



# Water—will there be enough?

There are five crucial issues that affect every farmer, rancher and individual who is concerned about the future of our water resources.

Those who can address these issues effectively will be able to profit economically while making a positive impact for generations to come.

The western states are facing a crisis over renewable water supplies. By the year 2020, Colorado will need to develop an additional 630,000 acre-feet (205 billion gallons) of water annually,<sup>1</sup> and other western states are similarly challenged. U.S. regional and worldwide needs are comparable: the United Nations estimates that by 2025, nearly half the world's nations will experience fresh water stress or shortages, and by 2050, 75% of the world's population could be short of water.<sup>2</sup>

- #1** There are very few options to produce true water conservation without severely affecting a producer's crop output. **REGENESIS MANAGEMENT GROUP KNOWS THEM.**
- #2** Water right owners throughout the western region have historically had little, if any, economic incentive to conserve their river-water rights. **REGENESIS MANAGEMENT GROUP EMPOWERS THEM.**
- #3** States throughout the U.S. need multiple delivery plans in addition to conservation to provide water service as demand increases. **REGENESIS MANAGEMENT GROUP PROVIDES THEM.**
- #4** Relatively few opportunities exist nationally for direct investment or participation in water conservation, acquisition and development projects. **REGENESIS MANAGEMENT GROUP HAS THEM.**
- #5** Cooperative conservation allows land- and water-right owners to be empowered by allowing farms and ranches to produce significant annual yields and conserve much of their resource for sale or lease at significant profit. **REGENESIS MANAGEMENT GROUP FACILITATES THIS PROCESS.**

The mainstream environmental movement in the U.S. is sometimes viewed in a way whereby in order for someone to do the "right thing," one must be regulated or somehow controlled. There are negative consequences to assuming that stakeholders will not actively engage in responsible use of our resources – if you wish for something, it may happen. There is another, healthier option to consider as it relates to encouraging more effective use of scarce resources.

**"When land does well for its owner, and the owner does well by his land; when both end up better by reason of their partnership, we have conservation. When one or the other grows poorer, we do not."**

– Aldo Leopold

Land and water are valuable property rights, and must be enjoyed with conservation and good stewardship in mind. Aldo Leopold (in *The Sand County Almanac*, 1949) described a land ethic where all worked together for good stewardship. He called it "Cooperative Conservation." Instead of coercion, he envisioned landowners, community stakeholders, government agencies and academia all coming together to promote stewardship, partnerships and business ventures which combine public and private lands and their right-holders.

**Water resources, land utilization and energy needs are global issues that affect us all and require conservation, responsible management and good stewardship. But the benefits of both capitalism and resource conservation are not mutually exclusive principles.**

**RegenesiS Management Group is committed to developing systems to assist farmers, ranchers and other water-right owners to reduce their water use and optimize their operations.**

**Contact us today to learn how our solutions to these five issues will change how you look at cooperative conservation, allowing you to preserve our environment and make a real difference for years to come.**

*Referenced Sources:*

- 1: Colorado Water Conservation Board
- 2: Colorado SWSI Demand Forecast 8/04 & 11/07

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## Company Overview

### A Philosophy of Cooperative Conservation

At RegenesiS Management Group, we focus on the efficient use and conservation of finite resources through proper diligence, integrity and innovative techniques.

We believe that *capitalism and resource conservation are not mutually exclusive principles*, and that both goals can be realized through the implementation of breakthrough technologies and profitable, beneficial systems to better utilize natural resources.

Our philosophy offers a positive impact for all stakeholders, including farmers and ranchers, business and industry, property owners, the community at large, and the environment.

### Resource Conservation is a Global Issue

Water resources, utilization of land, and energy consumption are global issues that affect us all and require conservation and responsible use. Droughts, policy changes and impacts of population have all limited the availability of fresh water, sustainable energy and land left in its natural, non-developed state.

According to the United Nations, water shortages will impact *half* the nations of the world by the year 2025, escalating to *75 percent* of all nations by the year 2050. The Colorado Water Conservation Board says that by the year 2030, Colorado will need to develop an *additional 630,000* acre-feet of water (the equivalent of 205 billion gallons) per year, to serve future population growth.

