

# An Ag-Tech Pivot: Saving the American Southwest from a 'Dead Pool' Water Supply Collapse

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 /EINPresswire.com/ -- The latest water supply figures from the Bureau of Reclamation read like a disaster script. As of May 11, 2026, Lake Mead and Lake Powell—the lifelines of the American West—are at a staggering 30.9% and 23.5% capacity with the lowest mountain snowpack in recorded history. The emergency water release started on April 23rd from the Flaming Gorge reservoir is a desperate attempt to keep Lake Powell’s power turbines from hitting a "dead pool" standstill—the point where water levels drop too low to flow through the dam and generate power.



**WATER TODAY. FOOD TOMORROW. ACTION NOW.**  
 "If you want to predict the future, be very aware of what's happening in the present." — Laurence Overmire

- 1 THE WARNING IS HERE**  
 2022 drought triggered mass herd liquidation as alfalfa prices topped \$600/ton. In 2022, about 3.95 million beef cows were slaughtered—highest since USDA tracking began in 1995. By 2023, the beef cow herd hit its lowest level in decades. **This was not a normal cycle—it was a structural collapse of the breeding herd.**
- 2 WATER SUPPLIES ARE SHRINKING**  
 Southwest facing all-time record-low snowpack and near-record-low reservoir levels. **LAKE MEAD: 32% of capacity (As of April 20, 2026)** **LAKE POWELL: 24% of capacity (As of April 20, 2026)** **Now come the dry months with little to no snowpack.**
- 3 DEMAND IS EXPLODING**  
 Southwest states AZ, UT, NM, TX, and NV are seeing major population growth. Water-intensive infrastructure is expanding rapidly. **\$44B chip production center in Texas projected to use 5–10 million gallons per day.** Hundreds of new data centers will evaporate millions of gallons more.
- 4 SEVERE CUTBACKS ARE INEVITABLE**  
 By the October 1 land deadline, Colorado River allocations face severe cuts. Regulators will target the highest water users. **Livestock feed is vulnerable.** Alfalfa and grass hay are the #1 and #3 water-consuming crops, accounting for more than half of Southwest agricultural water use.
- 5 FACED WITH THE CHOICE...**  
 PEOPLE, CHIP PRODUCTION, DATA CENTERS, ALFALFA. **Where would a regulator cut: people, chip production, data centers, or alfalfa?**
- 6 THE CRISIS IS REAL AND WELL-DOCUMENTED**  
 Dozens of reports released in the last two months point to the same conclusion. **Reservoirs at historic lows**, **Snowpack collapsing**, **Aquifers drying up**, **Leaves drying up**, **Land subsidence and basic civil risk**. **Food supply at risk**, **Power generation threatened**, **Infrastructure under pressure**. **The signals are predictive. The time to act is now.**
- 7 THE SOLUTION IS SPROUTING GEAR INC.**  
 Climate-controlled, Low-water, High-nutrition, Green year-round, Uses up to 90% less water than traditional hay, Reliable local feed production, Built for drought resilience, Supports livestock nutrition and food security. **A MASSIVE MARKET OPPORTUNITY** As water gets cut and feed costs rise, Sprouting Gear Inc. provides a low-water alternative the livestock industry desperately needs. **THE IDEAL TIME TO LAUNCH OUR PILOT PROJECT IN ARVINE.**

Lower Water Use • Greater Food Security • Stronger Industry Resilience • Sustainable Future **Let's grow a resilient future — together.**

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We aren't just saving water. We need to rebuild the foundation of how we feed the country.”

*Paul Pluss*

The historical formula for the American West—predictable snowpack and reliable reservoirs—has fundamentally collapsed. In 2026, the math no longer adds up.

