

## Managing residue and active ingredient issues



Marketability Healthier fruit

Sustainability Good agricultural practices introduced

food chain partnership

IIIIIII The Turkish Apple Özbay Initiative

# What was the market situation?

Apples are grown on around 180,000 hectares (ha) of land in Turkey and are one of the most important fruit crops. With an average production of nearly 2.5 million tonnes a year, Turkey is the world's third-largest apple producer. Local consumption accounts for almost the entire harvest and only around 4 % is exported. In recent years, however, exports have been increasing, in particular to the Middle East, India, and other Arab countries, with Israel and Russia now the target markets.

The major disease is apple scab, the major pest the codling moth. Insecticides and fungicides are generally applied, with both generics and original products in use. Besides food safety, the main requirement for the growers is to find profitable and sustainable markets.

TURKEY

Located in Isparta in the south of Turkey, Özbay Ltd. Şti. was founded in 2011 as a result of a restructuring process, whereas company itself has been operating in all stages of the fruit-growing sector and servicing both fruit growers and consumers for more than 20 years. Özbay Ltd. Şti. grows apples on 200 ha in the provinces of Konya and Isparta provinces and has a 10,000-tonne cold storage facility in Isparta. Özbay Ltd. Şti. grows mature fruit and fruit saplings (apples, pears, etc.), operates cold storage facilities and packaging services, and is known as a leading and productive investor in the region.





### **Challenges:**

- Managing residues and number of active ingredientsLack of good agricultural practices

#### **Solutions:**

- Monitoring system to determine the right time to apply crop

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### **Benefits:**

• Cost savings Healthy, safe fruit

> Our goal is to encourage growers to use good agricultural practices for producing high-quality, healthy apples and to make our future sustainable.

Ramazan Özkaya, Bayer



## What were the challenges?

The chief challenge was to manage residues and reduce the number of active ingredients. These issues were aggravated by the lack of good agricultural practices and application techniques among apple growers. The

emergence of new pests, such as the Mediterranean fruit fly and spotted wing drosophila, added to the complexity of the problem.

# What was the solution?

An environmentally friendly spraying calendar based on international standards was prepared to manage residues and the number of active ingredients. Checks were carried out by means of laboratory analyses. Bayer organized BayG.A.P. and IPM training courses to improve the apple growers' knowledge of good agricultural practices and integrated pest management. Technical support was provided with respect to the new pests and a monitoring system was introduced to help decide the right time to apply crop protection products. Last but not least, some new applications were demonstrated and checked in the field.

"Our priority is to produce apples to global standards and to be able to export them all over the world."

Hamza Yıldız, Özbay

## What did we achieve?

- Residue and active ingredient issues successfully tackled
  Apple growers' G.A.P. skills improved
  IPM rules applied in the field
  All new pests successfully controlled with no damage to the crop
  Increased applicator performance and effectiveness in the field

## About Food Chain Partnership

Consumers are becoming increasingly conscious of the need for healthy nutrition. Food Chain Partnerships help to supply consumers with high-quality fresh produce, which forms the basis of a healthy diet. But such partnerships can only succeed if they involve every player in the food chain from the farmer and processor to the exporter or importer and retailer. The Crop Science Division of Bayer has the global experience and cutting-edge expertise to create a successful partnership at every level.





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