

TABLE 23: ROFF MILLING OF WHITE MAIZE (2004/2005)

Number of samples	Region	Roﬀ Milling																	
		Break 1, %			Break 2, %			Break 3, %			Grits, %			Bran/Germ, %			Extraction, % (Total meal)		
		ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.
GRADE: WHITE																			
3	Region 10	12.6	12.2	13.0	9.4	9.3	9.5	23.3	22.8	23.7	34.9	33.5	36.8	19.8	18.7	21.0	80.2	79.0	81.3
1	Region 11	13.4	13.4	13.4	9.9	9.9	9.9	26.7	26.7	26.7	30.5	30.5	30.5	19.5	19.5	19.5	80.5	80.5	80.5
16	Region 12	11.0	8.4	12.5	9.3	8.3	10.8	23.0	20.9	27.3	35.2	31.9	40.6	21.5	18.1	24.0	78.5	76.0	81.9
11	Region 13	12.3	10.3	14.2	9.4	8.6	10.1	21.8	20.6	23.2	33.6	31.3	35.9	22.9	20.8	23.8	77.1	76.2	79.2
28	Region 14	11.6	9.6	14.5	9.2	6.5	11.7	23.2	20.4	25.4	34.2	29.9	37.2	21.8	19.2	25.0	78.2	75.0	80.8
13	Region 15	11.4	9.8	13.1	9.1	8.4	9.7	23.1	20.0	24.7	35.5	31.5	38.8	20.9	17.7	25.6	79.1	74.4	82.3
23	Region 16	12.0	10.9	13.8	9.4	8.8	10.3	23.7	22.0	26.3	34.2	30.6	38.8	20.6	17.2	23.9	79.4	76.1	82.8
26	Region 17	12.8	11.8	13.6	9.8	9.3	10.4	23.3	21.1	25.6	32.4	29.3	36.3	21.7	19.6	24.1	78.3	75.9	80.4
19	Region 18	12.8	11.3	14.0	9.8	8.9	10.8	23.7	19.9	26.8	31.9	29.1	34.5	21.8	19.8	25.3	78.2	74.7	80.2
16	Region 19	12.3	10.6	13.6	9.7	9.0	10.9	22.4	20.6	23.8	33.3	30.6	36.4	22.3	20.7	25.0	77.7	75.0	79.3
10	Region 20	13.2	12.1	13.9	9.7	9.3	10.1	22.9	21.0	24.6	32.0	30.0	33.5	22.2	20.5	25.1	77.8	74.9	79.5
43	Region 21	12.2	10.0	13.4	9.7	8.8	10.7	23.2	21.2	27.1	33.0	30.0	35.5	21.9	18.7	24.8	78.1	75.2	81.3
53	Region 22	11.6	8.6	14.3	9.5	8.7	10.2	23.9	21.0	28.5	34.7	30.3	39.0	20.4	16.8	24.3	79.6	75.7	83.2
66	Region 23	10.8	9.2	13.6	9.4	8.5	10.2	24.2	20.9	28.0	35.0	30.8	38.8	20.5	16.9	24.1	79.5	75.9	83.1
41	Region 24	11.1	7.9	14.0	9.2	5.9	10.2	23.2	18.5	27.0	35.1	30.7	41.1	21.4	18.7	25.2	78.6	74.8	81.3
12	Region 25	13.4	11.0	15.2	9.6	8.9	10.9	22.7	20.1	25.1	33.3	30.2	38.1	21.1	19.0	23.2	78.9	76.8	81.0
17	Region 26	13.3	11.4	16.9	10.0	9.4	10.9	23.5	20.8	25.9	31.9	26.5	35.2	21.4	19.5	23.9	78.9	76.1	80.5
13	Region 27	12.3	10.5	13.9	9.4	6.7	11.3	23.0	21.5	25.6	32.8	29.8	37.4	22.6	20.0	26.2	77.4	73.8	79.9
23	Region 28	13.1	9.4	15.5	10.0	9.0	11.1	23.6	21.4	26.1	31.4	28.4	38.3	21.9	19.7	24.1	78.1	75.9	80.3
