

**TABLE 19: ROFF MILLING AND WHITENESS INDEX OF WHITE MAIZE ACCORDING TO GRADE (2006/2007)**

Number of samples	Region	Roff Milling												Whiteness index												
		Break 1, %			Break 2, %			Break 3, %			Grits, %			Bran/Germ, %			Extraction, % (Total meal)			Whiteness index unsifted			Whiteness index sifted 87:13			
		ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	
<b>GRADE: WM 1</b>																										
1	Region 8	12.4	12.4	12.4	9.8	9.8	9.8	27.1	27.1	27.1	30.3	30.3	30.3	20.3	20.3	20.3	79.7	79.7	79.7	23.9	23.9	23.9	15.4	15.4	15.4	
1	Region 10	13.0	13.0	13.0	9.6	9.6	9.6	27.1	27.1	27.1	29.1	29.1	29.1	21.2	21.2	21.2	78.8	78.8	78.8	24.9	24.9	24.9	13.9	13.9	13.9	
9	Region 11	11.6	10.5	12.5	9.6	9.0	10.6	25.8	22.6	28.6	31.6	30.4	33.3	21.5	19.4	24.5	78.5	75.5	80.6	26.6	16.7	35.0	18.2	10.1	28.5	
6	Region 12	12.2	9.8	16.2	9.7	9.1	10.5	25.9	23.3	27.8	30.5	25.4	33.0	21.6	20.3	24.6	78.4	75.4	79.7	29.7	26.6	34.5	20.4	16.0	26.4	
4	Region 13	11.5	10.3	12.5	9.1	8.8	9.5	26.7	26.1	27.2	31.6	29.1	33.5	21.0	20.2	22.9	79.0	77.1	79.8	31.2	29.5	32.8	21.2	17.9	23.2	
28	Region 14	12.4	9.6	13.9	9.8	8.8	11.4	27.7	25.1	30.4	29.4	26.0	33.4	20.7	19.0	23.0	79.3	77.0	81.0	29.0	25.7	35.0	20.6	12.1	24.5	
27	Region 15	12.1	10.6	14.6	9.9	9.3	11.4	27.6	24.1	31.0	30.3	25.3	34.2	20.1	18.1	24.0	79.9	76.0	81.9	26.4	13.9	32.6	18.7	15.0	22.1	
11	Region 16	12.6	10.8	14.0	9.7	8.8	10.3	27.6	25.4	30.5	29.4	24.9	33.8	20.7	18.5	24.1	79.3	75.9	81.5	28.7	24.2	38.1	20.4	16.7	29.0	
7	Region 17	11.0	9.6	11.8	9.4	8.4	11.1	26.6	23.7	28.7	31.4	27.8	33.4	21.6	19.1	24.5	78.4	75.5	80.9	32.2	28.5	36.8	24.7	21.2	28.3	
17	Region 18	11.7	10.8	13.1	9.5	8.6	11.7	26.3	21.8	29.7	30.5	26.7	34.6	22.0	19.1	25.0	78.0	75.0	80.9	30.7	27.2	33.3	22.0	18.2	26.5	
7	Region 19	11.9	11.1	12.7	9.5	8.6	10.6	25.9	23.7	28.0	30.5	28.3	31.9	22.3	20.8	24.3	77.7	75.7	79.2	30.7	28.3	32.6	21.4	19.2	23.5	
6	Region 20	13.4	12.3	16.4	9.8	9.2	11.1	24.6	22.7	27.4	29.7	28.5	31.1	22.5	20.3	23.6	77.5	76.4	79.7	32.2	30.1	34.9	22.4	19.4	24.7	
14	Region 21	11.9	9.9	13.5	9.3	9.1	9.9	26.8	24.7	30.3	30.2	26.5	32.7	21.8	20.3	24.6	78.2	75.4	79.7	30.4	26.0	36.7	21.1	17.2	25.3	
31	Region 22	12.6	10.7	13.8	9.9	9.2	11.1	26.9	24.2	29.2	29.5	25.7	32.2	21.1	18.2	23.0	78.9	77.0	81.8	29.3	26.1	35.5	20.6	17.2	24.2	
89	Region 23	12.3	5.9	14.4	10.1	8.7	49.6	26.5	14.6	29.9	30.1	17.0	34.8	20.9	12.9	24.2	79.1	75.8	87.1	30.1	22.5	36.5	21.3	13.4	26.9	
