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HOW WE CAN BETTER MAINTENANCE AND USE OF WATER EACH OF US

FARAHNAZ MEMARZADEH MOFRAD^{1*}

1: Education Organization of Fars Province, Fars, Iran

***Corresponding Author: E Mail: F.memarzadeh52@yahoo.com; Ph.: +98 9369750609**

ABSTRACT

The world is experiencing a water crisis. Some species of plants and animals, due to drought, have been destroyed, which can cause changes in the lifestyle of people is. The lack of rain in recent years, increasing population and water consumption, on the one hand, and limited water resources, on the other hand, the country is suffering from drought, is, and need to be cared. Lack of proper use of water resources, the people, and the disease can exacerbate. For the passage of drought, water care, the national will is required.

This, according to previous research, the reference to the water crisis, and the country's water resources, articulates, and parts of the highest water consumption, and waste, such as agriculture, industry, and housing is examined. According to research in the agricultural sector, most water is wasted, which have irrigation methods, corrected. Here, in the agricultural sector, where the optimization of irrigation methods, are listed. At home, the efficient use of water, articulates and more ways to save the most important industry, the use of wastewater and recycled water is, says as well as to compensate for the lack of water, and water supply needed, to sweeten the waters of the Persian Gulf and Sea of Oman, notes, and ways to conserve water and prevent water loss in these sectors, notes.

Study after research study, the most effective way to conserve water resources, and changes in each individual's culture, expression, and ultimately concludes that, in order to preserve water resources, the need to culture infrastructure, both require state and national education. Everyone started to change myself, because a change in individuals, changes in the population. Farmer,

tradesman, worker, student, students and so must your thinking to just use water, leads, and actually run it.

Water scarcity, serious, and irredeemably disease that must be tolerated. Farmers need to be trained, employees need to be educated, housewives need to be educated, because women of good home for their children and as director of the home, can use water at home, their management, and their children, actually teach children proper training with it, to all the points, carry, and use them. All you have to cross the drought, they go hand in hand. Education, IRIB, municipalities, governments, agricultural organizations, the police, etc., all have the same goal, and its efficient use, and maintenance of the country's waters, and the government should all have complete control. This, in the end, strategies to protect water resources of the country, offers, it is hoped, will work.

Key words: Water Shortage, Water Resources, Savings

INTRODUCTION

Water scarcity already affects every continent. Around 1.2 billion people, or almost one-fifth of the world's population, live in areas of physical scarcity, and 500 million people are approaching this situation. Another 1.6 billion people, or almost one quarter of the world's population, face economic water shortage (where countries lack the necessary infrastructure to take water from rivers and aquifers).

Water scarcity is among the main problems to be faced by many societies and the World in the XXIst century. Water use has been growing at more than twice the rate of population increase in the last century, and, although there is no global water scarcity as such, an increasing number of regions are chronically short of water.