28	Region 29	13.6	11.2	17.5	9.9	8.9	11.7	22.8	19.2	26.3	31.5	26.0	34.2	22.2	18.5	26.9	77.8	73.1	81.5
26	Region 30	13.9	11.4	15.5	9.7	8.7	10.7	22.0	18.9	24.8	31.5	27.0	36.0	23.0	19.3	27.2	77.0	72.8	80.7
15	Region 31	13.0	10.6	15.9	9.6	9.0	10.6	22.4	20.1	26.1	32.6	29.3	36.4	22.4	18.5	25.3	77.6	74.7	81.5
22	Region 32	13.0	12.1	14.1	9.7	9.0	10.3	22.1	19.1	24.5	32.6	30.1	34.5	22.6	19.7	25.8	77.4	74.2	80.3
11	Region 33	12.5	10.3	14.9	9.4	8.4	9.8	21.7	18.9	26.2	32.9	28.6	34.6	23.5	20.6	27.2	76.5	72.8	79.4
43	Region 34	12.7	10.9	15.1	9.9	9.1	10.8	22.8	20.1	25.7	32.3	28.1	35.6	22.3	19.6	25.7	77.7	74.3	80.4
8	Region 35	11.3	8.6	12.6	9.6	8.9	9.9	23.3	22.2	24.0	34.0	31.5	39.5	21.9	19.6	23.2	78.1	76.8	80.4
14	Region 36	13.2	12.1	15.0	9.3	8.3	9.8	21.6	20.1	23.8	33.6	28.5	38.2	22.3	19.6	25.9	77.7	74.1	80.4
601	Ave white	12.2			9.6			23.1			33.4			21.7			78.3		
	Min white	7.9			5.9			18.5			26.0			16.8			72.8		
	Max white	17.5			11.7			28.5			41.1			27.2			83.2		

TABLE 23: ROFF MILLING OF WHITE MAIZE ACCORDING TO GRADE (2004/2005)

Number of samples	Region	Roff Milling																	
		Break 1, %			Break 2, %			Break 3, %			Grits, %			Bran/Germ, %			Extraction, % (Total meal)		
		ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.
GRADE: WM 1																			
3	Region 10	12.6	12.2	13.0	9.4	9.3	9.5	23.3	22.8	23.7	34.9	33.5	36.8	19.8	18.7	21.0	80.2	79.0	81.3
1	Region 11	13.4	13.4	13.4	9.9	9.9	9.9	26.7	26.7	26.7	30.5	30.5	30.5	19.5	19.5	19.5	80.5	80.5	80.5
10	Region 12	10.6	8.4	12.4	9.2	8.3	9.9	22.6	20.9	24.8	36.0	32.4	40.6	21.7	18.3	24.0	78.3	76.0	81.7
7	Region 13	12.0	11.1	13.3	9.4	9.2	9.8	22.0	21.1	23.2	33.6	31.7	34.8	23.1	22.2	23.8	76.9	76.2	77.8
19	Region 14	11.5	9.6	14.1	9.0	6.5	9.7	23.2	21.6	25.4	34.4	31.6	37.2	21.8	19.2	23.6	78.2	76.4	80.8
8	Region 15	11.3	10.4	12.4	9.2	8.4	9.7	23.8	21.0	24.7	35.8	33.6	37.9	20.0	17.7	22.1	80.0	77.9	82.3
22	Region 16	12.0	10.9	13.8	9.4	8.8	10.3	23.8	22.1	26.3	34.2	30.6	38.8	20.6	17.2	23.9	79.4	76.1	82.8
22	Region 17	12.7	11.8	13.6	9.8	9.3	10.4	23.5	21.6	25.6	32.4	29.3	36.3	21.6	19.6	24.0	78.4	76.0	80.4
17	Region 18	12.9	12.0	14.0	9.8	8.9	10.8	23.7	19.9	26.8	32.1	29.1	34.5	21.5	19.8	24.5	78.5	75.5	80.2
