



Benefits

- More efficient use of water resources .
- Annual saving of 1.1 mln. m³ of water in Hayanist.
- Irrigation of arid community lands and prevention of soil degradation.
- Irrigation opportunity for nearly 40 ha of farmlands in case of Hayanist.
- Development of agriculture in the communities.
- Improvement of the social situation in the communities.

SECONDARY USE OF FISH-FARM WATER FOR IRRIGATION PURPOSES IN THE ARARAT VALLEY

Pilot project: Hayanist village, Ararat marz.

Donors: USAID ASPIRED Project, Coca-Cola Hellenic Bottling Company Armenia, UNDP-funded GEF Small Grants Program.

Part of the community lands is irrigated with the use of the outlet water from the fish-farm located in the village neighborhood. The project built a pumping station at the water discharge point of the fish-farm, laid a new irrigation system and conducted a training of land owners for farmers on topics of sustainable farming and safe use of fertilizers.

The ASPIRED Project examined the safety of the fish feed used at the fish-farm, and conducted several water quality tests, both at the beginning of the project and during the irrigation season which proved that the fish feed is free from hazardous elements and water meets the water quality standards for irrigation water set by the Food and Agriculture Organization.

In September 2017, the Scientific Center of Vegetable and Industrial Crops of the Armenian Ministry of Agriculture conducted the organoleptic analysis of different types of crops — tomato, eggplants, hammock, melon and watermelon, produced in Hayanist. Examined samples received 4-5 points on a 5-level scoring system. The expertise also proved that examined samples have the same taste characteristics which are common for these types of fruits and vegetables.



The secondary use of the outlet water from fisheries contributes to a more efficient use of water. The expertise proved that crops grown with the use of the fish farm outlet water do not differ in their taste characteristics and are safe for consumption.