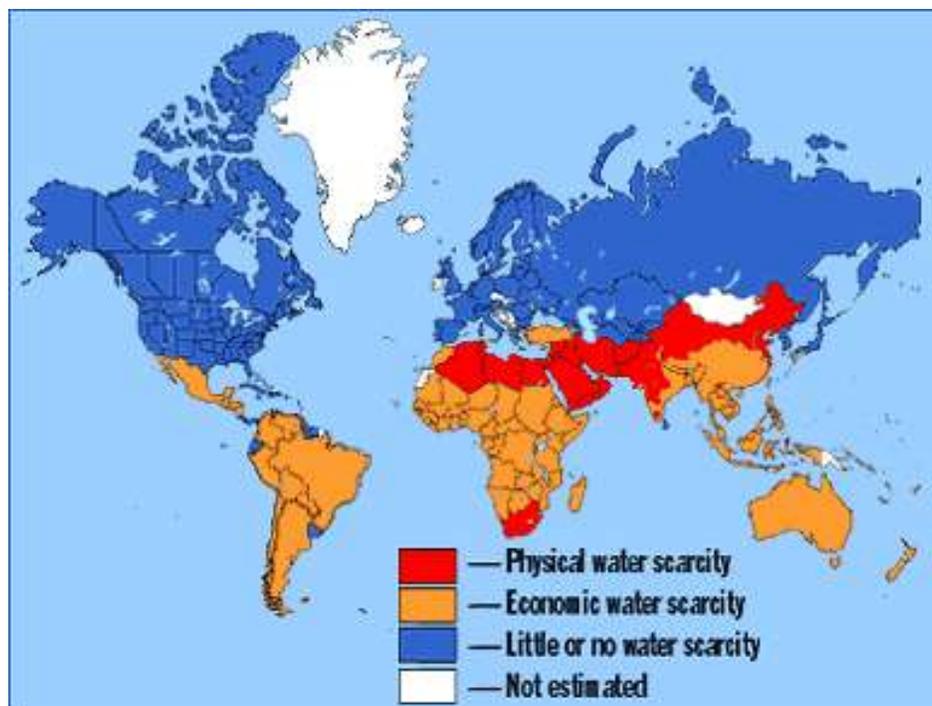
Water scarcity is both a natural and a human-made phenomenon. There is enough freshwater on the planet for seven billion people but it is distributed unevenly and too much of it is wasted, polluted and unsustainably managed [1,2].

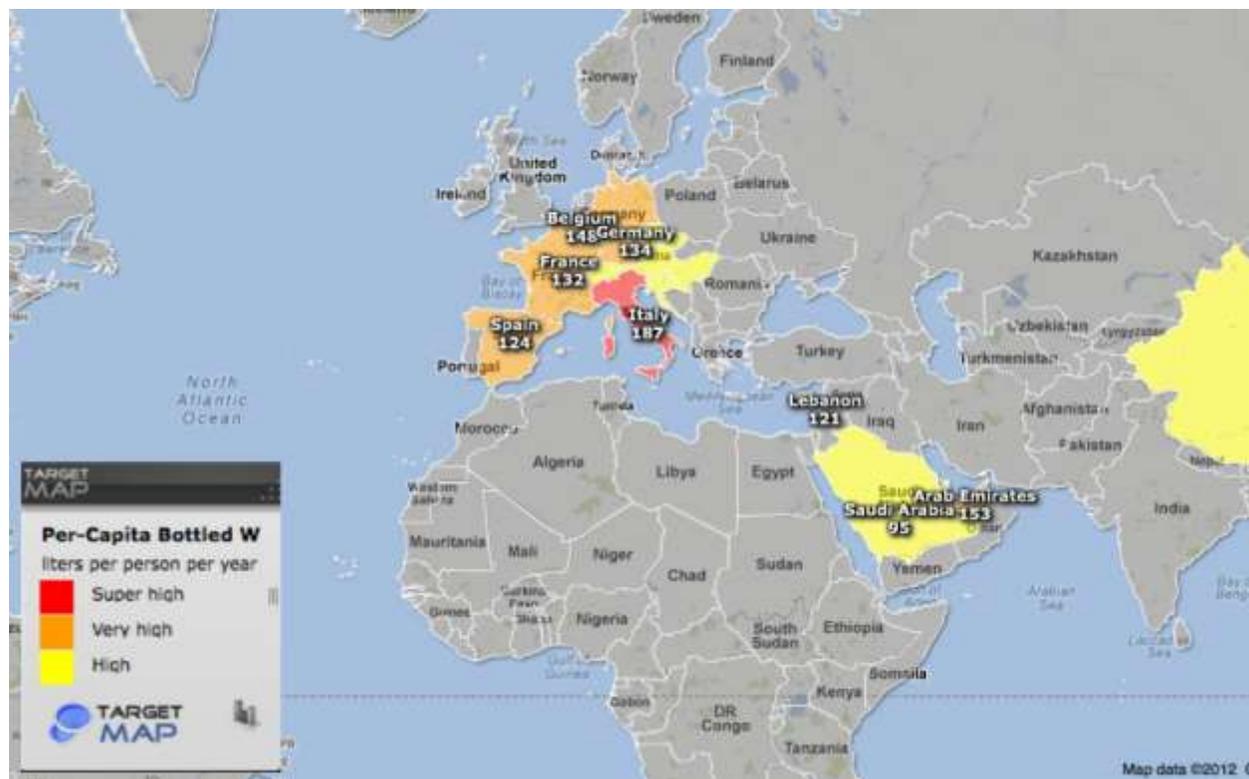
Iran is the only country in recent years, the problem of water crisis is involved, but the world is experiencing a water crisis. More than one billion people in the world, to safe drinking water, and half the world, good health, have no access. Without fundamental changes, many parts of the world, enough water for food production and population growth, in spite of population control policies are destroying plant and animal varieties, other facts are, in many parts of the world, happened, and can change the way of life of

