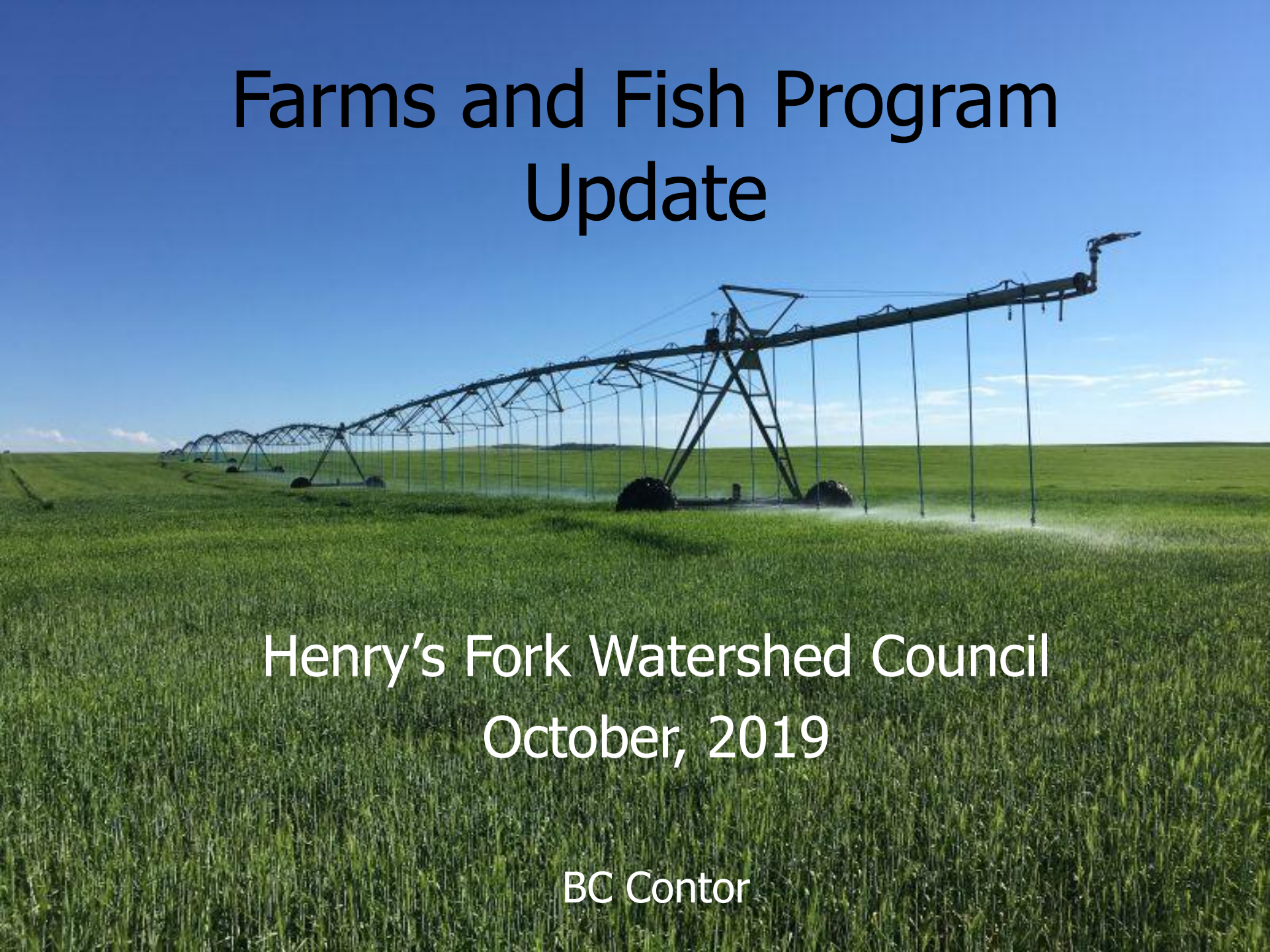


Farms and Fish Program Update



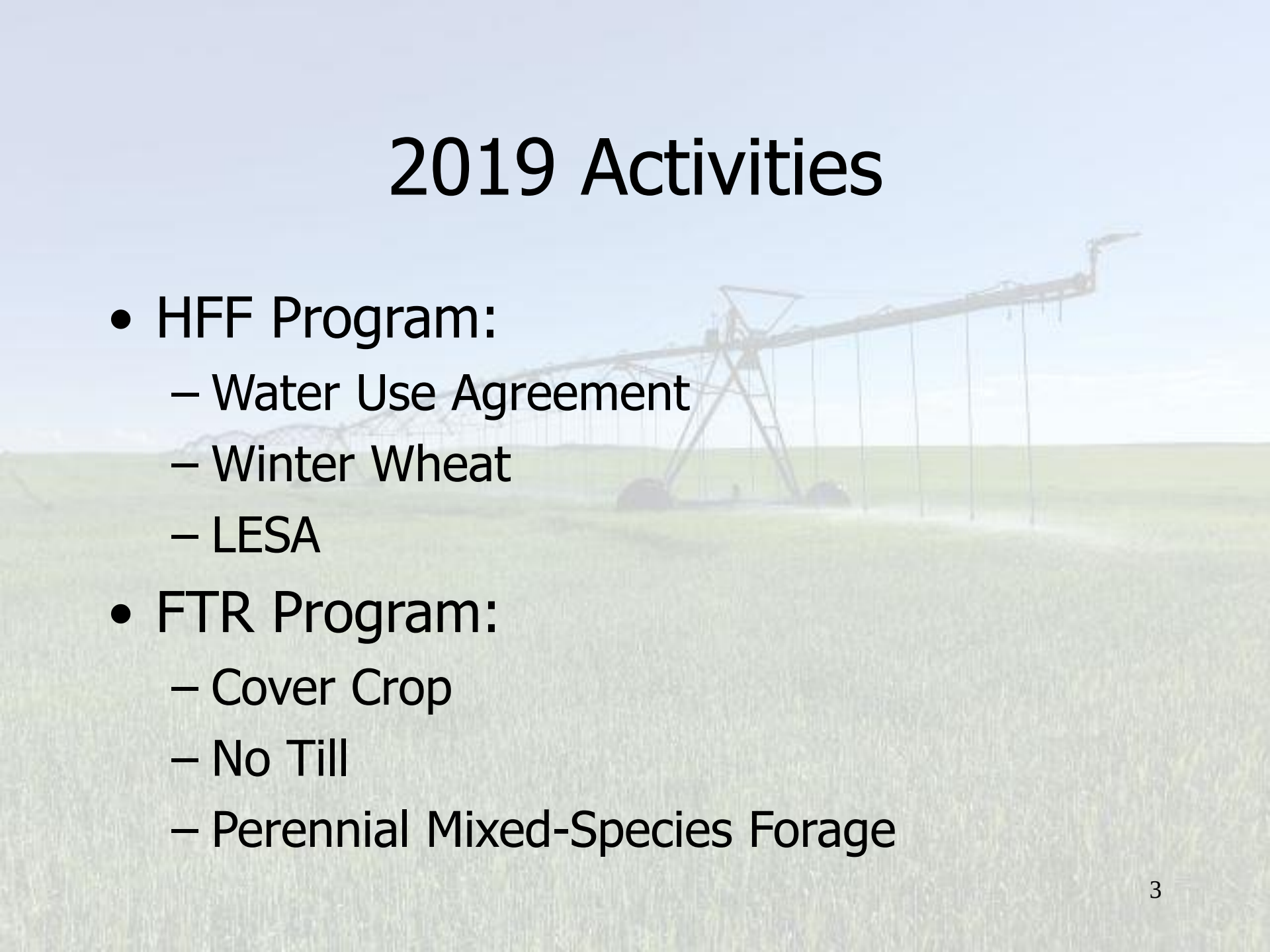
Henry's Fork Watershed Council
October, 2019

BC Contor

Overview

- HFF Program: Improve physical reservoir storage in the fall
- FTR Program: Improve soil health & reduce sediment delivered to the river

