

A person with short blonde hair, wearing a blue shirt and brown pants, is sitting on the ground in a field of tall grass and yellow wildflowers. They are sitting in front of an orange and yellow tent, looking down at an open book. The background shows a range of mountains under a bright, hazy sky, suggesting a sunset or sunrise. The overall scene is peaceful and suggests a connection with nature and learning.

Land, Water and the Future of Agriculture

Incorporating Cutting Edge Technology

Introduction

- **Agriculture is a defining element for Utah**
- **Production requires Land and Irrigation**
- **75% of diverted water is used for agriculture**





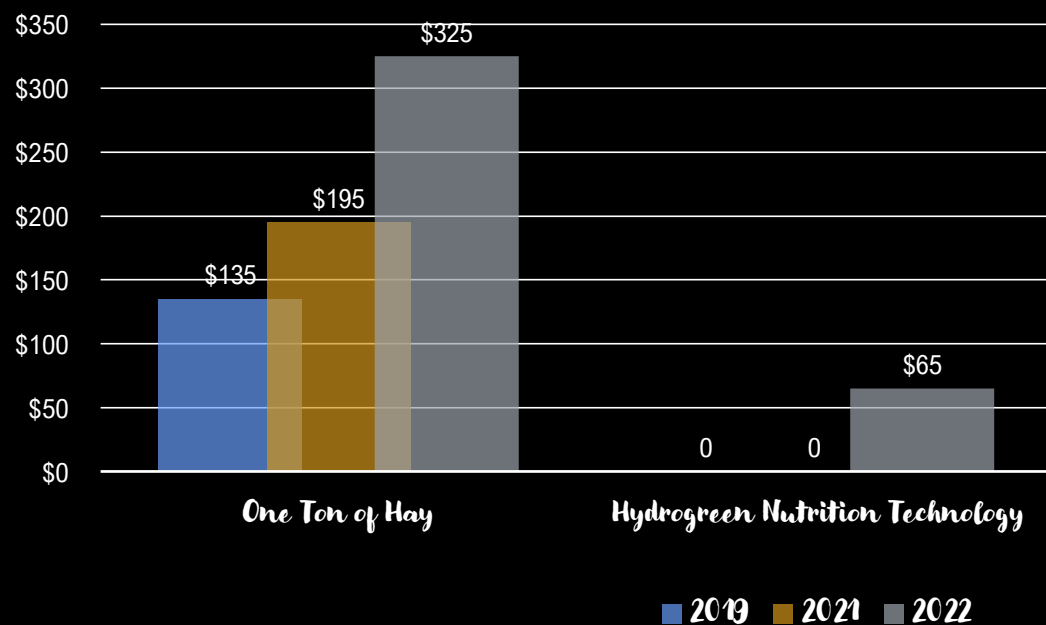
Empower Farmers, Protect Natural Resources

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- Multiple year drought
 - need economic resilience
- Increasing hay prices
- Decreasing hay supply
 - consider alternative feed sources

Precipitation Affects Hay Production

Hay production costs per ton



Utah's Largest Crop by Acreage

Much Water goes towards Alfalfa



UTAH'S IRRIGATED AG LANDS BY ACRES

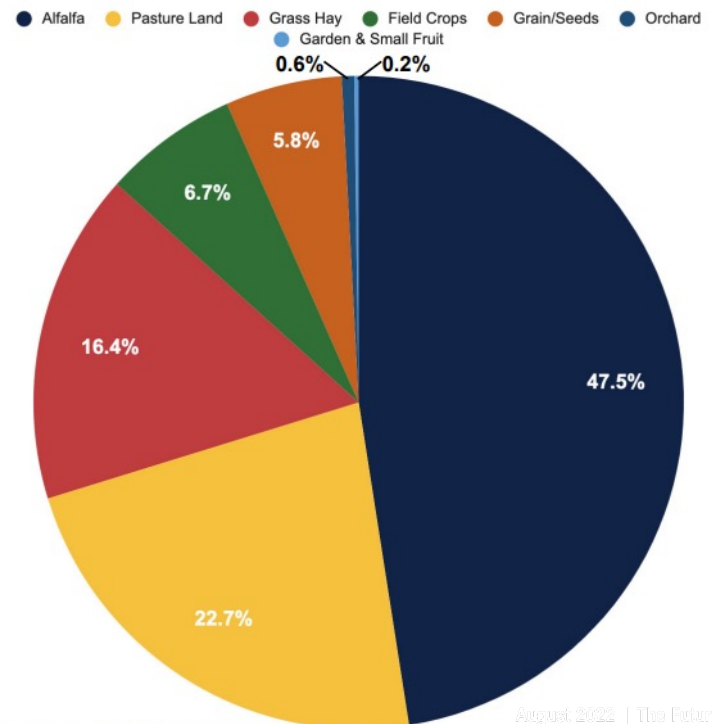


FIGURE 2 Utah's Irrigated Lands by Acres (Source: USDA)

