(3) Crop weather interaction
d. Sunflower, Mustard and weather

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Examples

• Sunflower adopted to different climates ranging from arid under irrigation to temperate climate under rain fed condition, but is susceptible to frost.

• The optimum temperature required for seed germination is 20-22°C

• Sunflower successfully tolerates temperature range from 8-34°C, indicating its adaptation to the regions with warm days and cold nights.

• Optimum growth is achieved under mean daily temperature of 18 and 25°C.

• The water requirement of crop is 500-700 mm water
Examples
• Brown, or Indian mustard (*Brassica juncea*), cultivated mostly under winter season with a temperature range of 10 to 25°C;

• During germination, higher temperature of 27°C is required, though cold condition favour the crop

• Efficient photosynthetic response is achieved at 15 to 20°C

• Mustard requires a low water requirement (240–400 mm)

• Excessive cold and frost will be harmful to crops