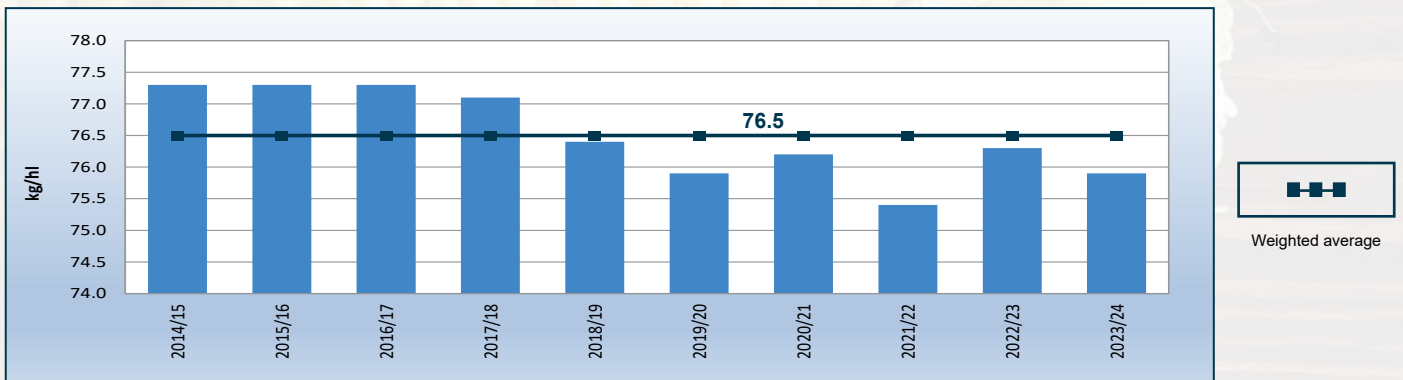


**TABLE 18: PHYSICAL QUALITY CHARACTERISTICS OF WHITE AND YELLOW MAIZE
2014/15 - 2023/24**

Season	Number of samples	Test weight (kg/hl)			100 kernel mass (g)			Kernel size (%)									Breakage susceptibility (%)						Stress cracks (%)			
								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.	
White Maize																										
2014/15	485	78.3	70.2	83.1	31.1	20.3	48.3	15.4	0.3	86.7	66.1	13.1	81.8	18.4	0.0	51.5	1.1	0.0	12.1	0.8	0.0	5.6	6	0	61	
2015/16	415	78.1	68.5	83.9	32.4	20.8	40.8	15.2	0.3	99.4	66.7	0.1	89.5	18.2	0.0	63.8	0.9	0.0	7.2	0.4	0.0	4.3	5	0	30	
2016/17	549	77.7	70.0	81.8	35.0	22.8	43.8	22.1	1.8	64.2	64.1	13.6	82.4	13.7	0.7	62.6	1.2	0.0	9.9	0.8	0.0	9.0	8	0	42	
2017/18	451	77.0	63.4	81.7	34.3	18.3	45.8	26.2	1.5	58.7	62.8	39.8	83.7	11.0	1.5	32.1	1.0	0.0	3.8	0.7	0.0	2.7	11	1	30	
2018/19	404	75.9	61.0	83.6	33.4	18.7	51.1	24.6	0.0	93.8	63.4	5.8	79.9	12.0	0.4	46.8	1.6	0.0	7.9	1.2	0.0	5.6	17	1	58	
2019/20	516	75.6	63.4	82.0	34.9	19.3	44.7	27.8	1.0	63.7	62.0	34.8	83.8	10.2	1.2	49.4	1.1	0.0	6.3	0.8	0.0	4.1	16	2	58	
2020/21	560	75.9	68.5	81.1	33.3	18.9	42.6	21.6	0.0	55.1	65.1	41.8	83.6	13.3	1.3	55.7	0.8	0.0	4.3	0.6	0.0	3.3	12	1	41	
2021/22	524	75.5	66.1	81.0	35.1	14.6	45.9	28.2	0.0	68.6	61.8	29.2	81.6	10.0	0.2	41.2	1.2	0.0	20.2	0.9	0.0	9.2	11	0	50	
2022/23	520	76.3	69.1	81.0	35.3	23.8	53.8	24.5	1.5	62.2	62.9	36.7	80.4	12.5	0.4	39.6	1.1	0.0	10.6	0.9	0.0	6.1	8	0	63	
2023/24	518	76.2	66.9	81.5	31.4	15.1	42.7	18.8	0.0	62.7	62.3	0.6	95.5	18.9	1.6	79.9	0.9	0.0	4.7	0.7	0.0	3.6	4	0	35	
Weighted Average		76.6			33.7			22.5			63.7			13.8			1.1			0.8			10			
Minimum		61.0			14.6			0.0			0.1			0.0			0.0			0.0			0			
Maximum		83.9			53.8			99.4			95.5			79.9			20.2			9.2			63			
Yellow Maize																										
2014/15	515	76.3	67.3	83.1	28.6	17.8	38.2	8.8	0.0	30.2	63.4	9.2	78.9	27.8	4.2	90.4	1.3	0.1	6.8	0.9	0.0	4.8	5	0	56	
2015/16	505	76.7	59.8	81.7	31.8	17.1	43.1	11.8	0.3	34.1	66.6	15.6	93.6	21.6	0.2	77.9	1.0	0.0	4.5	0.5	0.0	4.1	5	0	31	
2016/17	451	76.9	67.6	82.4	33.5	18.4	43.3	11.4	0.0	71.9	65.6	13.0	90.9	23.0	1.6	69.7	1.1	0.1	8.6	0.8	0.0	5.3	8	0	50	
2017/18	449	77.2	59.6	82.5	31.5	15.6	40.7	11.1	0.0	72.4	66.7	24.2	82.2	22.2	2.5	62.0	0.9	0.0	4.7	0.7	0.0	3.3	9	1	38	
2018/19	404	76.9	69.0	83.3	30.6	19.5	41.4	8.3	0.0	33.2	66.4	24.2	85.2	25.3	4.7	74.5	1.0	0.0	6.5	0.7	0.0	3.9	13	2	39	