future generations are. World water crisis, a crisis management [5].

Water shortage crisis, the consequences of catastrophic, seeking, and humans, and many living organisms, is targeted. Our country, few steps dehydration crisis, is located. If you do not answer, drought threatens the life of the country. Low groundwater levels, dry up lakes, and wetlands, and the influx of fine dusts into the sky cities, has led, deserts and deserts of Iran and spread. Thus, as the disease is incurable illness is self-aware, and should be tolerated, we are forced to, so the phenomenon of drought, cope. Way in saving and "management" [4].

Studies show that, in Europe, for a ten-minute shower, up to 50 liters of water consumed, while over the same period, consumption in Iran, about 300 to 400 liters, and for washing eating utensils four, completely open water, and about 150 to 200 liters of water is consumed. Unfortunately, the Iranians, the savings are not used, and they are widely used. In Iran, millions of liters of water into the sewage, if they can be filtered and brought to agriculture and industry, as part of a large complex in Tehran, has been implemented [3].





In short, the crisis of water, a major problem in many countries, and is a very serious threat. Population growth and residential, on the one hand, and low rainfall, and drought in succession, on the other hand, Iran threatened. Each of us, in protecting Iranian waters and correct use of water, are responsible. Therefore, to maintain awareness and develop a culture in Iranian waters, and it seems to be necessary. This article, in addition to ways to save water, and water management implies steps that each of us can work in any profession and that we take to protect the waters of the counts. The purpose of this paper is the way, the most effective role in the

preservation of water in agriculture, and the cost of housing, industry and so on [4].

Iran Water Resources:

The volume of fresh water used by humans is very limited. Annual rainfall in Iran, much less than average rainfall in the world. Distribution of rainfall throughout the country, not identical, and more precipitation takes place at the wrong time for agriculture. For proper utilization of water resources, you must have the resources well, and on careful planning they did. Iran's freshwater resources, including groundwater aquifers, freshwater lakes, rivers and the waters behind the dam and water from melted snow, is obtained.

In Iran, the waste water is 28 to 30 percent, while in the world of 9 to 12% have been reported. One of the main causes of the unauthorized removal of the water network, and deterioration of water facilities and the water supply network. The most important factor in water loss, lack of knowledge, culture and right use of this blessing [6].

Areas where water is wasted, including agriculture, industry and homes.

1. Agriculture:

Studies show that 94 percent of water in the agricultural sector, directly and indirectly, much of the water is wasted (management of water use in agriculture).

In many parts of the country, irrigation, water drowning. In our country, products, and high consumption of water allocated to the level of high culture. Excessive use of fertilizers for crops consumes more water. Water vapor

from the soil, another problem is that the water in the agricultural sector, the waste [7].

