Technical Working Party on Testing Methods and Techniques	TWM/3/13
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A NEW PERSPECTIVE ON THE DUS TEST OF EGGPLANT FRUIT COLOR BASED ON LAB COLOR PARAMETERS

Document prepared by an expert from China

Beijing, China, April 28 to May 1, 2025

Third Session

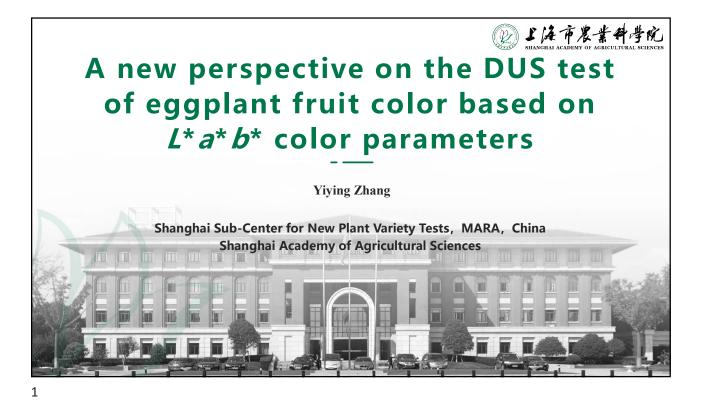
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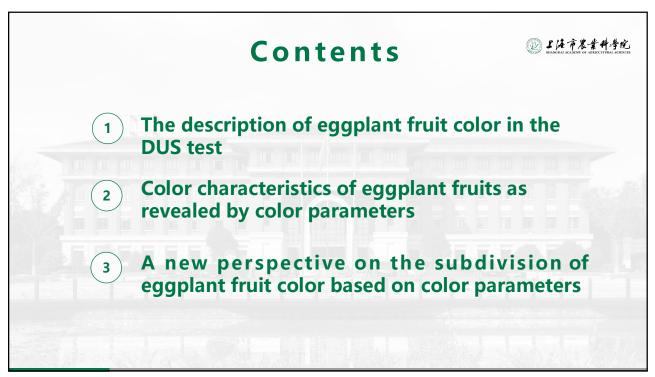
The annex to this document contains a copy of a presentation "A new perspective on the DUS test of eggplant fruit color based on Lab color parameters", to be made by an expert from China, at the third session of the TWM.

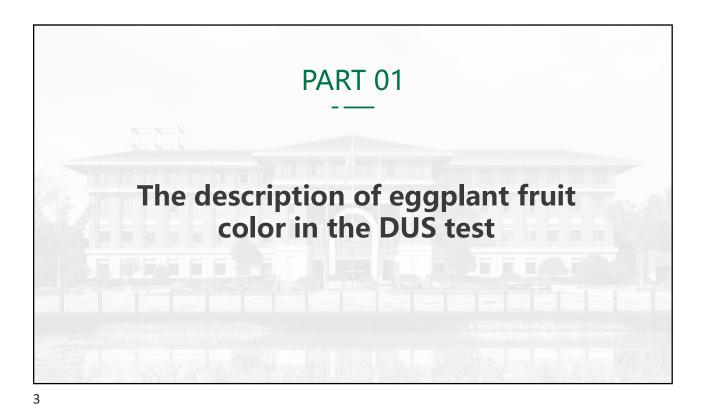
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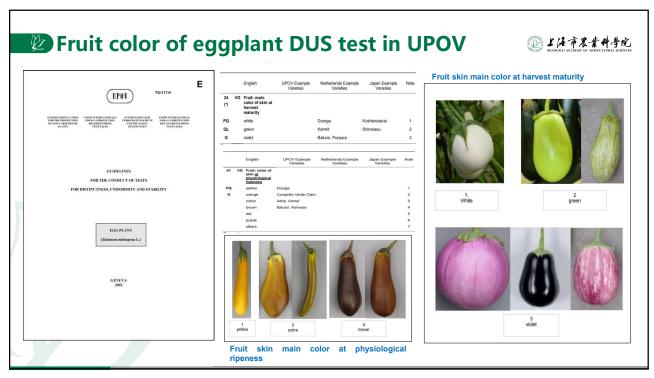
TWM/3/13

