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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Food products** | ***Phutu*** | | | | **Thin porridge** | | | | **Samp** | | | |
| **Varieties** | **SC 701**a | **KP-78**b | **KP-79**c | **KP-77**d | **SC 701** | **KP-78** | **KP-79** | **KP-77** | **SC701** | **KP-78** | **KP-79** | **KP-77** |
| **Secondary school** |  | | | | | | | | | | | |
| Appearance | 3.9 (1.0) | 3.4 (1.1) | 3.1 (1.1)e | 3.3 (1.1)e | 4.2 (0.9) | 3.4 (0.9)e | 3.5 (1.0)e | 3.4 (1.0)e | 2.8 (1.2) | 3.1 (1.1) | 3.3 (1.1) | 3.2 (1.1) |
| Aroma | 3.9 (0.8) | 3.4 (1.1)e | 3.3 (1.0)e | 3.5 (0.8) | 3.6 (1.0) | 3.2 (1.0) | 3.4 (0.9) | 3.4 (0.9) | 3.1 (1.1) | 3.2 (1.0) | 3.4 (1.0) | 3.2 (0.9) |
| Texture | 3.8 (1.2) | 3.5 (1.1) | 3.2 (1.2)e | 3.6 (0.9) | 3.9 (0.9) | 3.6 (1.1) | 3.4 (1.3) | 3.4 (1.3) | 2.9 (1.1) | 2.8 (1.0) | 3.1 (1.0) | 3.1 (1.1) |
| Flavour | 4.0 (1.0) | 3.7 (1.1) | 3.2 (1.1)e | 3.4 (1.1)e | 4.0 (1.1) | 3.8 (0.9) | 3.5 (1.0) | 3.6 (1.0) | 3.2 (1.0) | 3.0 (1.1) | 3.0 (1.0) | 3.2 (1.0) |
| Overall acceptability | 4.2 (1.0) | 3.9 (1.1) | 3.3 (1.2)e | 3.9 (1.1) | 4.2 (1.0) | 3.9 (0.9) | 3.7 (1.0)e | 3.9 (1.0) | 3.2 (1.3) | 3.0 (1.1) | 3.2 (1.0) | 3.4 (1.1) |
| **Adults** |  | | | | | | | | | | | |
| Appearance | 4.3 (0.9) | 3.1 (1.3)e | 3.0 (1.1)e | 3.2 (1.3)e | 4.4 (0.8) | 3.4 (1.3)e | 3.4 (1.2)e | 3.6 (1.0)e | 3.6 (1.2) | 3.2 (1.1) | 3.2 (1.2) | 3.3 (1.1) |
| Aroma | 4.1 (1.0) | 3.3 (1.2)e | 3.0 (1.2)e | 3.0 (1.2)e | 4.1 (0.8) | 3.3 (1.2)e | 3.4 (1.1)e | 3.5 (1.0)e | 3.5 (1.0) | 3.2 (1.1) | 3.2 (1.1) | 3.2 (1.0) |
| Texture | 4.3 (0.9) | 3.5 (1.3)e | 3.1 (1.3)e | 3.1 (1.3)e | 4.5 (0.7) | 3.4 (1.2)e | 3.3 (1.2)e | 3.7 (1.2)e | 3.8 (1.1) | 3.0 (1.2)e | 3.4 (1.1) | 3.4 (1.2) |
| Flavour | 4.5 (0.8) | 3.1 (1.2)e | 3.1 (1.3)e | 3.2 (1.4)e | 4.5 (0.6) | 3.3 (1.3)e | 3.5 (1.2)e | 3.4 (1.1)e | 3.7 (1.1) | 3.1 (1.1)e | 3.2 (1.0) | 3.2 (1.1) |
| Overall acceptability | 4.5 (1.0) | 3.3 (1.3)e | 3.0 (1.3)e | 3.1 (1.3)e | 4.5 (0.7) | 3.4 (1.3)e | 3.3 (1.4)e | 3.7 (1.2)e | 3.6 (1.2) | 3.1 (1.2) | 3.2 (1.1) | 3.3 (1.2) |

a = white variety (reference), b = light-yellow variety, c = medium-yellow variety, d = deep-yellow variety, e = mean acceptability scores were significantly different from those of the reference maize (SC-701), according to the Tukey (HSD) test (p-value < 0.05).

All values are given as the mean, with the standard deviation in brackets.

Significant differences are indicated in rows.

Five-point facial hedonic ranking ranged from 1 to 5 (1 = “very bad”, 5 = “very good”).