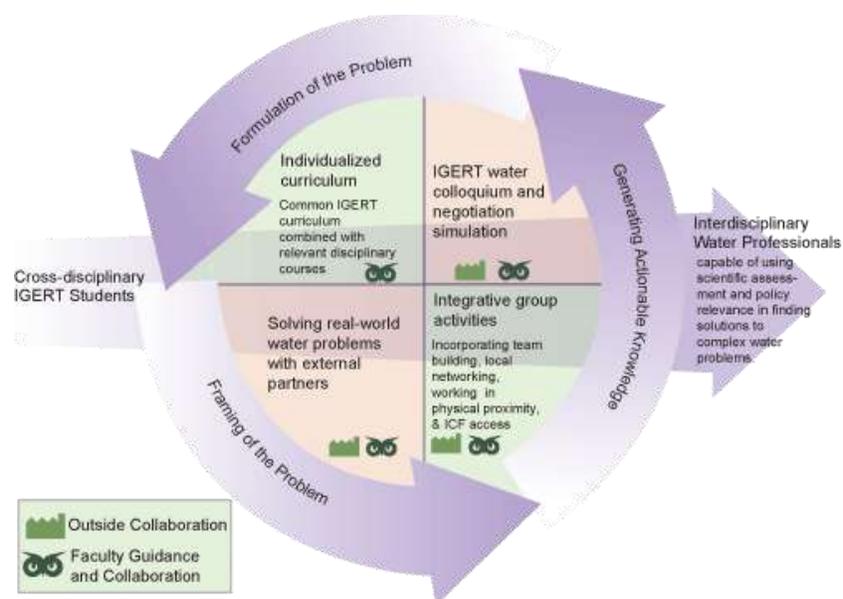
2. Home use:

In different parts of the house, such as swimming pools, bathrooms, kitchens, and aging water pipes etc. is wasted.

Suggested ways to save water in agriculture, and conservation of water:

Efficient use of water, and increasing the efficiency of irrigation, determining the optimal detection, control population growth and job creation, reduction of agricultural waste.

Water reuse, wastewater and recycled water use, the use of rules (Such as local ordinances governing water reuse). Some potential applications for re-use of wastewater and reclaimed water include. Other industrial use, irrigation, agricultural irrigation applications such as fountains and fire are beautiful.



Modernization of irrigation methods, including:

- 1) Modification of agricultural crops.
- 2) Genetically modified plants using new technology (biotechnology) and the production of new varieties that require less water.
- 3) Check the appropriate size of the farm in order to improve the efficiency of irrigation.
- 4) Investigate varieties resistant to drought and salinity, and to achieve it.
- 5) Reform the traditional irrigation.
- 6) Use of underground irrigation systems and the elimination of evaporation from the soil surface.
- 7) Water use back.
- 8) Modern and efficient irrigation methods such as irrigation, cable and wave surface.
- 9) Reducing direct evaporation of water and avoid watering during mid-day.
- 10) Use of proper methods of irrigation management to increase water use efficiency.
- 11) Selected for low irrigation plant (plants that have a short growing season and high water use efficiency and drought tolerance are).
- 12) Suitable for irrigation soil (soil with high storage capacity).
- 13) Fertilizer (particularly potash fertilizers and plant transpiration have an important role in the regulation of stomata and lower).

14) Greenhouse cultivation (with water use 10 times less greenhouse cultivation, harvesting 15 times more) [5].

Unfortunately, so far, in the drought of the past, to be exact, we have to act. Compensation to farmers, using short-term solutions for water supply, and other efforts of this kind, by no means enough, and a comprehensive approach remains empty. The intensity and amount of damages, in such a way that requires more and more fundamental measures to prevent these events take particular. You should understand the problem, tell the people, and the culture of saving, pushed back. Interaction and cooperation with radio and television and the mass media, to take appropriate measures consistent [5].