31	Region 24	11.7	9.5	13.8	9.7	8.7	11.2	26.9	24.0	29.7	29.6	25.3	32.6	22.2	20.4	25.1	77.8	74.9	79.6	31.8	26.3	36.4	22.7	19.7	27.6	
18	Region 25	12.9	7.3	14.6	9.7	8.1	11.1	27.0	23.7	30.0	28.8	24.8	37.6	21.6	19.9	23.9	78.4	76.1	80.1	29.6	22.0	34.0	20.6	13.9	24.7	
7	Region 26	14.3	8.8	27.8	9.3	8.3	10.1	24.9	20.7	28.3	30.1	21.0	35.3	21.5	18.7	23.2	78.5	76.8	81.3	30.7	26.5	37.3	21.0	17.1	29.5	
7	Region 27	10.6	9.7	13.5	8.7	8.5	9.6	26.8	24.7	28.6	31.5	28.8	33.6	22.4	19.6	23.5	77.6	76.5	80.4	29.6	22.0	34.0	20.6	13.9	24.7	
7	Region 28	13.2	11.5	14.8	9.8	9.3	10.6	28.3	25.2	31.6	28.9	26.0	31.2	19.8	17.8	21.7	80.2	78.3	82.2	27.6	25.0	31.0	19.9	15.6	25.1	
16	Region 29	14.0	12.3	16.3	9.8	9.2	10.3	28.1	25.0	30.2	27.8	24.8	30.0	20.4	18.2	23.8	79.6	76.2	81.8	27.3	24.1	34.5	17.3	12.9	21.1	
20	Region 30	13.1	11.4	15.0	9.7	9.1	10.6	26.1	22.5	28.3	27.9	24.8	32.2	23.2	20.9	27.3	76.8	72.7	79.1	30.0	24.1	33.6	20.8	15.2	26.8	
6	Region 31	13.5	12.3	14.8	10.0	9.6	10.4	27.6	26.8	29.1	28.9	26.3	30.4	20.0	18.8	21.4	80.0	78.6	81.2	25.8	21.8	31.9	16.3	11.8	22.9	
20	Region 32	13.5	12.3	14.7	9.7	9.1	10.4	26.8	24.6	30.3	28.5	26.6	31.4	21.6	18.6	24.2	78.4	75.8	81.4	28.7	21.4	34.3	18.6	12.4	25.6	
18	Region 33	13.5	9.8	15.4	10.3	9.5	11.3	26.4	24.1	28.7	27.0	23.6	29.2	22.7	18.2	25.1	77.3	74.9	81.8	31.5	26.7	37.9	21.8	18.3	29.6	
22	Region 34	13.6	11.7	15.9	10.0	9.3	11.1	27.2	24.5	29.5	28.1	24.2	30.5	21.2	18.2	23.1	78.8	76.9	81.8	32.6	22.6	39.6	21.7	9.7	28.3	
10	Region 35	11.8	8.4	13.0	9.4	8.5	10.0	26.6	25.1	29.7	29.4	26.9	34.6	22.8	19.4	25.9	77.2	74.1	80.6	27.7	19.2	33.2	20.1	12.7	25.0	
7	Region 36	12.5	11.8	13.1	9.6	9.5	9.9	24.7	23.3	26.4	30.9	29.3	32.9	22.3	20.4	24.4	77.7	75.6	79.6	30.2	27.9	33.5	18.7	15.9	23.6	
<b>455</b>	<b>Ave WM 1</b>	<b>12.5</b>	<b>5.9</b>	<b>27.8</b>	<b>9.8</b>	<b>8.1</b>	<b>49.6</b>	<b>26.8</b>	<b>14.6</b>	<b>31.6</b>	<b>29.5</b>	<b>17.0</b>	<b>37.6</b>	<b>21.4</b>	<b>12.9</b>	<b>27.3</b>	<b>78.6</b>	<b>72.7</b>	<b>87.1</b>	<b>29.6</b>	<b>13.9</b>	<b>39.6</b>	<b>20.6</b>	<b>9.7</b>	<b>29.6</b>	
	<b>Min WM 1</b>																									
	<b>Max WM 1</b>																									

**TABLE 19: ROFF MILLING AND WHITENESS INDEX OF WHITE MAIZE ACCORDING TO GRADE (2006/2007)**  
(continue)

Number of samples	Region	Roff Milling												Whiteness index											
		Break 1, %			Break 2, %			Break 3, %			Grits, %			Bran/Germ, %			Extraction, % (Total meal)			Whiteness index unsifted			Whiteness index sifted 87:13		
		ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.