13	Region 19	12.4	10.6	13.6	9.6	9.0	10.0	22.4	20.6	23.8	33.3	31.2	36.4	22.2	20.7	24.4	77.8	75.6	79.3
8	Region 20	13.1	12.1	13.6	9.7	9.3	10.1	23.2	21.0	24.6	32.1	30.6	33.5	22.0	20.5	24.5	78.0	75.5	79.5
39	Region 21	12.2	10.0	13.3	9.7	8.8	10.5	23.3	21.2	27.1	33.0	30.0	35.5	21.9	18.7	24.5	78.1	75.5	81.3
49	Region 22	11.5	8.6	13.2	9.5	8.7	10.2	24.0	21.0	28.5	34.7	30.3	39.0	20.3	16.8	24.3	79.7	75.7	83.2
51	Region 23	10.8	9.2	13.6	9.5	8.5	10.2	24.2	20.9	28.0	35.3	30.8	38.8	20.3	16.9	23.4	79.7	76.6	83.1
40	Region 24	11.2	9.0	14.0	9.3	5.9	10.2	23.2	18.5	27.0	34.9	30.7	41.1	21.4	18.7	25.2	78.6	74.8	81.3
12	Region 25	13.4	11.0	15.2	9.6	8.9	10.9	22.7	20.1	25.1	33.3	30.2	38.1	21.1	19.0	23.2	78.9	76.8	81.0
13	Region 26	13.1	12.1	15.3	10.0	9.4	10.5	23.5	20.8	25.9	32.2	27.9	34.0	21.4	19.8	23.9	78.6	76.1	80.2
10	Region 27	12.2	10.5	13.9	9.4	6.7	11.3	23.3	21.5	25.6	33.1	30.0	37.4	22.0	20.1	26.2	78.0	73.8	79.9
12	Region 28	13.1	9.4	15.5	10.1	9.0	11.1	23.8	21.4	26.1	31.4	28.4	38.3	21.6	19.7	23.7	78.4	76.3	80.3
23	Region 29	13.6	11.8	17.5	9.8	8.9	11.0	22.9	20.0	26.3	31.6	26.0	34.2	22.2	18.5	25.9	77.8	74.1	81.5
16	Region 30	13.9	11.7	15.5	9.7	8.7	10.7	21.8	19.8	24.8	31.8	29.9	36.0	22.9	19.3	25.2	77.1	74.8	80.7
8	Region 31	12.9	10.6	14.1	9.6	9.0	10.1	22.5	20.1	26.1	32.5	29.7	36.4	22.5	19.3	25.3	77.5	74.7	80.7
21	Region 32	13.0	12.1	14.1	9.7	9.0	10.3	22.1	19.1	24.5	32.6	30.1	34.5	22.6	19.7	25.8	77.4	74.2	80.3
10	Region 33	12.5	10.3	14.9	9.4	8.4	9.8	21.6	18.9	26.2	32.8	28.6	34.6	23.7	20.6	27.2	76.3	72.8	79.4
40	Region 34	12.7	10.9	15.1	9.9	9.1	10.8	22.8	20.1	25.7	32.3	28.1	35.6	22.2	19.6	25.6	77.8	74.4	80.4
8	Region 35	11.3	8.6	12.6	9.6	8.9	9.9	23.3	22.2	24.0	34.0	31.5	39.5	21.9	19.6	23.2	78.1	76.8	80.4
11	Region 36	13.2	12.1	15.0	9.2	8.3	9.8	21.6	20.7	23.8	33.7	28.5	38.2	22.2	19.6	25.9	77.8	74.1	80.4
493	Ave WM 1	12.2			9.6			23.2			33.5			21.5			78.5		
	Min WM 1		8.4			5.9			18.5			26.0			16.8			72.8	
	Max WM 1			17.5			11.3			28.5			41.1			27.2			83.2

TABLE 23: ROFF MILLING OF WHITE MAIZE ACCORDING TO GRADE (2004/2005)
(continue)

Number of samples	Region	Roff Milling																	
		Break 1, %			Break 2, %			Break 3, %			Grits, %			Bran/Germ, %			Extraction, % (Total meal)		
		ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.