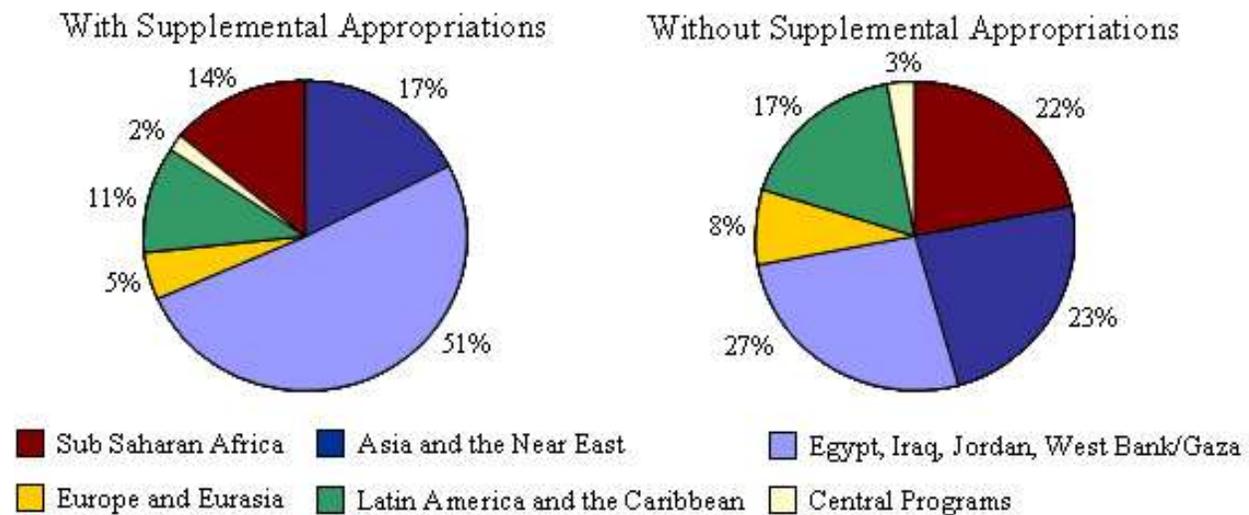
Suggested ways for saving and efficient use of water in homes:

Studies show that between 30 to 40 percent of the water that enters the homes, the kitchen is used, therefore, for optimum use of water, can be used in the following ways:

- 1) Harmful washing powder in water, sewage, comes from households, was obvious, therefore, should be tried, as much as possible, wash oily dishes in a tub of hot water volume, then, to draw water.
- 2) In the dishwasher, for fatty dishes, set the machine on the shortest cycle.

- 3) Always keep water in the bottle in the refrigerator.
- 4) Washing machines, automatic, non-automatic, to wash clothes so dirty, more convenient and less water they consume.
- 5) plumbing done so that, with the least waste of water, hot water to reach the shower, or the air valves used in the water, splashing water to form tiny droplets, water saving. This method reduces water consumption by 50 percent.
- 6) Wash hands and face and brush your teeth, try, not open water, with a glass of water, this happens.
- 7) If large flash tank installed in homes, and replacement cost, using simple tools, such as bottles containing sand and placing the flash tank, reduce the amount of water added.
- 8) Not closed dripping faucet, loss of too much water in it, can be corrected before tap water, a bucket below, that
- 9) In the expansion tank of heating their homes, located on the roof, you need to set the alarm clock, the filling and the source of the waste water, prevented.
- 10) Multiple use of water when washing fruits and vegetables, water consumption, spend watering gardens, or washing with water to water the pots.
- 11) Unreasonable watering gardens and pots, avoid, and the system of drip and drop of water in the cooler hours of the day, we use.
- 12) Washing machine outside the home, and in special workshops take place, if we had to, you must use a bucket and a hose back drop of water, avoid.
- 13) The establishment of a pool view or a private pool at home, avoid, and the public swimming pool, use.
- 14) Even kettles and samovars by the rate of evaporation, or other containers of water on the stove go to waste, they should also be considered.
- 15) The use of rainwater in the home town or village can be built so that the gutters, rainwater, leading to the garden.
- 16) To prevent children playing in the water and waste water.
- 17) Save water during the journey, just like home.
- 18) When you leave home, check the water, as well as risk and waste water, prevented.
- 19) The frozen food frozen without using water, frozen out, speak of, for example, put in refrigerator several hours before class.
- 20) waste dump trash in the bathroom and not washing them with water, so 600 to 2400 liters of water in stores [7].

