

TABLE 17: ROFF MILLING AND WHITENESS INDEX OF WHITE MAIZE ACCORDING TO GRADE (2020/21)																										
Number of samples	Region	Roﬀ Milling										Whiteness index														
		Break 1, %		Break 2, %		Break 3, %		Grits, %		Chop, %		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.							
GRADE: WM1																										
8	12	15.0	14.1	15.4	9.2	8.7	9.6	15.8	14.5	17.0	36.3	35.8	37.6	23.7	22.3	26.0	76.3	74.0	77.7	40.3	38.1	43.6	30.7	28.0	36.1	
23	13	14.8	11.8	17.0	8.9	8.3	9.8	15.8	14.9	16.6	37.2	33.7	41.2	23.4	20.5	25.7	76.6	74.3	79.5	38.6	31.9	42.5	29.6	21.7	36.4	
25	14	15.5	13.9	17.1	9.4	8.8	10.1	16.7	13.6	18.7	36.2	28.1	41.5	22.2	19.1	33.4	77.8	66.6	80.9	40.4	36.9	44.1	31.1	24.5	39.9	
6	16	15.5	14.9	16.6	9.1	8.6	9.8	17.5	16.5	19.9	35.0	33.1	37.1	22.9	21.2	24.1	77.1	75.9	78.8	38.6	35.5	40.8	29.4	25.3	33.8	
15	17	15.8	14.5	16.9	9.2	8.2	9.7	16.3	13.9	19.3	36.5	31.9	40.0	22.2	20.1	25.9	77.8	74.1	79.9	39.7	36.7	43.0	30.0	26.1	34.8	
24	18	14.6	11.7	16.3	9.0	8.5	9.7	16.5	14.9	19.9	37.4	34.6	41.0	22.5	21.2	26.3	77.5	73.7	78.8	38.1	29.1	43.1	28.8	19.7	37.0	
17	19	14.3	12.2	16.2	9.0	8.3	9.8	15.7	15.1	16.6	37.5	31.6	41.6	23.6	21.6	26.3	76.4	73.7	78.4	39.5	29.6	47.7	29.6	25.2	35.2	
15	20	14.8	12.7	17.9	8.8	8.1	9.5	15.6	13.4	16.7	37.4	32.1	40.1	23.4	21.6	25.5	76.6	74.5	78.4	39.6	32.8	44.1	29.7	25.9	32.7	
27	21	15.2	13.0	19.1	9.2	8.4	10.6	17.2	9.6	20.1	36.4	31.5	40.1	21.8	19.0	24.5	78.1	75.5	81.0	37.5	32.4	42.1	27.5	21.0	39.0	
9	22	15.4	13.7	17.1	9.5	8.9	10.2	17.7	16.3	20.5	34.8	32.5	36.8	22.5	19.8	24.3	77.5	75.7	80.2	39.4	34.7	43.1	28.8	24.0	32.7	
31	23	15.5	13.7	17.5	9.4	8.8	10.5	17.9	16.1	20.4	35.6	30.3	39.4	21.6	19.6	23.8	78.4	76.2	80.4	37.5	32.6	43.8	27.5	21.6	40.8	
10	24	15.2	13.3	19.0	9.3	8.6	10.1	17.0	14.8	20.1	36.1	28.0	40.7	22.4	21.0	26.5	77.6	73.5	79.0	36.9	33.4	40.3	27.2	24.3	31.4	
5	26	16.2	14.5	17.9	9.6	9.2	10.1	16.4	15.6	17.0	35.9	33.9	39.0	21.9	20.4	23.7	78.1	76.3	79.6	38.9	36.1	41.7	28.8	26.7	31.3	
3	27	15.5	14.3	16.6	9.4	9.2	9.7	16.6	14.6	18.8	35.6	33.8	37.0	22.9	20.5	25.8	77.1	74.2	79.5	38.2	32.3	43.3	27.6	22.1	32.6	
12	28	13.3	7.0	17.4	8.9	7.0	9.9	17.3	15.6	19.1	39.4	34.5	49.4	21.0	18.7	22.9	79.0	77.1	81.3	32.8	21.1	41.2	24.3	14.3	35.1	
26	29	13.3	10.9	15.8	8.7	8.0	9.4	16.9	15.4	19.6	38.3	32.0	41.8	22.7	19.5	24.9	77.3	75.1	80.5	34.5	24.8	40.8	25.3	12.6	37.6	
