

## Effects of Harvesting Treatments on Pod Yellowing of Vegetable Soybean

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### ABSTRACT

Vegetable soybean is one of important legumes in Kaohsiung and Pingtung areas for exporting to Japan. The yellowing of pods has adverse effects on vegetable soybean quality. For the purpose of increasing exporting quality, the objectives of this trial were to study the effects of various varieties, harvesting dates, harvesting time, harvesting methods (harvested pods only and harvested pods with plant), and storage duration after pod threshing on the degree of pod yellowing in vegetable soybean.

Results showed that the degree of pod yellowing in Kaohsiung Selection 1 was significantly higher than those of Ryukuo and 205. The degree of pod yellowing was increased by the extending of harvesting dates. Delay of harvesting can lead to a yellowing of pods. Pod yellowing can also be induced when harvesting pods with plants in the spring crop season. Time of harvesting also significantly affects pod color. Harvested pods during the day time can cause the yellowing of pods. Also, storage duration affected pod yellowing. Storage pods longer than three hours after plants and pods harvested can significantly increase the degree of pod yellowing. Findings from this study might be useful for improving quality of vegetable soybean.

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