2019 Activities



- HFF Program:
 - Water Use Agreement
 - Winter Wheat
 - LESA
- FTR Program:
 - Cover Crop
 - No Till
 - Perennial Mixed-Species Forage

2019 Activities

- HFF Program:
 - Water Use Agreement
 - Winter Wheat
 - LESA
- FTR Program:
 - Cover Crop
 - No Till
 - Perennial Mixed-Species Forage

[HOME](#)

[NEWS](#)

[PRINT](#) ▾

[EVENTS](#) ▾

[ONLINE](#) ▾

[ABOUT US](#) ▾

[CONTACT](#)

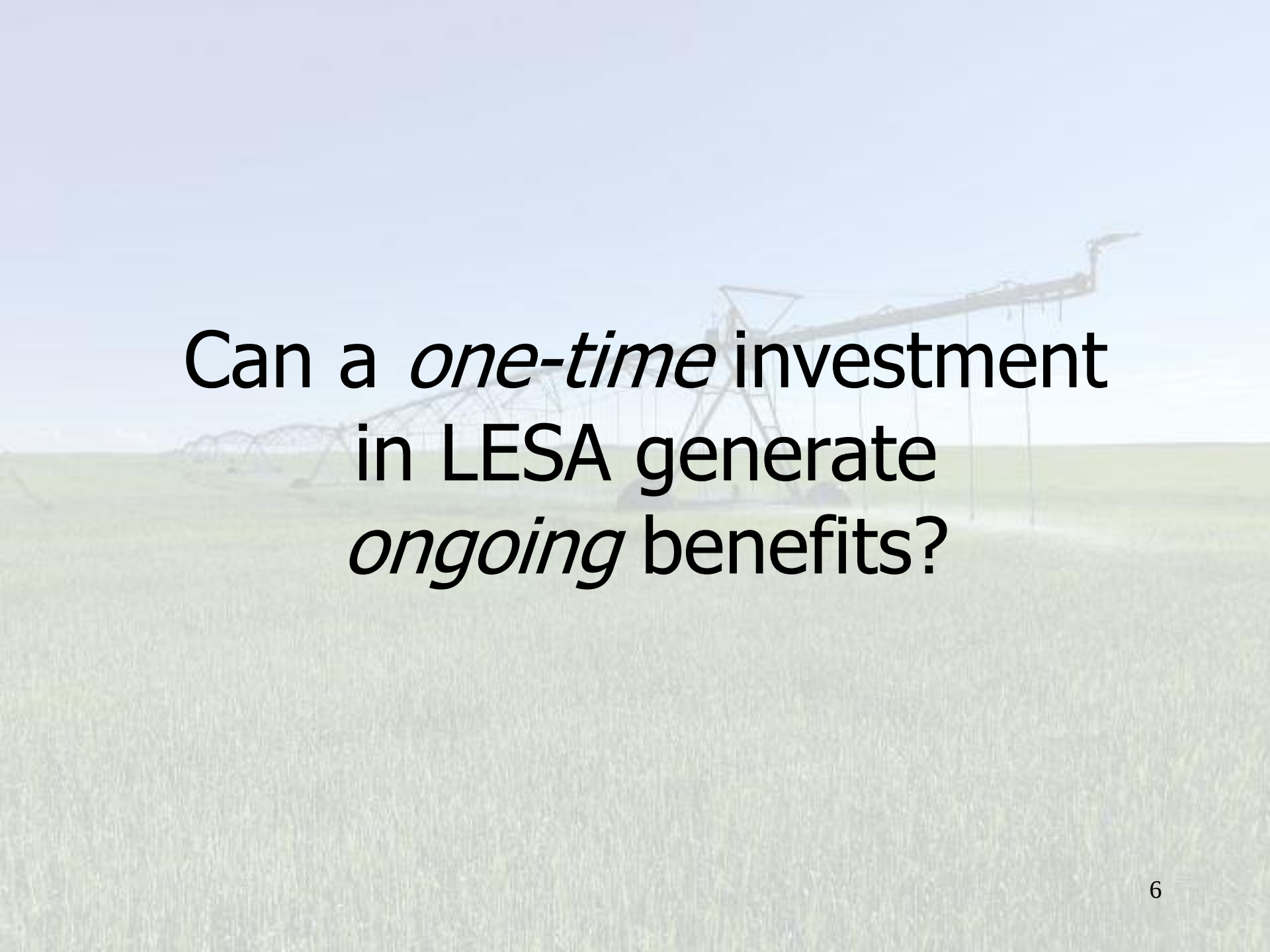
[Home](#) ▸ [News](#) ▸ [LESA irrigation system conserves water and energy](#)

