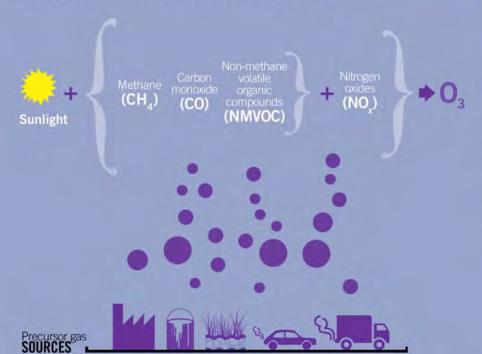
Tropospheric Ozone (O₃)

varming and is a highly reactive oxidant, ary pollutant because it is not emitted directly, harmful to crop production and human health. O, is known as a 'secondary but instead forms when precursor gases react in the presence of sunlight.



@CAC

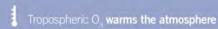
LIFETIME IN ATMOSPHERE Weeks



IMPACTS



transboundary pollution problem



O₃ damages plants and affects agricultural production:

- Reducing photosynthesis



air pollution cause er **150 thousand**

Tropospheric Ozone

Ozone is a reactive gas which exists in two atmospheric layers; the stratosphere (upper layer) and the troposphere (up to 10-20 km above the ground). In the troposphere, ozone is a significant greenhouse gas, where it also affects the yield of many crops and adversely impacts the diversity and growth of plant communities. In addition, tropospheric ozone affects human health due to its action as a powerful oxidizing gas, which for instance, can cause

Unlike the other short-lived climate pollutants, ozone is not directly emitted. It is a secondary pollutant that is formed in the troposphere by sunlight-driven chemical reactions involving carbon monoxide, non-methane volatile organic compounds, methane and nitrogen oxides. These precursors arise from both natural sources and a wide range of anthropogenic activities. Reductions in methane and carbon monoxide emissions have the potential to significantly reduce ozone levels and associated global warming.