While population growth and new industrial giants—such as the \$44 billion semiconductor manufacturing hub in Texas and dozens of new data centers projected to evaporate tens of millions of gallons of millions of gallons per day—are often

blamed for the strain, the reality is far more grounded. Roughly 60% of all water pulled from the Colorado River and regional aquifers doesn't go to cities or microchips. It goes to [cattle feed](#)—specifically alfalfa and grass hay the #1 and #3 heaviest water usage crops. The valleys that feed our nation hold more senior water rights than cities with tens of millions of people that bloomed long after the water was originally allocated.

The Alfalfa Dilemma

Federal regulators are now staring down an October 1 "hard deadline" to reallocate water rights. Faced with a choice between drinking water for millions and flood-irrigating a field of alfalfa, the outcome is inevitable.

"Regulators will choose people and industry over the century-old allocation to alfalfa and grass hay and call it a "common-sense decision," says Paul Pluss, a veteran of the hydroponics industry who has spent the last decade tracking the intersection of hydrology and livestock feed. "When those cuts hit, hay prices won't just rise—they will triple. We are looking at a structural collapse of the American beef and dairy industry."

In the 2022 drought, feed costs doubled, forcing a mass liquidation of herds, with 34.4 million cattle sent to slaughter—the highest in recent history. Pluss warns that what is coming later this year could be worse and far more permanent, as farmers lose the ability to maintain even their critical breeding stock.

### A Solution in a Warehouse?

However, a potential workaround is quietly taking shape in the Southern San Joaquin Valley. Pluss and his team at [Sprouting Gear](#) Incorporated (SGI) are moving away from the traditional model of selling hydroponic equipment and are instead pitching a new industrial sector: Hydroponic Grown Feed Distribution Hubs.

The concept is a blueprint for a large-scale pilot facility near major feedyards in an area currently experiencing some of the most depleted aquifers in the state. Inside a massive 150,000-square-foot climate-controlled warehouse, SGI claims they can produce 71,000 tons of cattle feed per year, growing barley seed into nutritious roots and grass feed using 99% less water than traditional farming.



A close look at Sprouting Gear's barley fodder—showing root structure, shoot density, and the vibrant growth achieved in just 9 days.



Cattle feed on fresh, nutrient-rich hydroponic barley fodder mats produced by Sprouting Gear's indoor system.

## The Data is Striking

The efficiency gains of the SGI hydroponic model compared to traditional alfalfa farming represent a massive shift in resource management:

**Traditional Alfalfa Farming:** According to a UC Davis report, alfalfa requires approximately 570,000 gallons\* of applied water per ton. This method results in high evaporation and rapid aquifer depletion.

**SGI Hydroponic Method:** Requires only 180 gallons of water per ton. This zero-evaporation, climate-controlled environment ensures maximum efficiency.

**The Efficiency Gain:** This represents a 99% water savings, with the potential to preserve 13 billion gallons of water annually from this one site.

## The Economic Pivot

Critics have long argued that the high upfront costs and energy requirements of hydroponics were not economically viable, but Pluss maintains that the math of growing lettuce for humans versus growing feed for cattle is completely different. Cattle feed can be produced with the SGI system using 100 times less grow lighting energy per ton or calorie than vertical farming leafy greens.

In 2026, as hay costs are projected to double once again and water rights become more expensive than the land itself, the "economic gravity" has moved in favor of indoor feed production.

Rather than "fallowing"—the practice of paying farmers to stop farming to save water, which devastates local economies—SGI's model focuses on local job creation and maintaining the agricultural supply chain. The project is currently navigating the final stages of institutional financing, seeking the last pieces of equity to prove that sustainable agriculture isn't just a moral imperative, but a profitable one.

As the Southwest enters its driest six months with record-low snowpack, this project represents more than just a pilot; it is a test case for whether the West can innovate its way out of a thirsty grave.

"We aren't just saving water," Pluss notes. "We need to rebuild the foundation of how we feed the country."

For more on the hydrological data behind this shift, watch the investigative short: [The Water Crisis That Will Collapse America's Beef Supply - View the Report](#)

\*Research Source: UC Davis: [Alfalfa Irrigation in Arid Regions \(PDF\)](#)

\*Validating the numbers

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