<b>GRADE: WM 2</b>																									
6	Region 12	11.1	10.3	12.6	9.5	9.2	10.0	26.3	25.1	27.7	31.4	30.0	32.4	21.6	20.4	22.6	78.4	77.4	79.6	29.2	27.1	33.6	18.9	17.4	20.4
6	Region 13	11.6	8.4	15.3	9.3	8.8	10.2	26.0	23.1	29.6	30.8	26.2	36.2	22.3	20.5	24.5	77.7	75.5	79.5	28.1	23.8	32.6	19.6	15.9	23.2
7	Region 14	10.7	9.5	11.3	9.2	8.8	9.7	26.4	25.4	27.9	32.3	30.2	33.4	21.4	20.2	23.3	78.6	76.7	79.8	27.8	25.0	30.1	20.2	16.8	22.3
2	Region 15	12.7	11.6	13.9	9.9	9.4	10.4	27.1	25.2	29.0	27.6	26.4	28.8	22.7	21.3	24.0	77.3	76.0	78.7	27.6	27.3	27.9	18.9	17.2	20.7
1	Region 16	14.5	14.5	14.5	9.8	9.8	9.8	24.2	24.2	24.2	23.8	23.8	23.8	27.6	27.6	27.6	72.4	72.4	72.4	35.8	35.8	35.8	24.3	24.3	24.3
8	Region 17	9.9	8.6	11.2	9.0	8.5	9.5	26.9	24.6	30.1	32.7	29.0	35.6	21.6	20.0	23.8	78.4	76.2	80.0	28.3	26.2	31.9	20.1	16.9	22.6
8	Region 19	10.8	9.9	12.9	9.3	8.9	10.2	25.9	24.2	30.7	32.0	29.0	34.1	22.2	19.8	23.2	77.8	76.8	80.2	30.6	28.0	33.0	22.9	20.6	25.0
1	Region 20	11.6	11.6	11.6	9.7	9.7	9.7	26.2	26.2	26.2	31.0	31.0	31.0	21.4	21.4	21.4	78.6	78.6	78.6	25.9	25.9	25.9	18.7	18.7	18.7
9	Region 21	11.9	8.9	15.4	9.8	9.1	10.5	25.5	23.3	27.5	29.6	25.7	32.4	23.2	21.6	26.3	76.8	73.7	78.4	31.4	28.0	35.2	21.5	18.2	24.7
1	Region 22	11.9	11.9	11.9	9.8	9.8	9.8	27.0	27.0	27.0	30.5	30.5	30.5	20.7	20.7	20.7	79.3	79.3	79.3	29.7	29.7	29.7	25.3	25.3	25.3
8	Region 23	11.6	10.7	12.4	9.4	8.5	10.5	26.5	24.8	27.6	31.8	28.8	35.6	20.7	19.1	23.2	79.3	76.8	80.9	28.1	20.6	36.5	20.4	11.9	29.0
3	Region 24	11.8	9.9	14.1	9.3	9.0	9.6	26.6	24.5	28.5	29.6	26.3	32.3	22.7	20.5	25.5	77.3	74.5	79.5	29.7	25.5	34.2	22.5	20.4	24.8
1	Region 28	12.8	12.8	12.8	9.7	9.7	9.7	26.8	26.8	26.8	29.9	29.9	29.9	20.9	20.9	20.9	79.1	79.1	79.1	27.0	27.0	27.0	16.7	16.7	16.7
1	Region 30	15.3	15.3	15.3	10.0	10.0	10.0	24.1	24.1	24.1	25.9	25.9	25.9	24.7	24.7	24.7	75.3	75.3	75.3	25.5	25.5	25.5	18.7	18.7	18.7
1	Region 31	11.8	11.8	11.8	9.1	9.1	9.1	25.8	25.8	25.8	28.2	28.2	28.2	25.1	25.1	25.1	74.9	74.9	74.9	21.0	21.0	21.0	6.7	6.7	6.7
1	Region 33	13.1	13.1	13.1	10.0	10.0	10.0	25.6	25.6	25.6	25.5	25.5	25.5	25.7	25.7	25.7	74.3	74.3	74.3	25.4	25.4	25.4	16.4	16.4	16.4
2	Region 34	13.5	13.4	13.6	10.1	10.1	10.2	26.5	26.4	26.5	27.8	26.4	29.2	22.1	20.9	23.3	77.9	76.7	79.1	26.5	24.0	29.1	16.2	12.0	20.4
