

Effect of Bud Forcing on Budbreak and Fruit Setting of 'Premier' Peach

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Summary

Field experiments were shown that forcing bud break and full blooming period were occurred by spraying any chemicals after treatment 28 days when applied during late Dec. to middle Jan. period in 'Premier' peach, and it was the best way to induce budbreak by 1% hydrogen cyanamide solution.

In this trail, to spray chemical treatments could promote 10 days earlier for the harvest date when applied in late December, but it single averaged fruit weight was only 68 grams that was too smaller to the market harvested at April.

It hadn't significantly difference to advance the harvest date by spraying chemicals on early and middle January in 'Premier' peach, but the percentages of April harvested were rised to occupy 42.0% of total production in all year around that treatments of applied 1% hydrogen cyanamide and 5% KNO₃. In fruit quality, between treatments were not significantly different that average single fruit weight was 107 g, with a total soluble solid of 10.8 °Brix that harvested at April, and average single fruit weight was 112.6 g with a total soluble solid 12.2 °Brix at May.

However, the optimal time to break dormancy of 'Premier' peach was in early January, and the best chemical materials to force flower was 1% hydrogen cyanamide in Taitung.

Key words : Premier, bud forcing of flower, fruit quality , hydrogen cyanamide.

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