2019/20	374	76.3	63.9	82.4	30.4	15.0	39.3	8.4	0.0	30.1	65.1	30.2	82.1	26.5	6.1	68.5	1.0	0.0	6.0	0.7	0.0	3.7	13	2	48	
2020/21	440	76.5	70.7	82.6	31.2	19.9	43.8	7.4	0.0	32.5	65.9	5.6	81.8	26.7	6.1	88.1	0.8	0.0	3.5	0.6	0.0	2.5	12	1	49	
2021/22	476	75.4	61.5	80.8	31.1	19.0	42.1	9.4	0.0	54.0	65.7	14.1	82.1	24.9	2.9	85.9	1.1	0.0	4.4	0.9	0.0	3.4	11	0	46	
2022/23	480	76.4	69.1	82.2	31.6	22.2	39.6	7.0	0.0	37.0	62.1	17.4	81.1	30.9	2.8	82.2	1.4	0.0	69.0	1.0	0.0	67.3	8	0	57	
2023/24	482	75.7	66.8	81.4	28.7	16.3	40.5	5.8	0.0	36.1	57.0	6.0	80.4	37.2	3.7	94.0	1.1	0.0	5.2	0.8	0.0	4.6	5	0	42	
Weighted Average		76.4			30.9			9.0			64.4			26.7			1.1			0.8			8			
Minimum		59.6			15.0			0.0			5.6			0.2			0.0			0.0			0			
Maximum		83.3			43.8			72.4			93.6			94.0			69.0			67.3			57			
White & Yellow Maize																										
2014/15	1000	77.3	67.3	83.1	29.8	17.8	48.3	12.0	0.0	86.7	64.7	9.2	81.8	23.2	0.0	90.4	1.2	0.0	12.1	0.8	0.0	5.6	6	0	61	
2015/16	920	77.3	59.8	83.9	32.1	17.1	43.1	13.3	0.3	99.4	66.7	0.1	93.6	20.0	0.0	77.9	1.0	0.0	7.2	0.5	0.0	4.3	5	0	31	
2016/17	1000	77.3	67.6	82.4	34.3	18.4	43.8	17.3	0.0	71.9	64.8	13.0	90.9	17.9	0.7	69.7	1.2	0.0	9.9	0.8	0.0	9.0	11	0	40	
2017/18	900	77.1	59.6	82.5	32.9	15.6	45.8	18.7	0.0	72.4	64.7	24.2	83.7	16.6	1.5	62.0	1.0	0.0	4.7	0.7	0.0	3.3	10	1	38	
2018/19	808	76.4	61.0	83.6	32.0	18.7	51.1	16.4	0.0	93.8	64.9	5.8	85.2	18.7	0.4	74.5	1.3	0.0	7.9	0.9	0.0	5.6	15	1	58	
2019/20	890	75.9	63.4	82.4	33.0	15.0	44.7	19.7	0.0	63.7	63.3	30.2	83.8	17.1	1.2	68.5	1.1	0.0	6.3	0.8	0.0	4.1	15	2	58	
2020/21	1000	76.2	68.5	82.6	32.4	18.9	43.8	15.4	0.0	55.1	65.5	5.6	83.6	19.2	1.3	88.1	0.8	0.0	4.3	0.6	0.0	3.3	12	1	49	
2021/22	1000	75.4	61.5	81.0	33.2	14.6	45.9	19.3	0.0	68.6	63.7	14.1	82.1	17.1	0.2	85.9	1.2	0.0	20.2	0.9	0.0	9.2	11	0	50	
2022/23	1000	76.3	69.1	82.2	33.5	22.2	53.8	16.1	0.0	62.2	62.6	17.4	81.1	21.3	0.4	82.2	1.2	0.0	69.0	1.0	0.0	67.3	8	0	63	
2023/24	1000	75.9	66.8	81.5	30.1	15.1	42.7	12.5	0.0	62.7	59.7	0.6	95.5	27.7	1.6	94.0	1.0	0.0	5.2	0.8	0.0	4.6	4	0	42	
Weighted Average		76.5			32.3			16.0			64.0			20.0			1.1			0.8			10			
Minimum		59.6			14.6			0.0			0.1			0.0			0.0			0.0			0			
Maximum		83.9			53.8			99.4			95.5			94.0			69.0			67.3			63			



Graph 39: Test weight of white and yellow maize over 10 seasons