GRADE: WM 2																			
4	Region 12	11.8	11.5	12.5	9.4	9.1	9.9	22.8	21.0	25.4	34.0	32.4	35.9	22.0	20.6	23.6	78.0	76.4	79.4
2	Region 13	13.3	12.5	14.2	9.4	8.6	10.1	21.7	21.1	22.3	33.6	31.3	35.8	22.1	20.8	23.3	77.9	76.7	79.2
4	Region 14	11.5	11.0	12.3	9.1	8.7	9.4	23.9	22.9	24.9	34.0	31.7	36.5	21.4	19.3	24.9	78.6	75.1	80.7
4	Region 15	11.6	9.8	13.1	9.0	8.5	9.3	22.1	20.0	23.8	35.6	31.5	38.8	21.7	19.2	24.4	78.3	75.6	80.8
1	Region 16	11.4	11.4	11.4	9.5	9.5	9.5	22.0	22.0	22.0	34.8	34.8	34.8	22.4	22.4	22.4	77.6	77.6	77.6
3	Region 17	13.0	12.0	13.6	10.0	9.8	10.4	22.4	21.1	23.2	31.6	29.8	33.2	23.0	21.0	24.1	77.0	75.9	79.0
2	Region 18	12.0	11.3	12.7	9.6	9.5	9.6	23.6	23.5	23.7	30.3	30.3	30.4	24.5	23.8	25.3	75.5	74.7	76.2
3	Region 19	12.0	10.8	13.1	10.0	9.3	10.9	22.0	21.7	22.7	33.4	30.6	36.1	22.6	21.0	25.0	77.4	75.0	79.0
2	Region 20	13.7	13.4	13.9	9.6	9.6	9.6	22.0	21.3	22.6	31.8	30.0	33.5	23.0	20.8	25.1	77.0	74.9	79.2
4	Region 21	12.6	11.2	13.4	10.2	9.3	10.7	22.5	21.3	24.0	32.3	30.3	34.3	22.4	20.8	24.8	77.6	75.2	79.2
3	Region 22	11.4	10.1	12.2	9.7	9.5	9.9	22.3	21.3	23.3	35.2	34.6	35.8	21.4	20.2	23.4	78.6	76.6	79.8
10	Region 23	11.0	10.1	12.8	9.4	9.0	9.9	24.3	21.4	26.1	34.2	32.6	36.2	21.1	19.6	23.8	78.9	76.2	80.4
1	Region 24	7.9	7.9	7.9	8.2	8.2	8.2	21.3	21.3	21.3	39.9	39.9	39.9	22.8	22.8	22.8	77.2	77.2	77.2
4	Region 26	13.9	11.4	16.9	10.3	9.8	10.9	23.5	22.0	24.6	30.9	26.5	35.2	21.3	19.5	23.7	78.7	76.3	80.5
3	Region 27	12.5	11.7	13.4	9.5	9.0	9.9	21.8	21.6	22.2	31.7	29.8	34.0	24.5	23.7	25.3	75.5	74.7	76.3
10	Region 28	13.0	10.8	14.9	9.9	9.2	10.7	23.4	21.9	25.1	31.5	29.3	34.9	22.2	20.8	24.1	77.8	75.9	79.2
3	Region 29	14.1	12.7	14.9	10.8	10.1	11.7	23.9	22.7	25.8	31.2	29.6	32.6	20.0	18.9	22.2	80.0	77.8	81.1
9	Region 30	13.9	11.4	15.5	9.7	9.1	10.0	22.8	21.6	24.0	30.9	27.0	33.9	22.7	21.0	25.4	77.3	74.6	79.0
7	Region 31	13.0	11.5	15.9	9.6	9.1	10.6	22.3	20.2	24.1	32.8	29.3	36.0	22.4	18.5	24.1	77.6	75.9	81.5
1	Region 32	12.3	12.3	12.3	9.5	9.5	9.5	20.6	20.6	20.6	33.2	33.2	33.2	24.3	24.3	24.3	75.7	75.7	75.7
3	Region 34	12.5	11.3	14.5	9.9	9.6	10.4	22.5	21.0	23.5	32.2	29.2	34.5	22.8	21.3	25.7	77.2	74.3	78.7
3	Region 36	13.3	13.1	13.7	9.7	9.6	9.8	21.4	20.1	23.2	33.2	32.9	33.6	22.4	21.2	23.1	77.6	76.9	78.8
86	Ave WM 2	12.5			9.7			22.9			32.7			22.2			77.8		
	Min WM 2		7.9			8.2			20.0			26.5			18.5			74.3	
	Max WM 2			16.9			11.7			26.1			39.9			25.7			81.5

TABLE 23: ROFF MILLING OF WHITE MAIZE ACCORDING TO GRADE (2004/2005)
(continue)

Number of samples	Region	Roff Milling																	
		Break 1, %			Break 2, %			Break 3, %			Grits, %			Bran/Germ, %			Extraction, % (Total meal)		
		ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.
