

Distinguishability, Homogeneity and Stability in sweet potato genotypes

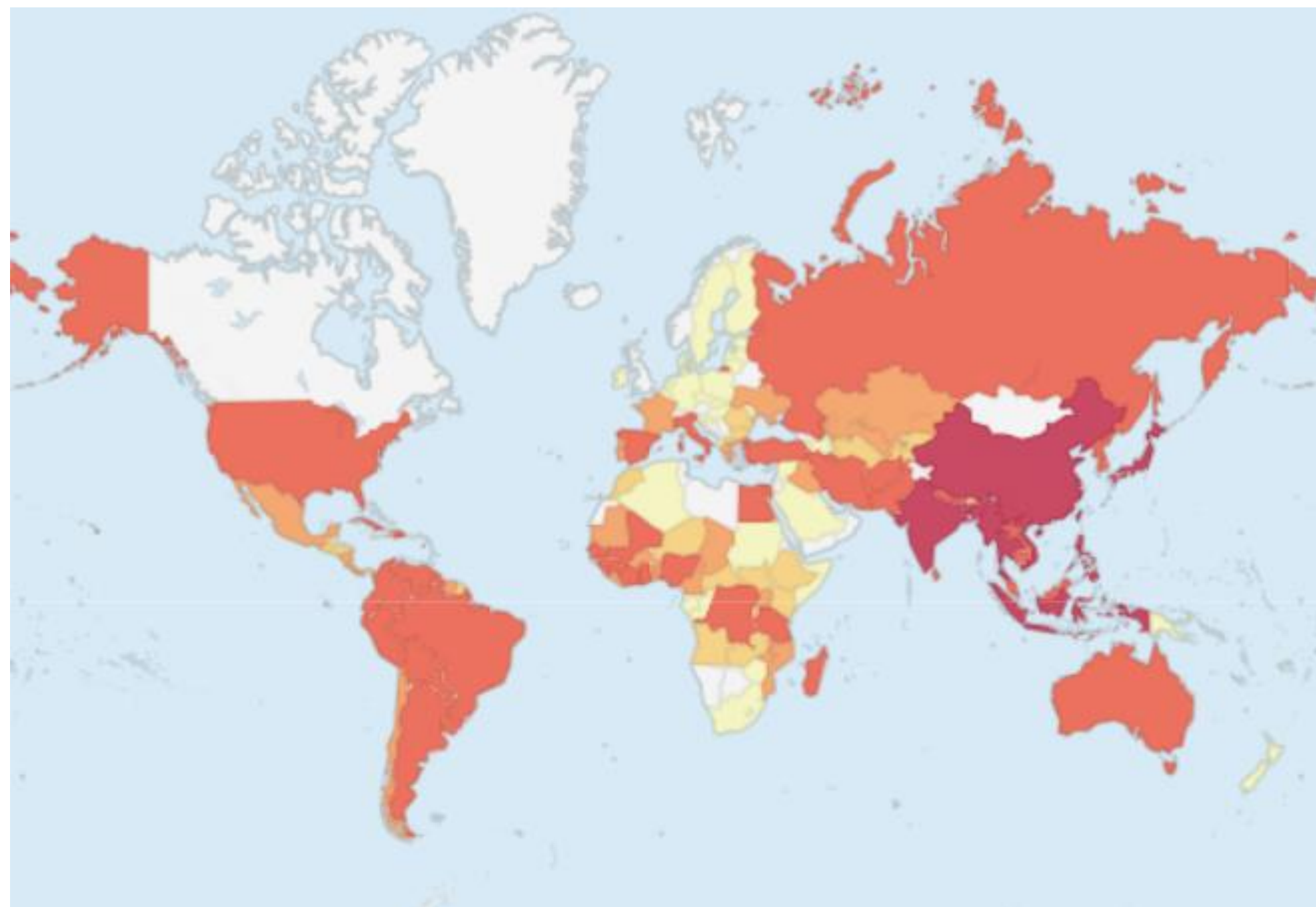
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INTRODUCTION & AIM

Importance



The objective was to carry out Distinctness, Uniformity and Stability in sweet potato genotypes for the purposes of registration and protection of cultivars.

