

**TABLE 16: STANDARDS FOR GRADES OF CLASS WHITE MAIZE
AND CLASS YELLOW MAIZE**

Deviation		Maximum permissible deviation					
		White maize			Yellow maize		
		WM1	WM2	WM3	YM1	YM2	YM3
1	Foreign matter [regulation 15]	0.3%	0.5%	0.75%	0.3%	0.5%	0.75%
2	Other colour maize kernels [regulation 16]	3%	6%	10%	2%	5%	5%
3	Defective maize kernels, above and below the 6.35 mm round-hole sieve [regulation 17]	7%	13%	30%	*	*	*
4	Defective maize kernels that can pass through the 6.35 mm round-hole sieve [regulation 17(c)]	*	*	*	4%	10%	30%
5	Defective maize kernels that can not pass through the 6.35 mm round-hole sieve [regulation 17(e)]	*	*	*	9%	20%	30%
6	Deviations referred to in items 1, 2, 3, 4 and 5 collectively: Provided that the deviations are individually within the specified limits	8%	16%	30%	9%	20%	30%

*No specifications

A consignment of maize shall be classified as Class Other Maize if the consignment does not comply with the standards for Class White Maize or Class Yellow Maize.

Regulations relating to the Grading, Packing and Marking of Maize intended for sale in the Republic of South Africa as published in Government Notices No. R. 4368 of 16 February 2024 and No. R. 4433 of 1 March 2024.

**TABLE 17: GRADES AND GRADE REQUIREMENTS FOR CLASS WHITE
AND YELLOW MAIZE ACCORDING TO USA GRADING REGULATIONS**

			Maximum limits of -		
			Damaged kernels		
Grades	Minimum test weight per bushel (pounds)		Heat damaged kernels (percent)	Total (percent)	Broken corn and foreign material (percent)
U.S. No. 1	56.0	72.1 kg/hl	0.1	3.0	2.0
U.S. No. 2	54.0	69.5 kg/hl	0.2	5.0	3.0
U.S. No. 3	52.0	66.9 kg/hl	0.5	7.0	4.0
U.S. No. 4	49.0	63.1 kg/hl	1.0	10.0	5.0
U.S. No. 5	46.0	59.2 kg/hl	3.0	15.0	7.0
U.S. Sample Grade	< 46.0	< 59.2 kg/hl	>3.0	>15.0	>7.0

U.S. Sample grade is corn that:

- Does not meet the requirements for the grades U.S. Nos. 1, 2, 3, 4 or 5; or
- Contains stones which have an aggregate weight in excess of 0.1 percent of the sample weight, 2 or more pieces of glass, 3 or more crotalaria seeds (*Crotalaria* spp.), 2 or more castor beans (*Ricinus communis* L.), 4 or more particles of an unknown foreign substance(s) or a commonly recognized harmful or toxic substance(s), 8 or more cockleburrs (*Xanthium* spp.) or similar seeds singly or in combination, or animal filth in excess of 0.20 percent in 1,000 grams; or
- Has a musty, sour, or commercially objectionable foreign odor; or
- Is heating or otherwise of distinctly low quality.

Mixed corn class	When % other colour in yellow maize samples > 5% and white maize samples > 2%
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Source: United States Department of Agriculture. Federal Grain Inspection Service. Grain Inspection Handbook - Book II Grain Grading Procedures, Chapter 4, October 2020.