In the United States, water resource issues are already prevalent from the *Midwestern states to California*. Some of this water may come from new sources, but will need to be supplemented through better utilization of existing resources and increasing transfers of water rights away from current agricultural irrigation to municipal and industrial use.

### The Historical Model Is Not Working

Agriculture consumes the majority of renewable water in the western United States. Until now, the transfer of

water from agriculture to municipalities and industry has meant the withering of the farms where many water rights originate.

The challenge is only becoming more intense. With so many parties in need of a finite resource and the supply ever more limited, conservation must be a core priority for all future planned use.

Growing municipal and industrial interests are already pressuring agricultural water needs throughout much of the western United States. And there are parallel concerns about how the economies of agriculturally-dependent communities will be affected by the potential transfer of water to other uses.

### Innovation is Essential

New water and resource management techniques are essential. In Colorado, for example, the competition amongst agriculture, municipalities and private business for limited water resources is not only affected by availability, but also restricted by the water laws of the state, including principles of prior appropriation and rights of other water owners. In California, banks and lending institutions are insisting that farmers certify the amount of water rights owned before receiving loan proceeds.

*These issues are all intertwined*, and innovative techniques are essential to maintaining balance and providing for more responsible use of water resources.

RegenesiS Management Group is initiating a combination of processes, instrumentation and technology which provide a proven system to sustain irrigated agriculture, while meeting the increasing urban water needs in Colorado, in addition to other western states. This will be done by maximizing the efficiency of agricultural water use, and minimizing the amount of water wasted.

### The SWIIM™ System

RegenesiS Management Group has developed a system to keep farms in operation while actually increasing the transfer of



water to other uses. We call it

### Water, Land and Energy.

Defining and Implementing Responsible Stewardship of Natural Resources.  
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SWIIM™, or Sustainable Water and Innovative Irrigation Management™, which incorporates a patent-pending application of water optimization management, the use of instrumentation, and the implementation of a proprietary software-based model.

This innovative marriage of application and technology is driven by our philosophy of cooperative conservation, and enables a more efficient use of water resources.

When utilized properly, this comprehensive approach acts as a conserving technology, along with monitoring and verification of saved consumptive water use, in addition to return flow.

Regenes Management Group is confident that its research will result in the development of processes to quantify and transfer proportional consumptive use water to other users, allow for continued agricultural applications, and provide for an easy-to-follow process to facilitate the many potential uses of water rights throughout Colorado and beyond— from agriculture to municipal use and everywhere in between.

In western states, Regenes Management Group will develop and license the use of its instrumentation and technology to

- allow farmers, ranchers and other users to reduce a portion of their agricultural water use,
- transfer that use to thirsty municipalities and businesses,
- while retaining much of their water rights for continued use on their farms for future generations.

## A New Kind of Strategic Partnership

Regenes Management Group maintains research and development relationships with numerous strategic partners. These include:

- the Agricultural Research Service of the United States Department of Agriculture,
- Colorado State University, and
- private development partnerships with scientists and engineers in the region who are known experts in their respective fields.



Our partners are focused on identifying a higher and better use for natural resources and assisting in

implementing innovative techniques to the public and acquire market acceptance of these new processes.

## Depth of Expertise

Our principals have spent the past several decades acquiring, developing and preserving natural resource assets. These include water, energy, development land and water storage, in addition to remediation of soil and groundwater.

Our team has worked with farmers, ranchers, municipalities, government, the private sector and other stakeholders to establish cooperative partnerships that provide a “win/win” for all participants.

## The Next Phase

Beyond the farming and ranching community, Regenes Management Group plans to expand its business plan to include licensing of this instrumentation and technology to commercial users of water— including wineries, breweries, sunflower seed distributors, and corporate food producers, allowing them to also share the benefits of this water conservation system.

The systems and technology developed by Regenes Management Group and its partners provide for a more efficient, responsible use of natural resources. By partnering with stakeholders who can all benefit from a more efficient utilization of water resources in their respective communities, thus allowing them to become better stewards of our natural resources.



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