METHOD



11 Genotypes/cultivars



Harvesting 90 days



Genes Software

Variables



Root shape

Flesh color



Number of lobes leaf



Anthocyanin pigmentation in the internode

RESULTS & DISCUSSION

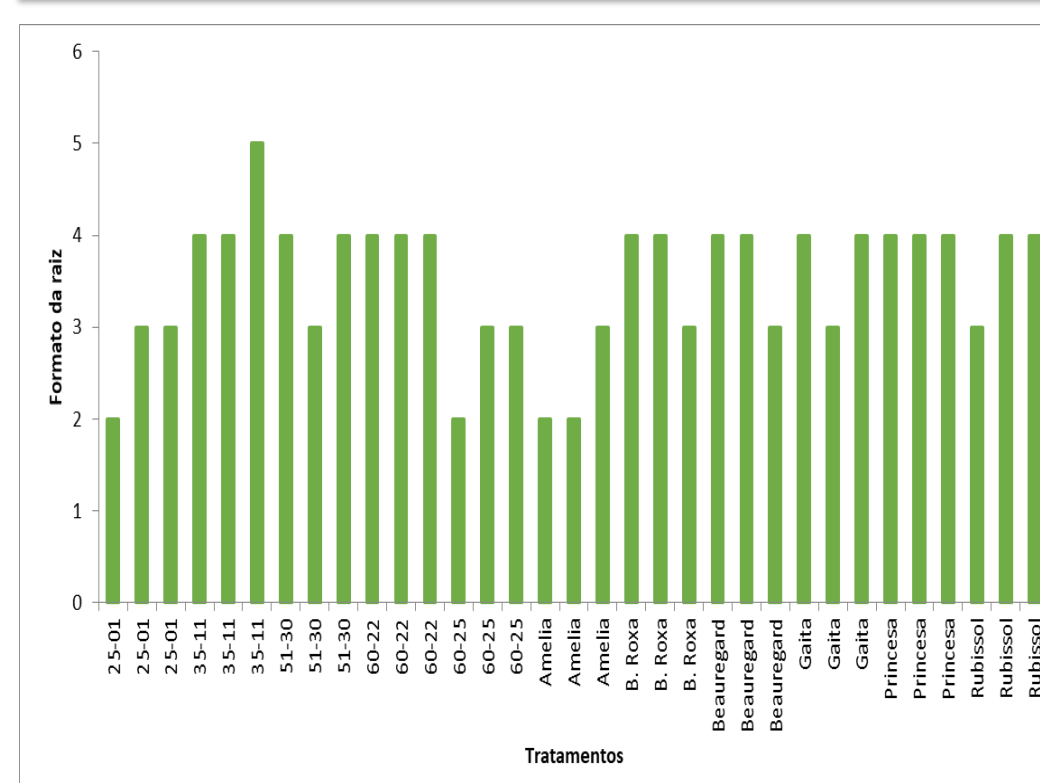


Figure 1 - Root shape

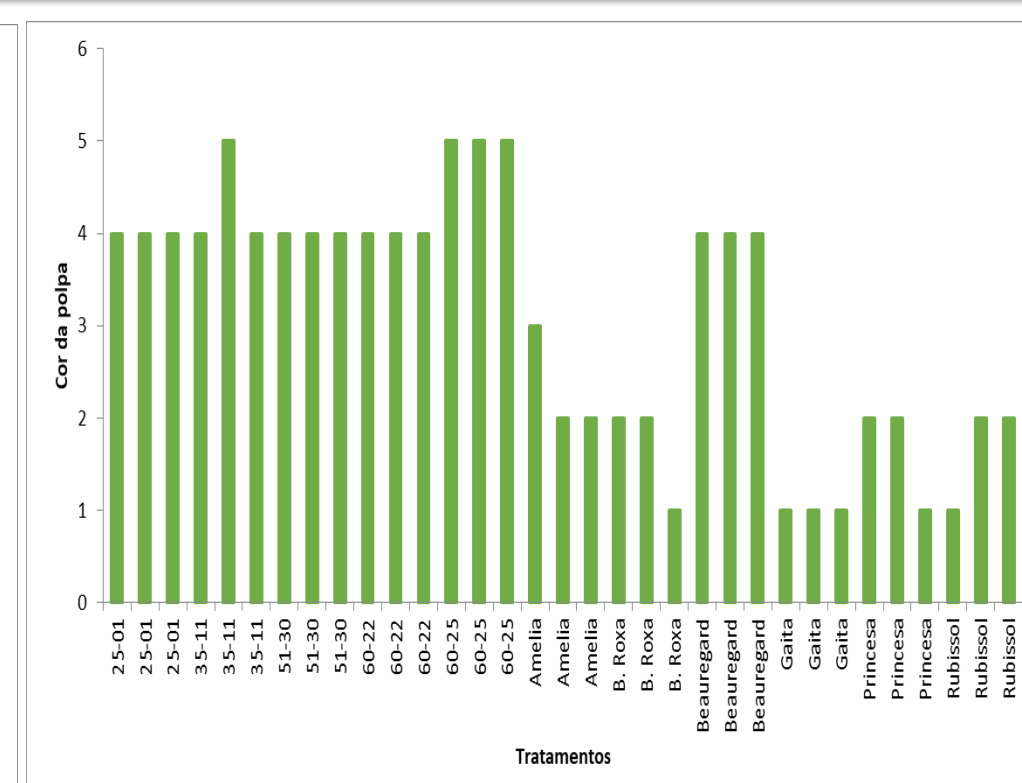


Figure 2 - Flesh color

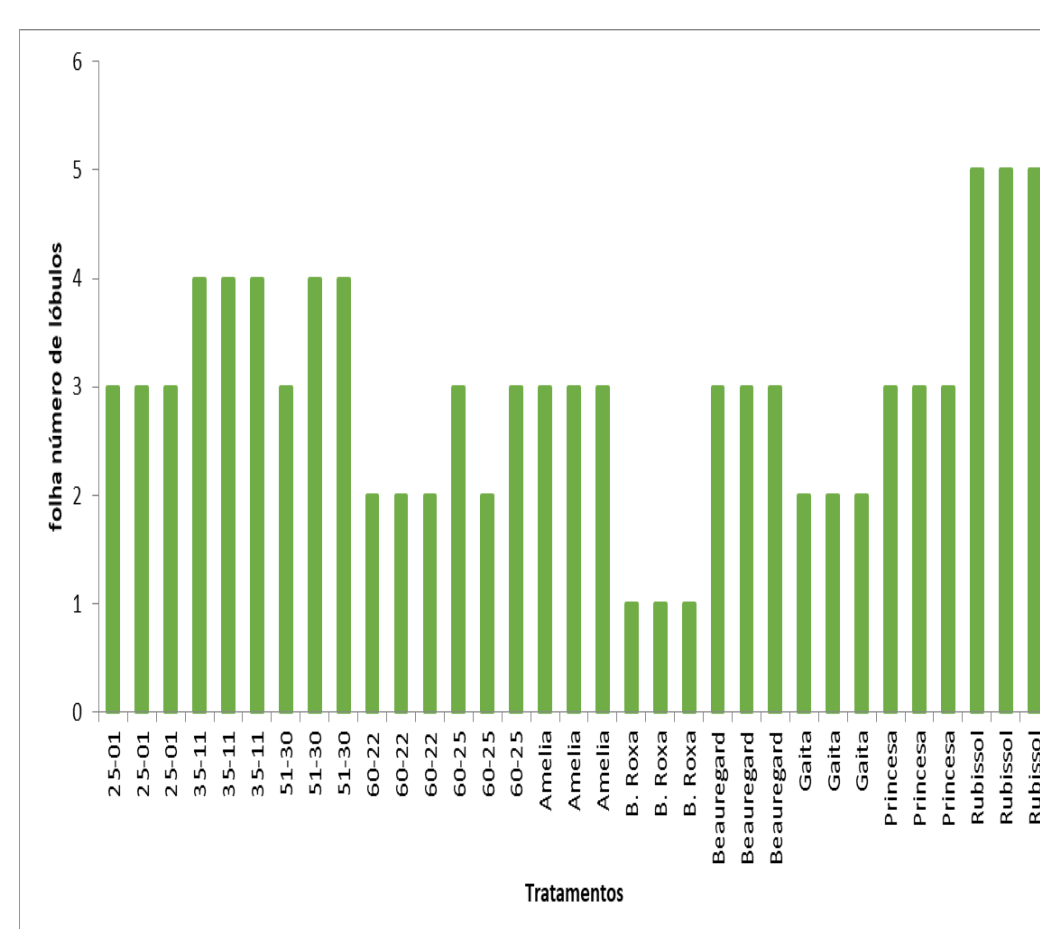


Figure 3 - Number of lobes leaf

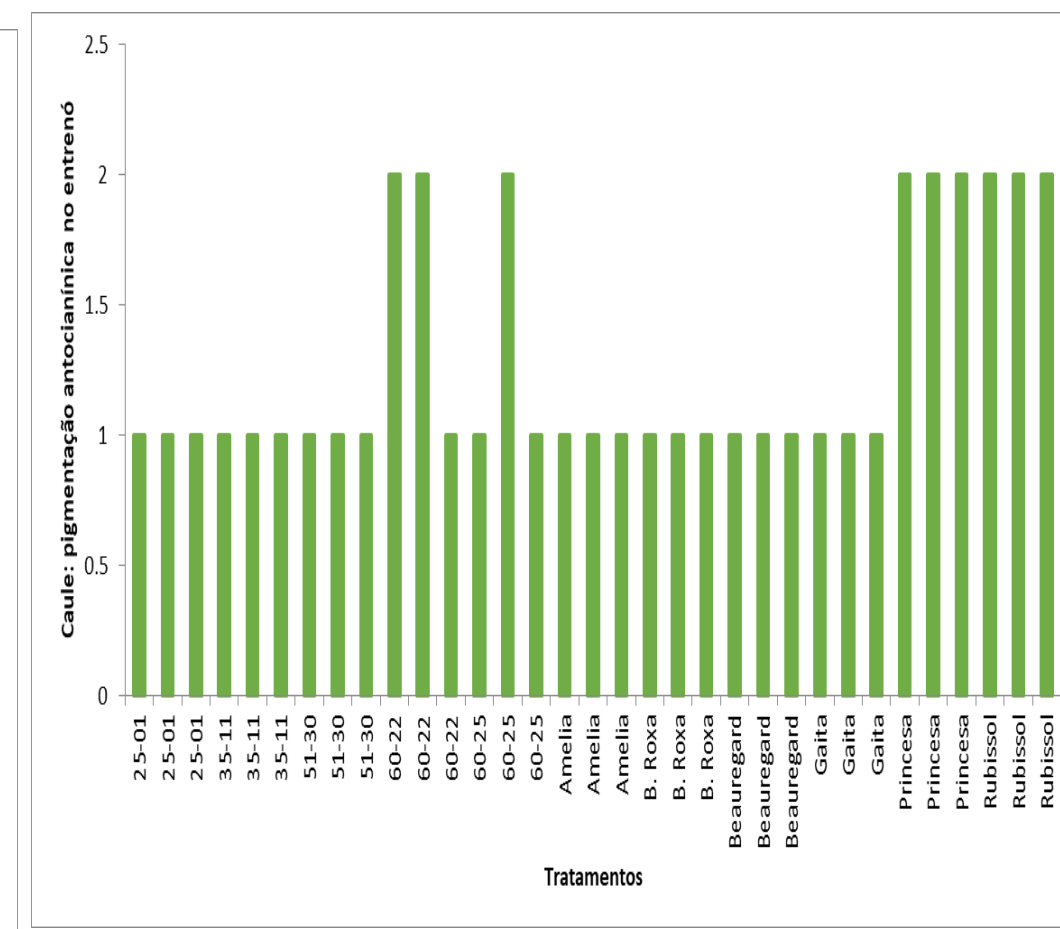


Figure 4 - anthocyanin pigmentation in the internode

The general shape characteristic of the root showed that 99% of the genotypes had table market shape and 1% had industrial market shape.

Of these, 54% had orange flesh and 46% had white or yellow flesh.

Among the evaluated genotypes, 73% had between five and seven lobes and 27% had no lobes.

Regarding anthocyanin pigmentation in the internode, 18% of the genotypes showed medium to strong presence and 82% showed no pigmentation.

CONCLUSION

The results obtained highlight the differences between genotypes and cultivars, meeting the requirements of the Ministry of Agriculture, Livestock and Supply (MAPA) for intellectual protection.

FUTURE WORK / REFERENCES

Gurmu, F., Mekonnen, B., & Habete, B. Evaluation of orange-fleshed sweetpotato genotypes for root yield and yield-related traits in South and Northern parts of Ethiopia. **Cogent Food & Agriculture**, v. 10, n. 1, p. 2376204, 2024.

Zeist, A. R., Neto, J. G., Guerra, E. P., Junior, A. D. S., de Pieri, J. R. S., Júnior, N. R., ... & Gonzalez, J. A. B. Temporal adaptability and stability of white and cream-fleshed experimental genotypes of sweet potato in the Western Paulista Region. **New Zealand Journal of Crop and Horticultural Science**, v. 53, n. 5, p. 2401-2424, 2025.