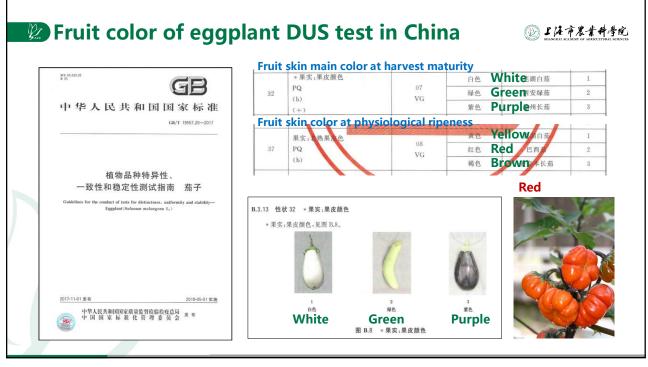
ANNEX

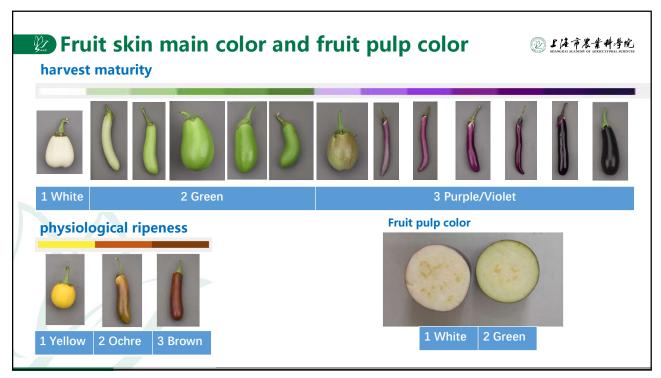


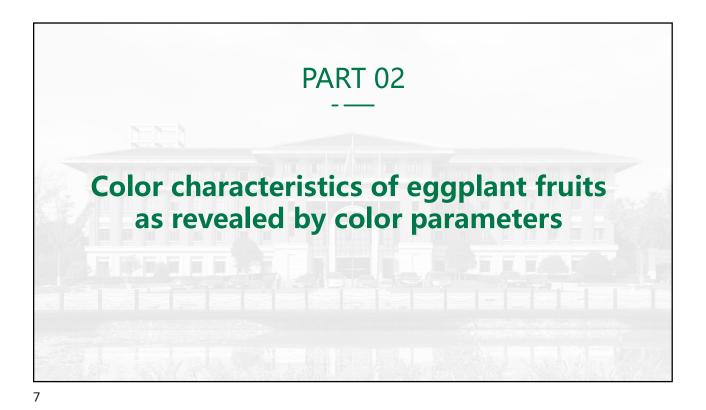












Measurement and definition of color ŶŢ ∞ 上海市農業科学院 parameters Table 1 The detailed descriptions of color parameters used for the classification Parameters Formula for calculation Results Ranges + $L^*(\Delta L^*)$ L^* (sample)- L^* (standard) Lighter Darker $\begin{array}{l} - \ 100 \leq \Delta L^* \leq 100 \\ - \ 100 \leq \Delta a^* \leq 100 \end{array}$ a^* (sample)– a^* (standard) a* (1a*) Redder Greener b^* (sample)– b^* (standard) $-100 \le \Delta b^* \le 100$ $b^* (\Delta b^*)$ Yellower Bluer $C^*(\Delta C^*)$ $(\Delta a^2 + \Delta b^2)^{1/2}$ Brighter Duller $\Delta \boldsymbol{C}^* \geq \boldsymbol{0}$ $H^*(\Delta H^*)$ $\tan^{-1}(\Delta b^*/\Delta a^*)$ All positive, the difference in hue $0 \leq \Delta H^* \leq 270$ $[\Delta L^{*2} + \Delta a^{*2} + \Delta b^{*2}]^{1/2}$ $E^*(\Delta E^*)$ All positive, the total color difference $E^* \ge 0$ During the measurement, primary value of color parameters (standard) are uniformly set to 0, so the final value of ΔL^* , Δa^* , Δb^* , ΔC^* , ΔH^* and ΔE can be recorded simply as L^* , a^* , b^* , C^* , H^* and E^* Youxia Shan, Chaojun Deng, Wenshun Hu, Junwei Chen, Xiuping Chen, Shaoquan Zheng, Qiaoping Qin. First insight into diversity of leaf color of loquat (*Eribotrya*) and its potential value on taxonomy. Genet Resour Crop Evol (2019) 66:143–163.

