Allelopathic potential sunflower (*Helianthus annuus* L.) residuals on seed emergence and growth of cotton (*Gossypium hirsutum* L.)

**Caption:**

**References:**

Rice, 1974; Rice, 1974; Klein and, 1978; Millen, 1980; Altieri and Doll, 1978; Cochran et al., 1977; Fuerst and Putnum, 1983; Miller, 1979; Bell and Koppe, 1972; McCalla and Norstadt, 1974; Rice, 1974; Bell and Koppe, 1972; Fuerst and Putnum, 1983; Rice, 1974.

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**Abstract:**

The allelopathic potential of sunflower (*Helianthus annuus* L.) and cotton (*Gossypium hirsutum* L.) was evaluated using the seedling emergence and growth of cotton seedings grown in the presence of sunflower and cotton residues. The results showed that sunflower residues significantly inhibited the germination and growth of cotton seedlings, while cotton residues had a minimal effect on sunflower seedling emergence and growth. This study highlights the potential for allelopathic interactions between these two crops, which may have implications for crop rotation and management practices.

**Keywords:**

Allelopathy, sunflower, cotton, seedling emergence, growth.