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Review

Study on Climate Change, Pollution and their effect on Agriculture Production

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ABSTRACT

Agriculture plays a vital role in economic development of developing countries. The role of agriculture in economic development is crucial because a majority of the population of developing countries make their living from agriculture. In recent times, the crop simulation models have been used extensively to study the impact of climate change on agricultural production and food security. Many researchers are now focusing their study on effect of air pollution on different agriculture products. The results clearly shows that air pollutants are damaging the yield of agricultural food crops, soil fertility, increase soil alkalinity, their nutritional quality and safety, and imposing a major risk to food security. Effect of different air pollutants on agricultural production are studied in this review. The uncontrolled increasing population and hence urbanization decreases the proportion of agricultural land. Current estimates from different sources indicates that emission and effect of gases like O_3 CO_2 as air pollutant are causing between 5% and 12% yield losses globally in staple crops, which include wheat, rice, maize, soybean.

Keywords: Air Pollutants, Agriculture Crops, Soil Fertility, Effect of pollutants, Gases.