23	30	12.9	10.7	15.5	8.8	8.3	9.6	16.5	15.1	18.7	39.2	35.7	42.9	22.7	20.7	25.8	77.3	74.2	79.3	33.7	28.6	38.2	24.6	18.0	29.0	
10	31	13.0	10.4	13.9	8.6	8.0	9.3	17.0	15.5	18.8	39.0	37.2	43.5	22.5	20.2	25.3	77.5	74.7	79.8	32.0	28.8	35.0	21.8	17.3	25.9	
13	32	13.6	11.2	16.8	8.8	8.0	9.5	17.0	15.8	18.7	38.5	34.3	42.9	22.0	20.5	23.5	78.0	76.5	79.5	32.8	26.3	41.9	23.2	16.4	33.5	
40	33	13.4	11.5	15.7	8.7	8.3	9.9	16.5	14.4	18.6	39.5	35.3	42.2	21.9	18.8	26.4	78.1	73.6	81.2	33.7	28.9	39.1	24.9	20.1	33.7	
21	34	13.6	11.9	16.1	8.7	8.2	9.6	16.8	14.2	20.4	38.5	31.7	40.6	22.5	18.6	28.9	77.5	71.1	81.4	36.3	29.4	43.2	28.2	19.1	39.7	
6	35	13.0	11.6	15.5	8.6	8.3	9.2	17.7	16.1	20.8	39.9	35.1	43.7	20.8	18.8	23.0	79.2	77.0	81.2	34.2	28.8	38.1	25.0	19.9	29.0	
17	36	13.0	11.7	15.1	8.5	7.9	9.4	16.5	15.7	17.8	40.1	37.9	42.7	21.9	19.6	23.9	78.1	76.1	80.4	34.7	30.5	37.2	26.4	19.9	34.5	
2	25	16.2	16.1	16.3	9.1	9.0	9.2	16.2	15.2	17.3	35.6	33.9	37.2	22.9	20.2	25.6	77.1	74.4	79.8	35.2	34.1	36.3	24.0	24.0	24.0	
388	Ave. WM1	14.3	7.0	19.1	9.0	7.0	10.6	16.7	9.6	20.8	37.6	28.0	49.4	22.4	18.6	33.4	77.6	66.6	81.4	36.7	21.1	47.7	27.3	12.6	40.8	
	Min. WM1																									
	Max. WM1																									

TABLE 17: ROFF MILLING AND WHITENESS INDEX OF WHITE MAIZE ACCORDING TO GRADE (2020/21)

(continue)

Number of samples	Region	Roff Milling												Whiteness index											
		Break 1, %			Break 2, %			Break 3, %			Grits, %			Chop, %			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.
GRADE: WM2																									
1	11	12.9	12.9	12.9	8.4	8.4	8.4	16.7	16.7	16.7	41.4	41.4	41.4	20.5	20.5	20.5	79.5	79.5	79.5	34.0	34.0	34.0	25.9	25.9	25.9
3	12	15.1	14.8	15.5	9.6	8.6	10.4	15.9	15.6	16.4	36.1	35.5	36.9	23.3	22.9	24.1	76.7	75.9	77.1	39.9	38.1	41.5	35.4	29.9	40.4
4	13	14.5	13.3	16.6	9.1	8.5	9.5	16.3	15.3	17.2	37.6	35.1	39.2	22.6	20.5	24.0	77.4	76.0	79.5	39.4	36.4	41.5	31.9	27.7	37.4
9	14	15.2	12.7	16.7	9.2	8.3	9.8	16.6	14.2	17.4	36.4	34.5	38.3	22.6	21.0	26.6	77.4	73.4	79.0	39.9	35.7	43.3	30.0	26.6	34.2
1	16	14.3	14.3	14.3	8.9	8.9	8.9	17.2	17.2	17.2	37.4	37.4	37.4	22.3	22.3	22.3	77.7	77.7	77.7	33.2	33.2	33.2	23.7	23.7	23.7
2	17	15.3	15.1	15.5	9.4	9.0	9.7	16.0	15.4	16.6	36.4	36.3	36.6	22.9	22.0	23.9	77.1	76.1	78.0	38.1	37.6	38.6	29.2	27.5	30.9
3	18	14.7	13.6	15.8	9.0	8.7	9.2	16.3	15.9	16.7	37.4	36.5	38.4	22.5	21.0	23.4	77.5	76.6	79.0	39.5	36.6	43.4	34.7	28.0	42.8
