

## CHAPTER 6

# ORGANIC ORANGE AND LEMON PRODUCTION FORECASTS OF ADANA PROVINCE UNTIL 2025

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### INTRODUCTION

Today's the vitamin-C, which is used as a food supplement for humans, is of great importance with its support of immune system, its contribution to tissue formation and its energizing feature (1). Vitamin-C, known as ascorbic acid, helps prevent health problems such as cancer, heart disease and arthritis that occur in the body (1,2).

The vitamin-C is generally abundant in citrus fruits such as orange, lemon, tangerine and grapefruit (3,4). Among them, especially orange and lemon are the most preferred and consumed fruits.

It is of great importance to keep the body resistance high in disasters that have occurred in terms of health in human history, such as the Covid-19 pandemic (2). At this point, vitamin-C supplementation is important. However, in today's conditions, various chemicals and additional products are used for the production of healthy fruits and vegetables cheaper, faster and in larger quantities (5). This situation damages the organic structures of these fruits and vegetables. Therefore, growing such products also harms for human health.

The organic products are generally referred to as controlled and certified products that are produced without the use of chemicals, external additives and processes/methods that are harmful to humans and ecosystems at all stages from seed to harvest and from harvest to the end user (6). In particular, the production of organic products, which started in the 1980s, has started to become popular in Turkey since the 2000s (7). Today, around the world, 197 types of organic products are produced, while this number is approximately 150 in Turkey (8).

Adana province is an ideal location for orange and lemon producing, which are citrus fruits that can be grown easily in the Mediterranean climate and vegetation in general (9,10). Adana naturally has a rich agricultural potential in terms of rich water resources and climate suitability, which are one of the most impor-

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Adana will increase between the years 2021-2025. However, it seems obvious that public and private institutions support organic agriculture producers in order to turn some of the horizontal trends that occurred between the years 2018-2020 into an increasing trend. It is thought that the efforts to reduce the economic expenses experienced in agricultural equipment, organic seed supply and production processes will support the possible increases in organic lemon and orange production in Adana.

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