News

LESA irrigation system conserves water and energy

By [Hose & Coupling World](#)





Can a *one-time* investment
in LESA generate
ongoing benefits?







LESA

Irrigation efficiency: ~97%
 Operating pressure: ~ 15 psi
 Outlet spacing: <5 ft
 Application rate: very high



Conventional

Irrigation efficiency: 85%
 Operating pressure: ~25 psi
 Outlet spacing: 8-15 ft
 Application rate: high

LESA vs Conventional

- *Great intern from Iowa State*
- *Great technical & hardware assistance from U of Idaho*

Slide excerpts: Caryn Dawson

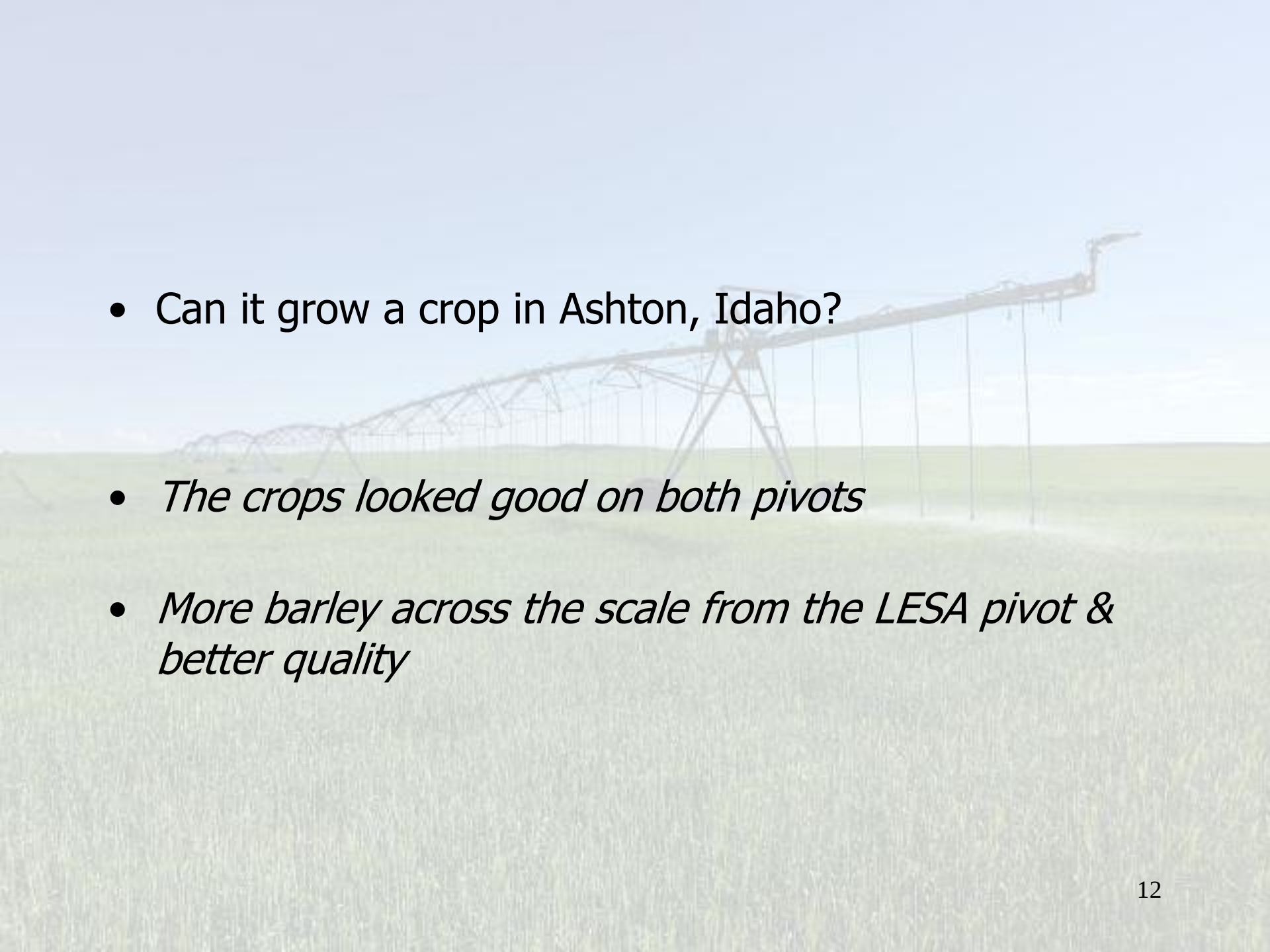


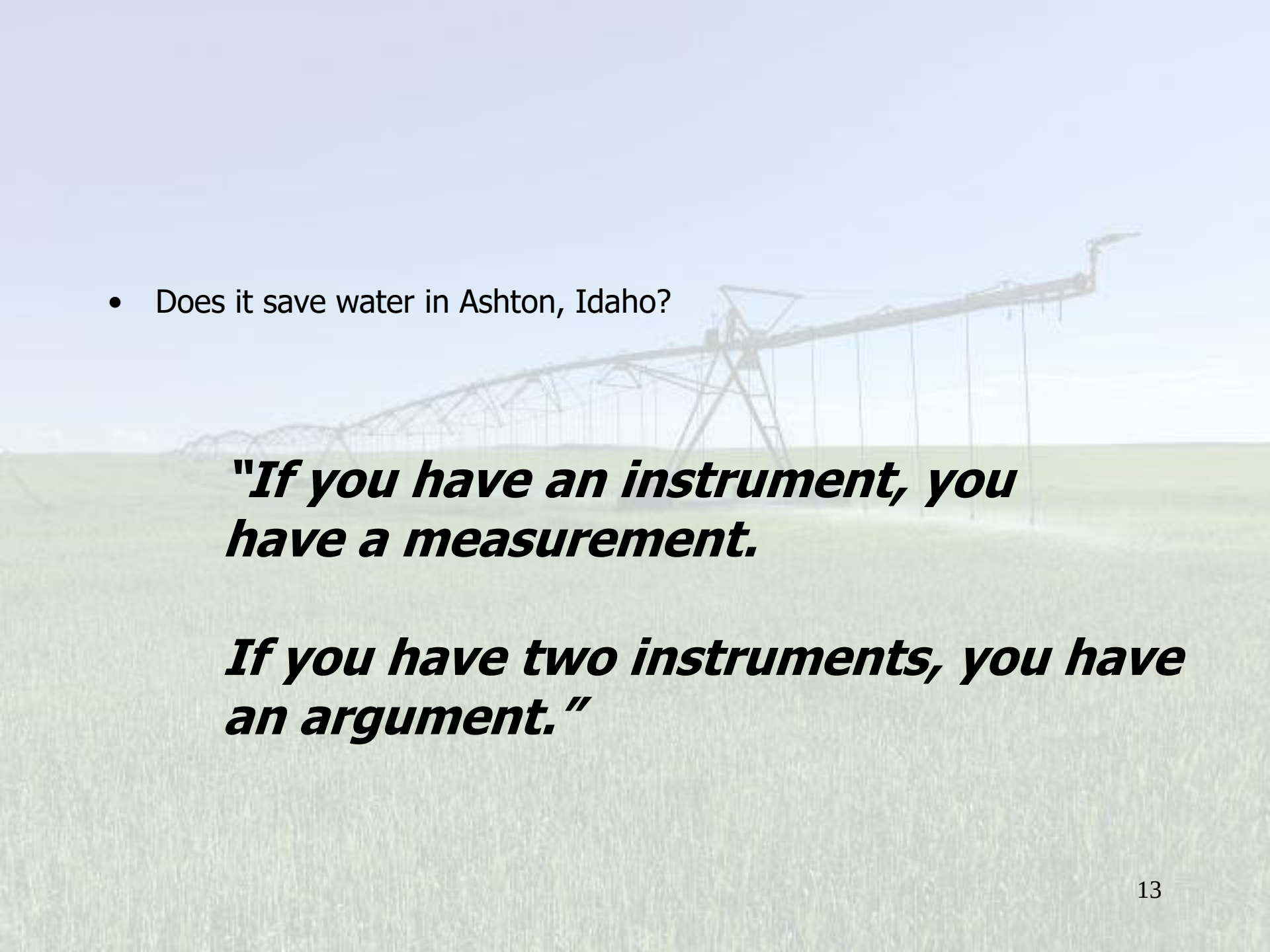
Three Questions

- Can it grow a crop in Ashton, Idaho?
- Does it save water in Ashton, Idaho?
- **What about down-wind effects?**

- Can it grow a crop in Ashton, Idaho?