5	19	15.4	13.7	18.5	9.3	8.5	10.2	15.7	15.0	16.7	34.5	31.4	36.5	25.1	23.2	26.5	74.9	73.5	76.8	42.3	40.9	45.1	34.8	31.1	44.3
1	20	16.8	16.8	16.8	9.9	9.9	9.9	15.9	15.9	15.9	34.6	34.6	34.6	22.8	22.8	22.8	77.2	77.2	77.2	37.3	37.3	37.3	26.6	26.6	26.6
3	21	15.2	12.5	16.6	9.6	9.1	9.9	18.3	17.1	19.9	35.8	32.6	39.1	21.2	20.8	21.4	78.8	78.6	79.2	36.9	30.7	40.2	25.4	20.0	28.4
2	22	15.8	15.4	16.2	9.7	9.7	9.7	15.6	15.2	16.0	34.6	34.1	35.2	24.3	24.0	24.6	75.7	75.4	76.0	39.3	38.4	40.2	30.2	30.1	30.3
6	23	15.7	13.8	17.5	9.5	9.3	10.0	17.2	16.2	19.6	35.3	31.9	38.9	22.2	20.9	25.1	77.8	74.9	79.1	38.8	34.4	44.2	29.0	24.7	37.3
2	24	15.8	15.5	16.1	9.6	9.4	9.9	16.9	15.2	18.6	33.2	31.8	34.6	24.5	21.4	27.6	75.5	72.4	78.6	37.3	34.5	40.2	28.2	25.2	31.3
2	26	16.2	16.1	16.3	9.5	9.2	9.9	16.4	15.8	17.0	36.8	36.7	36.8	21.1	20.1	22.1	78.9	77.9	79.9	36.7	33.9	39.4	24.7	20.8	28.6
2	27	15.9	15.7	16.1	9.8	9.8	9.9	16.4	16.3	16.4	35.9	35.8	35.9	22.0	21.8	22.2	78.0	77.8	78.2	42.6	41.9	43.4	32.2	30.6	33.7
1	29	11.8	11.8	11.8	8.6	8.6	8.6	17.2	17.2	17.2	37.8	37.8	37.8	24.6	24.6	24.6	75.4	75.4	75.4	29.8	29.8	29.8	20.9	20.9	20.9
7	30	12.4	10.8	14.4	8.7	8.2	9.1	16.1	15.3	17.0	40.9	38.1	43.2	21.9	20.1	23.7	78.1	76.3	79.9	30.9	28.1	35.3	21.2	16.9	27.8
7	31	12.4	11.9	13.4	8.7	8.2	9.3	16.4	15.2	18.8	40.2	36.9	42.3	22.3	20.4	25.2	77.7	74.8	79.6	31.2	27.7	35.2	22.7	18.9	25.6
8	32	12.8	11.2	15.0	8.5	7.8	9.2	17.7	15.8	20.5	39.7	35.8	42.8	21.2	19.6	22.7	78.8	77.3	80.4	29.0	25.4	32.9	19.2	14.4	24.0
10	33	13.2	11.3	16.4	9.0	8.4	9.8	16.2	15.4	17.9	39.3	35.2	42.9	22.4	21.0	23.5	77.6	76.5	79.0	32.8	30.2	39.6	24.6	20.1	36.1
4	34	13.2	12.2	14.5	8.6	8.4	8.9	16.3	16.1	16.6	39.5	36.8	40.6	22.4	21.4	23.9	77.6	76.1	78.6	35.5	33.1	37.0	28.8	23.0	36.6
1	35	12.9	12.9	12.9	8.2	8.2	8.2	16.6	16.6	16.6	39.4	39.4	39.4	22.9	22.9	22.9	77.1	77.1	77.1	30.1	30.1	30.1	20.9	20.9	20.9
6	36	12.5	11.6	13.1	9.2	8.0	12.4	16.8	16.3	17.4	39.5	38.6	40.2	22.0	19.3	23.1	78.0	76.9	80.7	34.0	31.5	36.5	26.6	21.6	38.0
90	Ave. WM2	14.0			9.1			16.6	14.2	20.5	37.9	31.4	43.2	22.5	19.3	27.6	77.5	72.4	80.7	35.6	25.4	45.1	26.9	14.4	44.3
	Min. WM2	10.8			7.8			14.2			31.4		43.2												
	Max. WM2	18.5			12.4			20.5			43.2			27.6											

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(continue)

Number of samples	Region	Roff Milling																		Whiteness index					
		Break 1, %			Break 2, %			Break 3, %			Grits, %			Chop, %			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.