<b>66</b>	<b>Ave WM 2</b>	<b>11.4</b>	<b>8.4</b>	<b>15.4</b>	<b>9.4</b>	<b>8.5</b>	<b>10.5</b>	<b>26.2</b>	<b>23.1</b>	<b>30.7</b>	<b>30.8</b>	<b>23.8</b>	<b>36.2</b>	<b>22.1</b>	<b>19.1</b>	<b>27.6</b>	<b>77.9</b>	<b>72.4</b>	<b>80.9</b>	<b>28.8</b>	<b>20.6</b>	<b>36.5</b>	<b>20.3</b>	<b>6.7</b>	<b>29.0</b>
	<b>Min WM 2</b>																								
	<b>Max WM 2</b>																								



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Number of samples	Region	Roﬀ Milling												Whiteness index												
		Break 1, %			Break 2, %			Break 3, %			Grits, %			Bran/Germ, %			Extraction, % (Total meal)			Whiteness index unsifted			Whiteness index sifted 87:13			
		ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	
<b>GRADE: WHITE</b>																										
1	Region 8	12.4	12.4	12.4	9.8	9.8	9.8	27.1	27.1	27.1	30.3	30.3	30.3	20.3	20.3	20.3	79.7	79.7	79.7	23.9	23.9	23.9	15.4	15.4	15.4	
1	Region 10	13.0	13.0	13.0	9.6	9.6	9.6	27.1	27.1	27.1	29.1	29.1	29.1	21.2	21.2	21.2	78.8	78.8	78.8	24.9	24.9	24.9	13.9	13.9	13.9	
9	Region 11	11.6	10.5	12.5	9.6	9.0	10.6	25.8	22.6	28.6	31.6	30.4	33.3	21.5	19.4	24.5	78.5	75.5	80.6	26.6	16.7	35.0	18.2	10.1	28.5	
16	Region 12	11.5	9.8	16.2	9.5	8.8	10.5	26.2	23.3	28.2	31.2	25.4	34.3	21.6	19.8	24.6	78.4	75.4	80.2	29.2	25.9	34.5	19.1	13.2	26.4	
13	Region 13	11.2	8.4	15.3	9.2	8.6	10.2	26.5	23.1	29.6	31.6	26.2	36.2	21.5	19.7	24.5	78.5	75.5	80.3	28.5	23.5	32.8	19.2	14.1	23.2	
39	Region 14	12.0	9.5	14.6	9.7	8.8	11.4	27.2	22.3	30.4	30.0	26.0	33.4	21.1	19.0	26.5	78.9	73.5	81.0	28.8	25.0	35.0	20.4	12.1	24.5	
34	Region 15	12.1	9.7	15.1	9.9	9.2	11.4	27.2	21.8	31.0	30.2	25.3	34.3	20.6	18.1	25.3	79.4	74.7	81.9	26.6	13.9	32.6	18.5	13.2	23.2	
15	Region 16	13.2	10.8	15.1	9.7	8.8	10.3	26.3	21.1	30.5	28.2	23.8	33.8	22.6	18.5	28.0	77.4	72.0	81.5	30.0	24.2	38.1	21.0	16.7	29.0	
21	Region 17	10.5	8.6	12.1	9.2	8.4	11.1	26.5	23.4	30.1	32.1	27.8	35.6	21.8	19.1	24.7	78.2	75.3	80.9	29.1	22.8	36.8	21.6	16.9	28.3	
17	Region 18	11.7	10.8	13.1	9.5	8.6	11.7	26.3	21.8	29.7	30.5	26.7	34.6	22.0	19.1	25.0	78.0	75.0	80.9	30.7	27.2	33.3	22.0	18.2	26.5	
18	Region 19	11.4	9.9	14.7	9.4	8.6	10.6	25.7	23.7	30.7	30.9	27.3	34.1	22.6	19.8	25.3	77.4	74.7	80.2	30.4	27.5	33.0	21.9	18.6	25.0	
9	Region 20	12.9	11.6	16.4	9.7	9.2	11.1	24.7	22.4	27.4	29.8	28.5	31.1	22.8	20.3	26.5	77.2	73.5	79.7	30.8	25.9	34.9	21.5	18.7	24.7	
25	Region 21	12.0	8.9	15.4	9.6	9.1	10.6	26.3	23.3	30.3	29.8	25.7	32.7	22.3	20.3	26.3	77.7	73.7	79.7	30.7	26.0	36.7	20.8	8.9	25.3	