GRADE: WM 3																			
2	Region 12	11.4	10.8	12.0	9.9	9.1	10.8	25.2	23.2	27.3	33.8	31.9	35.8	19.7	18.1	21.2	80.3	78.8	81.9
2	Region 13	12.2	10.3	14.1	9.6	9.3	9.8	21.3	20.6	22.0	33.9	32.0	35.9	23.0	22.5	23.5	77.0	76.5	77.5
4	Region 14	11.6	11.1	12.3	9.9	8.5	11.7	22.9	22.2	24.0	34.4	31.1	36.4	21.3	19.3	24.3	78.7	75.7	80.7
1	Region 15	11.0	11.0	11.0	8.8	8.8	8.8	21.3	21.3	21.3	33.2	33.2	33.2	25.6	25.6	25.6	74.4	74.4	74.4
1	Region 17	13.2	13.2	13.2	9.6	9.6	9.6	22.6	22.6	22.6	33.1	33.1	33.1	21.5	21.5	21.5	78.5	78.5	78.5
1	Region 22	14.3	14.3	14.3	9.8	9.8	9.8	23.0	23.0	23.0	31.2	31.2	31.2	21.7	21.7	21.7	78.3	78.3	78.3
5	Region 23	11.1	10.1	12.5	9.2	8.7	9.5	23.7	22.6	25.1	33.8	32.5	34.9	22.2	20.3	24.1	77.8	75.9	79.7
1	Region 28	13.5	13.5	13.5	10.9	10.9	10.9	23.5	23.5	23.5	29.0	29.0	29.0	23.1	23.1	23.1	76.9	76.9	76.9
1	Region 29	15.3	15.3	15.3	10.2	10.2	10.2	22.4	22.4	22.4	28.4	28.4	28.4	23.7	23.7	23.7	76.3	76.3	76.3
1	Region 30	13.8	13.8	13.8	9.5	9.5	9.5	18.9	18.9	18.9	30.6	30.6	30.6	27.2	27.2	27.2	72.8	72.8	72.8
1	Region 33	12.6	12.6	12.6	9.3	9.3	9.3	23.0	23.0	23.0	34.0	34.0	34.0	21.1	21.1	21.1	78.9	78.9	78.9
20	Ave WM 3	12.1			9.6			22.9			33.1			22.3			77.7		
	Min WM 3		10.1			8.5			18.9			28.4		18.1				72.8	
	Max WM 3			15.3			11.7			27.3		36.4			27.2				81.9
GRADE: COM																			
1	Region 14	14.5	14.5	14.5	10.1	10.1	10.1	20.4	20.4	20.4	29.9	29.9	29.9	25.0	25.0	25.0	75.0	75.0	75.0
1	Region 29	11.2	11.2	11.2	9.1	9.1	9.1	19.2	19.2	19.2	33.6	33.6	33.6	26.9	26.9	26.9	73.1	73.1	73.1
2	Ave COM	12.9			9.6			19.8			31.8			26.0			74.0		
	Min COM		11.2			9.1			19.2			29.9		25.0				73.1	
	Max COM			14.5			10.1			20.4		33.6			26.9				75.0
601	Ave white maize	12.2			9.6			23.1			33.4			21.7			78.3		
	Min white maize		7.9			5.9			18.5			26.0		16.8				72.8	
	Max white maize			17.5			11.7			28.5		41.1			27.2				83.2