CLASS: COM																									
1	11	13.7	13.7	13.7	8.8	8.8	8.8	17.8	17.8	17.8	35.0	35.0	35.0	24.8	24.8	24.8	75.2	75.2	75.2	41.1	41.1	41.1	29.9	29.9	29.9
3	12	14.5	14.0	15.2	8.4	8.1	8.6	16.5	16.2	16.9	38.1	37.4	39.4	22.5	22.0	23.0	77.5	77.0	78.0	37.0	36.3	37.9	30.4	26.3	37.2
1	13	14.1	14.1	14.1	8.2	8.2	8.2	15.4	15.4	15.4	37.8	37.8	37.8	24.5	24.5	24.5	75.5	75.5	75.5	36.9	36.9	36.9	27.3	27.3	27.3
3	14	14.6	12.9	15.5	9.5	9.4	9.5	16.0	15.2	17.1	37.7	36.7	38.6	22.3	20.9	24.7	77.7	75.3	79.1	42.3	40.4	43.5	32.8	29.6	36.3
4	17	16.1	15.0	18.2	9.2	8.7	9.8	15.7	14.2	17.3	34.8	32.0	35.9	24.2	23.0	26.8	75.8	73.2	77.0	40.3	39.0	43.0	29.8	27.3	33.2
1	18	12.9	12.9	12.9	9.0	9.0	9.0	17.2	17.2	17.2	39.4	39.4	39.4	21.5	21.5	21.5	78.5	78.5	78.5	30.5	30.5	30.5	19.7	19.7	19.7
2	19	14.2	12.8	15.6	9.0	8.3	9.7	15.9	15.6	16.2	37.2	34.6	39.7	23.8	23.6	24.0	76.2	76.0	76.4	40.5	39.3	41.8	33.5	30.6	36.4
3	21	14.2	11.9	15.7	9.5	9.3	9.7	17.4	16.6	18.8	36.1	34.0	39.4	22.9	22.3	23.6	77.1	76.4	77.7	39.8	35.9	42.9	29.4	26.1	33.5
2	22	15.6	15.5	15.8	9.2	8.8	9.6	15.5	14.7	16.2	34.0	32.9	35.0	25.7	25.4	26.0	74.3	74.0	74.6	37.7	36.8	38.6	26.8	25.3	28.3
5	23	15.9	14.8	17.6	9.9	9.2	10.1	19.0	17.0	20.0	33.7	32.6	36.3	21.5	21.2	21.8	78.5	78.2	78.8	35.8	34.6	37.8	25.6	23.6	26.5
1	24	14.9	14.9	14.9	8.9	8.9	8.9	17.0	17.0	17.0	37.0	37.0	37.0	22.2	22.2	22.2	77.8	77.8	77.8	35.8	35.8	35.8	25.5	25.5	25.5
1	28	15.1	15.1	15.1	8.5	8.5	8.5	17.2	17.2	17.2	37.6	37.6	37.6	21.7	21.7	21.7	78.3	78.3	78.3	31.5	31.5	31.5	22.8	22.8	22.8
2	30	14.5	14.3	14.8	9.2	9.0	9.5	16.6	16.4	16.8	37.6	37.4	37.9	22.0	21.1	23.0	78.0	77.0	78.9	34.9	33.6	36.2	25.0	24.7	25.2
1	31	16.1	16.1	16.1	10.5	10.5	10.5	18.5	18.5	18.5	33.6	33.6	33.6	21.3	21.3	21.3	78.7	78.7	78.7	36.5	36.5	36.5	26.9	26.9	26.9
4	32	13.3	11.2	14.5	8.7	8.0	9.1	17.0	16.2	18.8	39.1	35.4	42.6	21.9	20.0	24.4	78.1	75.6	80.0	32.1	29.3	34.3	22.6	19.1	27.5
3	33	10.5	9.1	11.6	8.8	8.2	9.3	15.1	14.5	15.6	42.9	41.2	45.1	22.8	21.9	23.5	77.2	76.5	78.1	20.8	7.9	35.0	11.0	-5.0	26.6
4	34	13.6	12.0	15.1	8.5	8.1	9.1	16.4	15.8	17.0	38.5	34.7	40.1	23.1	21.4	25.3	76.9	74.7	78.6	33.8	30.0	39.4	25.5	20.7	31.9
4	36	13.5	12.5	14.5	8.6	8.3	9.0	16.1	15.7	16.5	38.4	36.9	40.2	23.3	22.8	23.7	76.7	76.3	77.2	33.5	30.6	35.8	23.2	18.8	26.3
1	25	19.2	19.2	19.2	10.7	10.7	10.7	16.4	16.4	16.4	31.6	31.6	31.6	22.2	22.2	22.2	77.8	77.8	77.8	38.1	38.1	38.1	28.4	28.4	28.4
46	Ave. COM	14.4			9.1			16.7			37.1			22.8			77.2			35.5			26.0		
	Min. COM	9.1			8.0			14.2			31.6			20.0			73.2			7.9			-5.0		
	Max. COM	19.2			10.7			20.0			45.1			26.8			80.0			43.5			37.2		
560	Ave. WM	14.3			9.0			16.7			37.5			22.4			77.6			36.3			27.0		
	Min. WM	7.0			7.0			9.6			28.0			18.6			66.6			7.9			-5.0		
	Max. WM	19.2			12.4			20.8			49.4			33.4			81.4			47.7			44.3		