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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**

# ***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.**

# ***Innovation points***

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

**Table 1 | N, P<sub>2</sub>O<sub>5</sub>, K<sub>2</sub>O 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**