

Studies on the Variation of Peel's Essential Oil in Wentan Pomelo on Hualien Area¹

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Summary

Wentan pomelo is the most important fruit tree in Hualien area. The planting area is over 2,700 ha and the yield is more than 21,000 tons/year. Since the harvesting season of Wentan pomelo is restricted to short period around Mid-autumn festival. The production is over the demand of market and hence causes low price. In order to solve this problem, a new utilization of Wentan pomelo must be developed.

By the GC/MS analysis, the peel's essential oil of Wentan pomelo contain is more than 12 compounds, including limonen, α -pinen, β -pinen, and phenol. The highest content of peel's essential oil was found in middle of August. The storage reduced the water content of Wentan pomelo and enhanced the content of peel's essential oil. The results also showed that different cultivation managements affect the peel's essential oil of Wentan pomelo.

(Key words: Essential Oil. Extraction. Wentan Pomelo. Orange Genus.)

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