The Future of Agriculture

- **Utah's Coordinated Action Plan for Water**
 - **1.2 million acres farmland lost 1997- 2017**
 - **Need to connect agricultural production with agricultural processing for growth & security**





Water Optimization

Utah's Coordinated Action Plan:

- Prepare the State for Growth**
- Protect public resources**
- Facilitate innovation**

Utah's Water and Farmland

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Land Use



Water



Agriculture Economic Sustainability



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*The
Next
Generation*



Calf Roping



Bull Riding



Bronc Riding



Herding



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The Cowboys



Watering the Cows



Roping the Calves



Branding

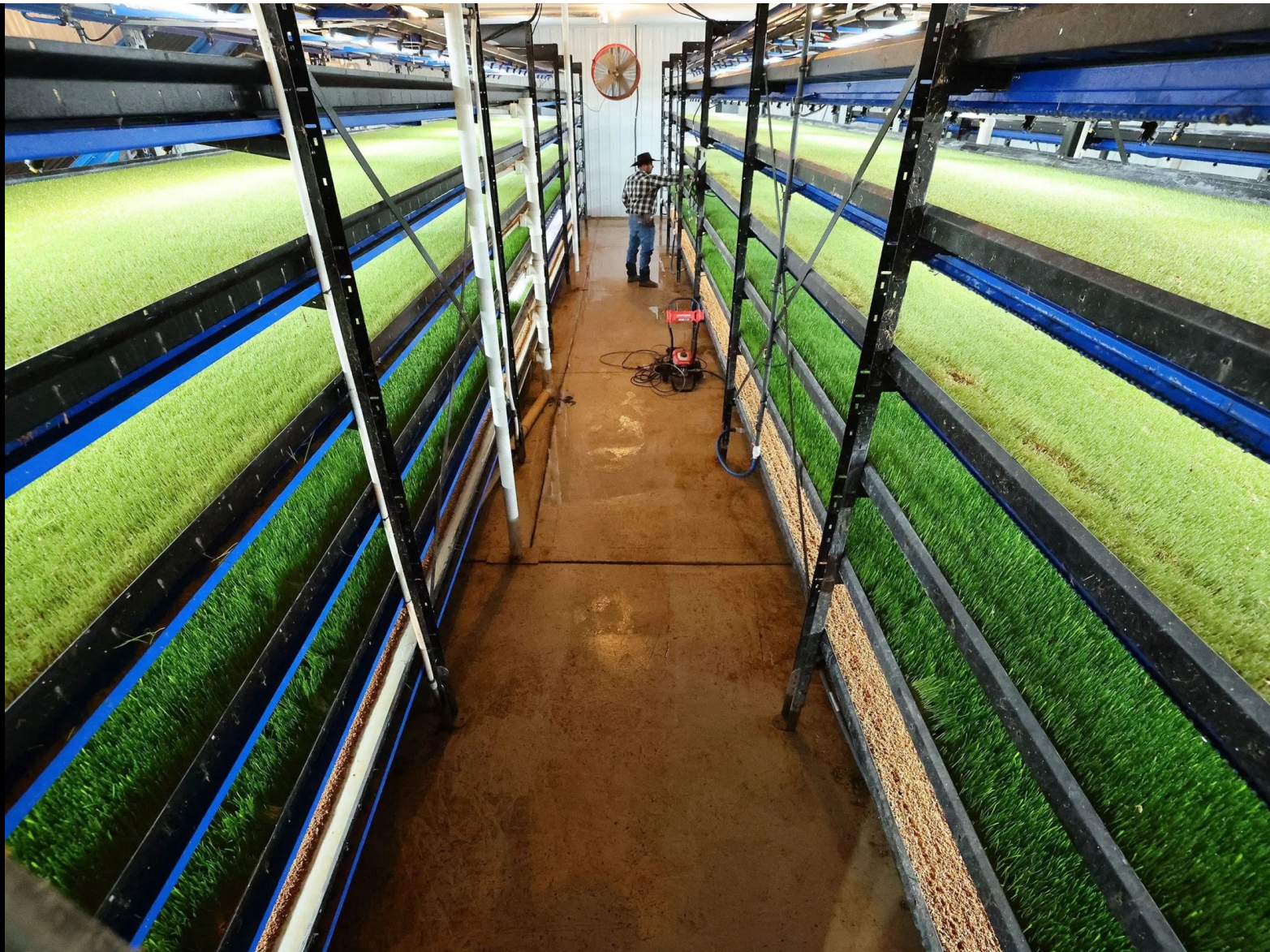


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Automated Hydroponic Fodder System

