
	Min. YM3		**71.9**			**28.0**			**6.0**			**61.3**			**12.3**			**1.7**			**1.2**			**0**			**54.0**			**58.4**	
	Max. YM3			**76.9**			**33.3**			**26.4**			**66.7**			**27.3**			**2.8**			**1.9**			**27**			**79.7**			**64.7**

TABLE 14: PHYSICAL QUALITY FACTORS OF YELLOW 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		
								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.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.
CLASS: COM																															
2	Region 26	70.4	70.1	70.6	28.5	27.9	29.0	7.7	5.2	10.1	71.2	69.4	73.0	21.2	16.9	25.4	2.5	1.9	3.0	1.9	1.2	2.5	4	2	5	57.255	55.48	59.03	59.2	58.7	59.6
1	Region 30	73.6	-	-	30.1	-	-	10.8	-	-	66.4	-	-	22.8	-	-	1.6	-	-	1.3	-	-	2	-	-	62.7	-	-	60.6	-	-
1	Region 33	78.9	-	-	18.4	-	-	1.5	-	-	86.8	-	-	11.7	-	-	8.6	-	-	3.7	-	-	50	-	-	87.1	-	-	66.5	-	-
4	**Ave. COM**	**73.3**			**26.4**			**6.9**			**73.9**			**19.2**			**3.8**			**2.2**			**15**			**66.1**			**61.4**		
	Min. COM		**70.1**			**18.4**			**1.5**			**66.4**			**11.7**			**1.6**			**1.2**			**2**			**55.5**			**58.7**	
	Max. COM			**78.9**			**30.1**			**10.8**			**86.8**			**25.4**			**8.6**			**3.7**			**50**			**87.1**			**66.5**
451	**Ave. yellow maize**	**76.9**			**33.5**			**11.4**			**65.6**			**23.0**			**1.1**			**0.8**			**8**			**76.8**			**64.0**		
	Min. yellow maize		**67.6**			**18.4**			**0.0**			**13.0**			**1.6**			**0.1**			**0.0**			**0**			**36.9**			**54.2**	
	Max. yellow maize			**82.4**			**43.3**			**71.9**			**90.9**			**69.7**			**8.6**			**5.3**			**50**			**105.4**			**70.9**
1000	**Ave. maize**	**77.3**			**34.3**			**17.3**			**64.8**			**17.9**			**1.2**			**0.8**			**8**			**78.7**			**64.5**		
	Min. maize		**67.6**			**18.4**			**0.0**			**13.0**			**0.7**			**0.0**			**0.0**			**0**			**36.9**			**54.2**	
	Max. maize			**82.4**			**43.8**			**71.9**			**90.9**			**69.7**			**9.9**			**9.0**			**50**			**105.4**			**70.9**