The Impact of Climate Change on Abu Dhabi Irrigated Agricultural Systems

Ali Mah'd AlShrouf*a, Hassan Al Marzouqib

a Lead Researcher, Research and Development Division, Abu Dhabi Food Control Authority, R & D Division, AlAin, UAE
b Agricultural Research Section Manager, Research and Development Division, Abu Dhabi Food Control Authority, R & D Division, AlAin, UAE

The importance of developing effective Agricultural strategies for adapting the climate change has been recognised by the Abu Dhabi Government to implement policies and programs that assist adaptation to the consequences of the climate change that is already unavoidable. Understanding the relationship between climate and agriculture supports the enhancement of resilience and sustainable of agricultural production systems for effective planning and decision making. It is well known, that agriculture productivity is expressively related to climatic parameters and in consequence to climate changes. The purpose of this report is to define the possible climate change impact on the agricultural sector for Abu Dhabi Emirate, in order to, provide the decision makers with the future sights for taking into consideration the future agriculture strategies & plans.

The major goal of this study is the understanding of the future trend, in order to, help decision makers and policy planner to make sound decisions based on a proper scientific planning to the areas where the statistics are available; including production, and water consumption.

This study is not absolute certainty, since it is interacting with other environmental, economic, social and adaptive changes. However, this study might be a good start to look for the most direct and immediate effects first and then working outwards with less certain. So, the study approach mainly developing a set of indicators for evaluating, prioritizing and choosing adaptation practices to climate change in agriculture.