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Effects of a controlled-release fertilizer on yield, nutrient uptake, and fertilizer usage efficiency in early ripening rapeseed (*Brassica napus* L.)

Key words: Early ripening rapeseed, Controlled-release fertilizer, Yield, Nutrient uptake, Fertilizer usage efficiency

Research Summary

This review mainly focused on the effects of controlled-release fertilizer for early ripening rapeseed (Xiangzayou 1613) in the red-yellow soil of southern China during 2011-2013, and summarized the key roles they played in the following aspects:

- **Seed yield**
- **Plant growth**
- **Nutrient uptake**
- **fertilizer usage efficiency**

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Innovation points

A series of comprehensive figures were generated to summarize the latest knowledge about controlled-release fertilizer.

Figure 1 | Seed yield as a function applied of early ripening rapeseed.

Figure 2 | N, P, and K accumulation of early ripening rapeseed.

Figure 3 | N accumulation as a function applied of early ripening rapeseed.

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Innovation points

A series of comprehensive tables were generated to summarize the latest knowledge about controlled-release fertilizer .

Table 1 | N, P_2O_5, K_2O and B dosages of early ripening rapeseed

Table 2 | Seed yield and fertilizer rate per 1 kg yield of early ripening rapeseed

Table 3 | Oil yield and oil content of early ripening rapeseed

Table 4 | Yield components of early rapeseed

Table 5 | N, P, and K UE, translocation amount, translocation rate, contribution rate, and harvest index of early ripening rapeseed

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