33	Region 22	12.5	10.7	13.8	9.8	9.2	11.1	26.8	24.2	29.2	29.7	25.7	33.9	21.1	18.2	23.0	78.9	77.0	81.8	29.4	26.1	35.5	20.9	17.2	25.3	
99	Region 23	12.2	5.9	14.4	10.1	8.5	49.6	26.5	14.6	29.9	30.3	17.0	35.6	20.9	12.9	24.2	79.1	75.8	87.1	29.9	20.6	36.5	21.2	11.9	29.0	
36	Region 24	11.7	9.5	14.1	9.6	8.7	11.2	26.8	24.0	29.7	29.6	25.3	32.6	22.2	20.4	25.5	77.8	74.5	79.6	31.5	25.5	36.4	22.6	19.7	27.6	
18	Region 25	12.9	7.3	14.6	9.7	8.1	11.1	27.0	23.7	30.0	28.8	24.8	37.6	21.6	19.9	23.9	78.4	76.1	80.1	29.6	22.0	34.0	20.6	13.9	24.7	
8	Region 26	14.7	8.8	27.8	9.3	8.3	10.1	24.5	20.7	28.3	29.3	21.0	35.3	22.2	18.7	27.4	77.8	72.6	81.3	30.6	26.5	37.3	20.9	17.1	29.5	
7	Region 27	10.6	9.7	13.5	8.7	8.5	9.6	26.8	24.7	28.6	31.5	28.8	33.6	22.4	19.6	23.5	77.6	76.5	80.4	29.6	27.1	35.1	20.0	17.2	21.2	
17	Region 28	13.2	11.5	14.8	9.8	9.3	10.6	28.2	25.2	31.6	28.9	26.0	31.2	19.9	17.8	21.7	80.1	78.3	82.2	27.6	25.0	31.0	19.7	15.6	25.1	
15	Region 29	14.0	12.3	16.3	9.8	9.2	10.3	28.1	25.0	30.2	27.8	24.8	30.0	20.4	18.2	23.8	79.6	76.2	81.8	27.3	24.1	34.5	17.3	12.9	21.1	
21	Region 30	13.2	11.4	15.3	9.7	9.1	10.6	26.0	22.5	28.3	27.8	24.8	32.2	23.3	20.9	27.3	76.7	72.7	79.1	29.8	24.1	33.6	20.7	15.2	26.8	
7	Region 31	13.3	11.8	14.8	9.9	9.1	10.4	27.3	25.8	29.1	28.8	26.3	30.4	20.8	18.8	25.1	79.2	74.9	81.2	25.1	21.0	31.9	14.9	6.7	22.9	
21	Region 32	13.4	12.3	14.7	9.7	9.1	10.4	26.7	23.3	30.3	28.6	26.6	31.4	21.7	18.6	24.9	78.3	75.1	81.4	28.2	19.2	34.3	17.9	5.4	25.6	
21	Region 33	13.6	9.8	15.4	10.3	9.5	11.3	26.3	23.9	28.7	26.8	23.6	29.2	23.1	18.2	25.7	76.9	74.3	81.8	30.5	12.4	37.9	21.6	16.4	29.6	
25	Region 34	13.5	11.7	15.9	10.0	9.3	11.1	27.1	24.5	29.5	28.2	24.2	31.6	21.2	18.2	23.3	78.8	76.7	81.8	32.2	22.6	39.6	21.5	9.7	28.3	
10	Region 35	11.8	8.4	13.0	9.4	8.5	10.0	26.6	25.1	29.7	29.4	26.9	34.6	22.8	19.4	25.9	77.2	74.1	80.6	27.7	19.2	33.2	20.1	12.7	25.0	
7	Region 36	12.5	11.8	13.1	9.6	9.5	9.9	24.7	23.3	26.4	30.9	29.3	32.9	22.3	20.4	24.4	77.7	75.6	79.6	30.2	27.9	33.5	18.7	15.9	23.6	
<b>563</b>	<b>Ave white</b>	<b>12.4</b>	<b>5.9</b>	<b>27.8</b>	<b>9.7</b>	<b>8.1</b>	<b>49.6</b>	<b>26.6</b>	<b>14.6</b>	<b>31.6</b>	<b>29.7</b>	<b>17.0</b>	<b>37.6</b>	<b>21.6</b>	<b>12.9</b>	<b>28.0</b>	<b>78.4</b>	<b>72.0</b>	<b>87.1</b>	<b>29.5</b>	<b>12.4</b>	<b>39.6</b>	<b>20.5</b>	<b>5.4</b>	<b>29.6</b>	
	<b>Min white</b>																									
	<b>Max white</b>																									