Conveyor Racks

Photo: Jeffrey D. Allred, Deseret News



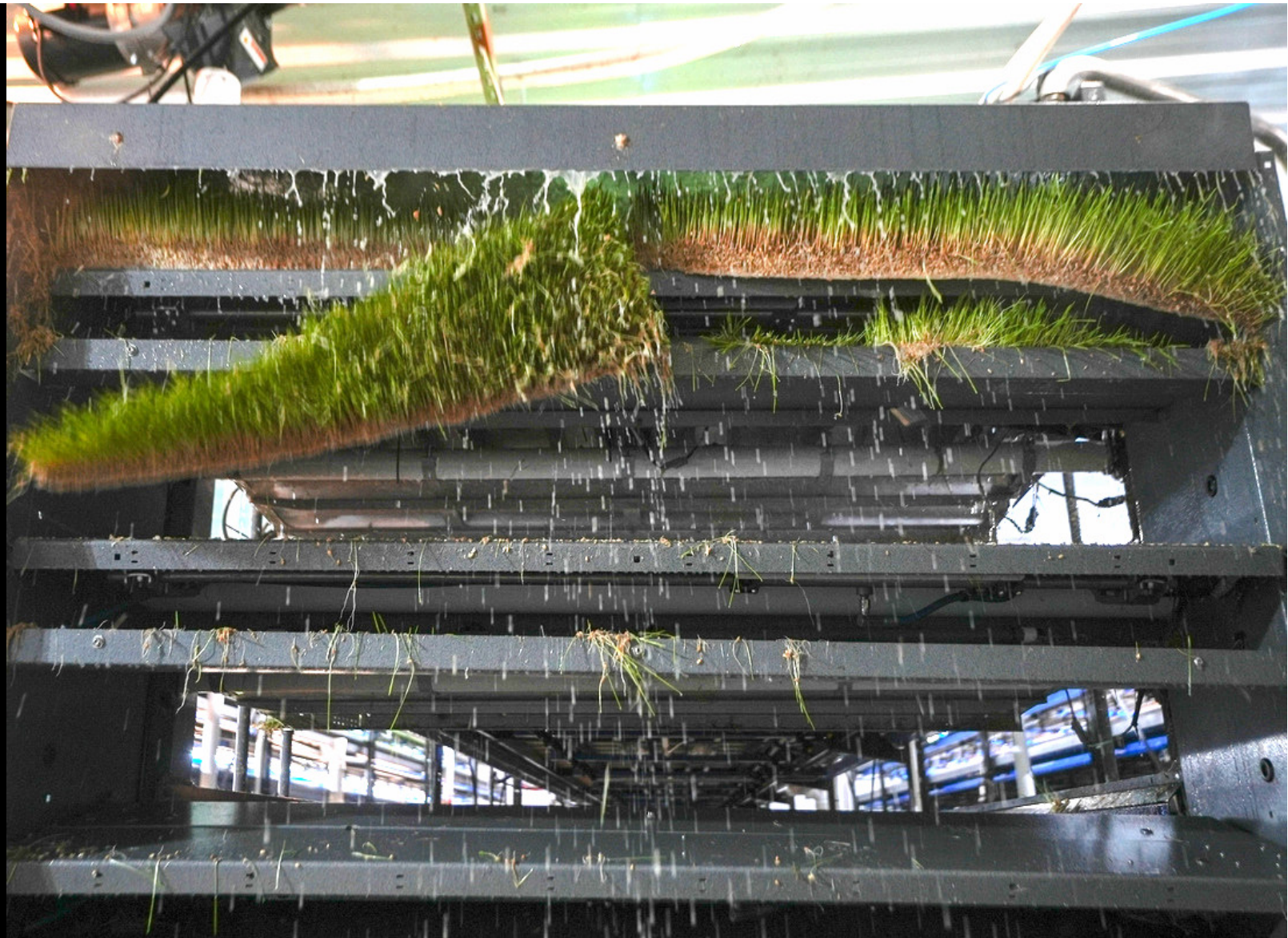
*Sprouting
the
Fodder*



*Growing
the
Fodder*



Harvesting the Fodder



*Transporting
the
Fodder*



Loading
the
Fodder



*Silaging
the
Fodder*

