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The Green Solution- Fish instead of Chemicals

The open-water bodies, both large and small, are intended for drinking, irrigation and landscaping. Being exposed to the sun and to open air, they produce vegetation, alga and microorganisms.

As time goes by, the different types of alga grow wildly and as a result, reduce the amount of space that allows the fish to live and grow. The condensed alga also causes blockage in the filters used to pump water for purposes of irrigation and drinking.

To deal with this manifestation, water is being sprayed with chemicals that are both expensive and unhealthy (such as Bromex). For the large water bodies, the spray is inefficient.

In order to eliminate the “organic pollutant” mentioned above, we stock some species of fish in an open-water body, each with a different diet. Each fish is taking care of a specific trophic level.

The combination of the fish types in the same water body ensures reasonable water quality for all the desired purposes.

For example, the primary uses of the water of the Sea of Galilee are drinking and irrigation, yet the Israeli Department of Agriculture populates the lake with different types of fish and thus ecology is preserved.

The concept of this ecological treatment is based on Polyculture- agriculture using multiple crops in the same space.

Mekorot, the Israeli National Water Company, has been populating its water reservoirs with fish in this method successfully for more than 30 years.



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Israel is a semi-arid country with a short rainy season. In order to allow intensive agriculture, sophisticated irrigation systems are required. Rain water, as well as reclaimed water is collected in deep water reservoirs during the rainy season and is then used for irrigation only, during the dry season. These reservoirs are also used for populating a few kinds of fish.

Fish for Ecological purposes:

Silver carp (*hypophthalmichthys molitrix*)

Big head carp (*Aristichthys nobilis*)

Grass carp/Amur (*Ctenopharingodon*)

Black carp (*Milopharingodon piceus*)

Grey mullet (*Mugil cephalus*)

St.peter fish (*Oriochromis aureus*)

Striped Bass.