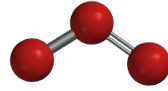


- ← Mitigates the effects of O<sub>3</sub>  
→ Exacerbates the effects of O<sub>3</sub>



## Tropospheric Ozone

## Agricultural practices

- Nutrient fertilization
- Free-air CO<sub>2</sub> enrichment
- Shifting crop calendars \*
- Increasing irrigation

## Plant-pollinator communication and flower attractiveness

- Affects perception of floral scents by pollinators
- Changes the attractiveness of flowers

## Reproductive development

- Reduces the number flowers on the terminal and axillary racemes
- Degrades emission and composition of floral volatile organic compounds

## Plant physiology

- Increases the respiratory quotient and stomatal exchanges
- Reduces allocation of carbon to growth
- Reduces photosynthetic efficiency
- Increases reactive oxygen species (ROS) accumulation

## Vegetative growth

- Reduces number and size of fronds and leaves
- Increases premature leaf senescence and damage
- Reduces root growth