Estimated Water for the Poor Obligations by Region (FY03-FY05)



Ways to save in the industry:

- 1) Reuse of water, wastewater and recycled water use.
- 2) Identify opportunities for water re-use.
- 3) Determine the minimum quality water for reuse.
- 4) Identify sources of waste water quality requirements to meet.
- 5) The best advantage of the reuse of water, and eliminating the need to expand facilities to delay the supply of drinking water purification [6].

In industry, the use of water for industrial cooling devices, one of the largest areas of freshwater, are considered. Therefore, recycling of water, with a cooling system, can

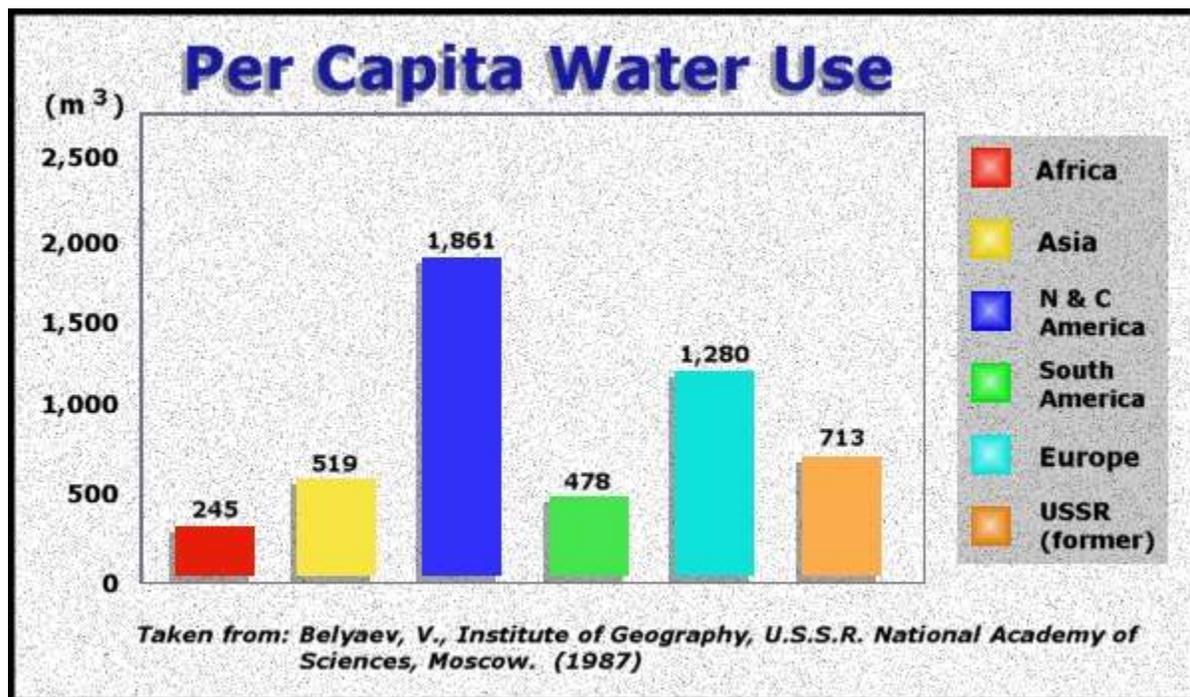
greatly rotary cooling water in several operations, reduce. And if, we manage water, otherwise, the result was not.

Water requirements:

Most urban water, water dams and underground water are provided. With rising populations, and raise the level of public health, and reducing rainfall, the lack of water, sea water desalination proposal, which partly cover the shortage of water.

Doctor Ali Darvish Zadeh, a professor of geology at Tehran University, states: Water Persian Gulf, Arab and installing desalination and billions of cubic meters of fresh water daily, and deliver to the consumer. Must ensure that water Mount Snow Country, in the shallow water areas, lead. The government can manage the catchment area of more

- 3) Get people to save through the national media, educational and research centers concerned.
- 4) Use expensive tariff, particularly in consumer households.
- 5) To prevent the installation of pipes, pumps and redirect surface water, which is illegal.
- 6) The plain banned in order to prevent underground water, especially when salt water is extracted.
- 7) The exploitation of water resources on the basis of Consulting Engineers and prevent emergency projects with limited studies.
- 8) Illegal harvesting water above recommendations is not accepted [5].



CONCLUSION

Saving water in agriculture, industry and homes etc., need a culture infrastructure. All in this together, and together, the problems of dehydration pass. For culture and preservation of water resources, everyone must change the culture, and it does not matter, unless any change of its people, and to teach others.

Planning and management to protect water resources of the country, as strong, we must

act, and government oversight, in agriculture, industry and others, to take on, and it all had to run all the rules.

Training people, we must start now. If a person trained to make a difference in your business, be sure to act on others, will have an impact, while, the person may be, and the management of industry, organization, office, school or home meet which will certainly have a significant impact on it. If farmers

teach, and remind them to get water, water consumption in the country, saves, and has protection from Iranian waters. As earthquake drills in schools is done every year, and all the practical training, which definitely has an impact on their behavior, the implementation of water conservation exercise for children, adolescents and young people from nursery and primary schools, to High School, has started, and they are given practical training. "Community Mothers" We, the people, can be direct or indirect Iranian waters protect. If mothers do at home that correct procedures use water effectively, certainly to their children, virtually all will do, and education, will be easier. Since children spend most of her time with her mother, the mother of them are very good, and if mothers to train their children, are protected from Iranian waters and ways to save their work and education with family supplements, then less anxiety about the loss of water and droughts in the future, we will. For students, the future leaders, and they should be for this, ways and methods and new technologies, and have already been trained, will be used. As for the eradication of illiteracy, the literacy movement, and for treatment in disadvantaged areas, the five-year plan we got medical help, water, and health literacy is

low, can college graduates in this important to train farmers to go for help.

The proposed solutions for water conservation culture in Iran:

- 1) Start saving and efficiency of education preschools.
- 2) Ways to save water, to mothers through family education classes in schools, parks, mosques, offices and 3) ways to save water, and the risks of dehydration, the festival popular song, with as ways of efficient use of water and protection of water resources.
- 4) Ways to save water at home, with radio and television advertising media, and create a training video, along with poetry, which in the minds of the people, should be replaced.
- 5) In preschools, education, preservation of water resources, in the form of poems, plays and stories for children.
- 6) The in-service classes with Iran and drought, for teacher's education, and other organizations.
- 7) The use of technology, like the Watts up and Viber etc., to inform people of the dangers of water scarcity and droughts, and suggest ways to avoid wasting water clip.
- 8) The use of actors and football players and athletes, the media and creating advertising messages for optimal use of water and protection of water resources.

- 9) Change attitudes and increase knowledge of water per person, at any age and profession.
- 10) Encourage friends and neighbors, to reduce water consumption, and benefits due to this issue.
- 11) Acts to encourage students to reduce water consumption and protect water resources of the country.
- 12) Education indirectly in movies.
- 13) The crackdown by the government, to create a culture of water conservation, such as not smoking on the bus, and safety belts.
- 14) The development of male students graduated in agriculture in military service, to train farmers to use the least water resources and irrigation, new and get a lot of products.
- 15) Ministry of Agriculture on the work of farmers, and non-traditional methods of irrigation and irrigation.
- 16) Installation of water meters for farmers.
- 17) Installed a large banner warning about water conservation, and protection of water resources in the city, in crowded places.
- 18) Learning to conserve water resources, through the radio, with short term, medium term, and long term agricultural sector.
- 19) Everyone has the right to start, and abandon selfishness and to spend the money to pay water, no waste water.

- 20) Using smart taps, with sensors in all buildings.
- 21) The use of water for each house, which have limited water, and the rationing of water, enough water to learn more.
- 22) Use sacks are made from hemp on the soil of a garden irrigation to reduce water evaporation rate.

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