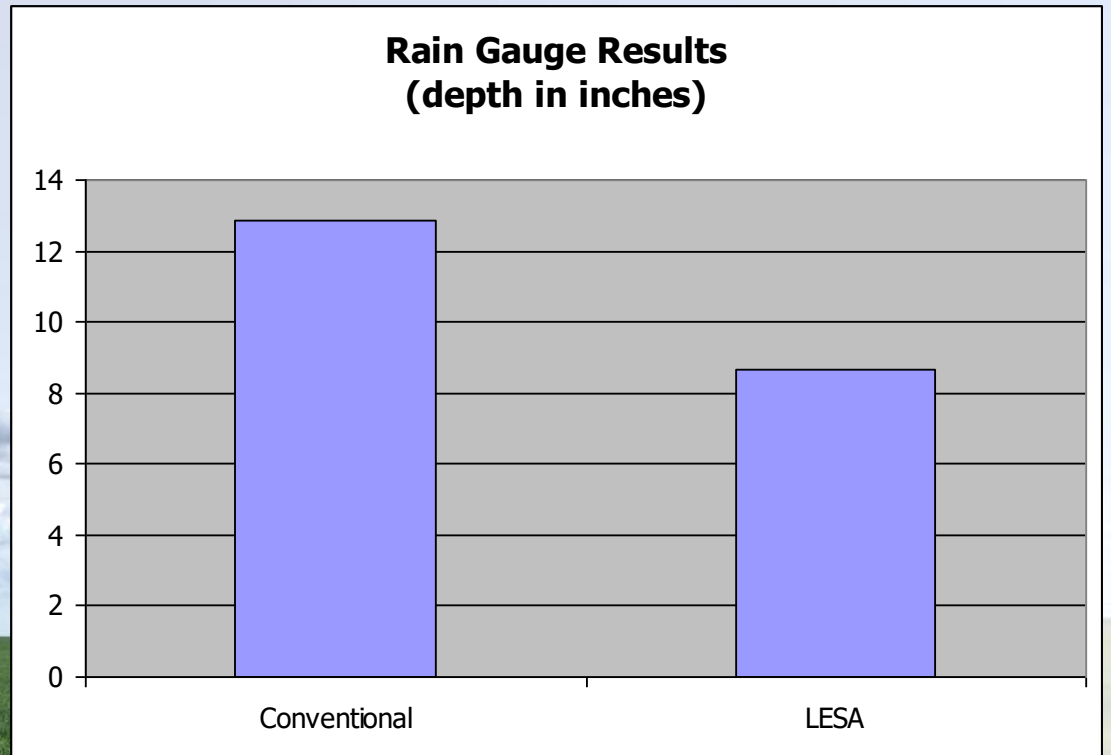
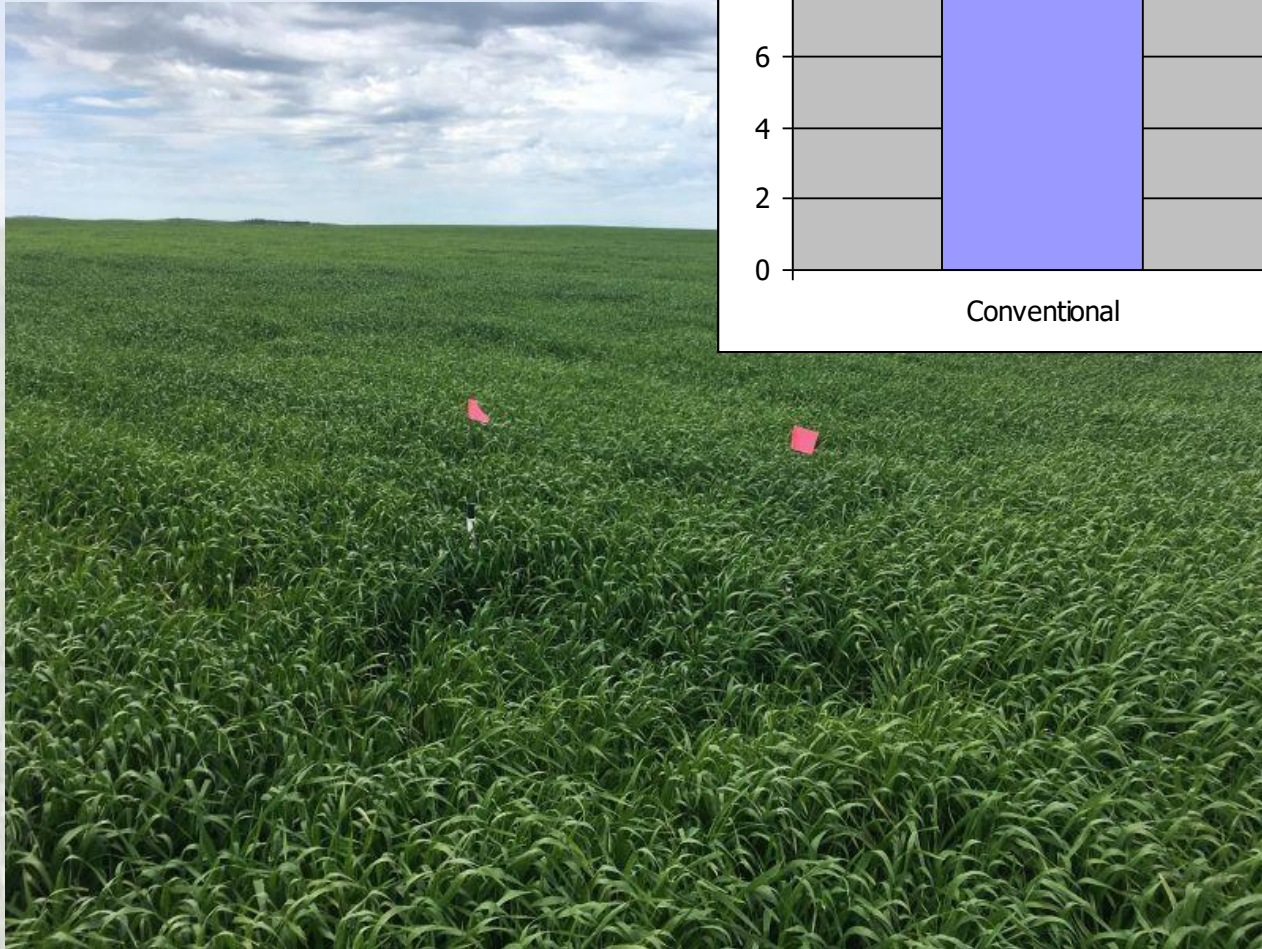
- *The crops looked good on both pivots*

- 
- A large center pivot irrigation system is shown in a vast, green agricultural field. The system consists of a long, straight metal arm supported by a series of tall, A-frame towers. The arm extends from the foreground towards the horizon, where it curves slightly. The field is a uniform green, suggesting healthy crops. The sky is a clear, pale blue. The overall scene is a wide-angle shot of a modern agricultural landscape.
- Can it grow a crop in Ashton, Idaho?
 - *The crops looked good on both pivots*
 - *More barley across the scale from the LESA pivot & better quality*

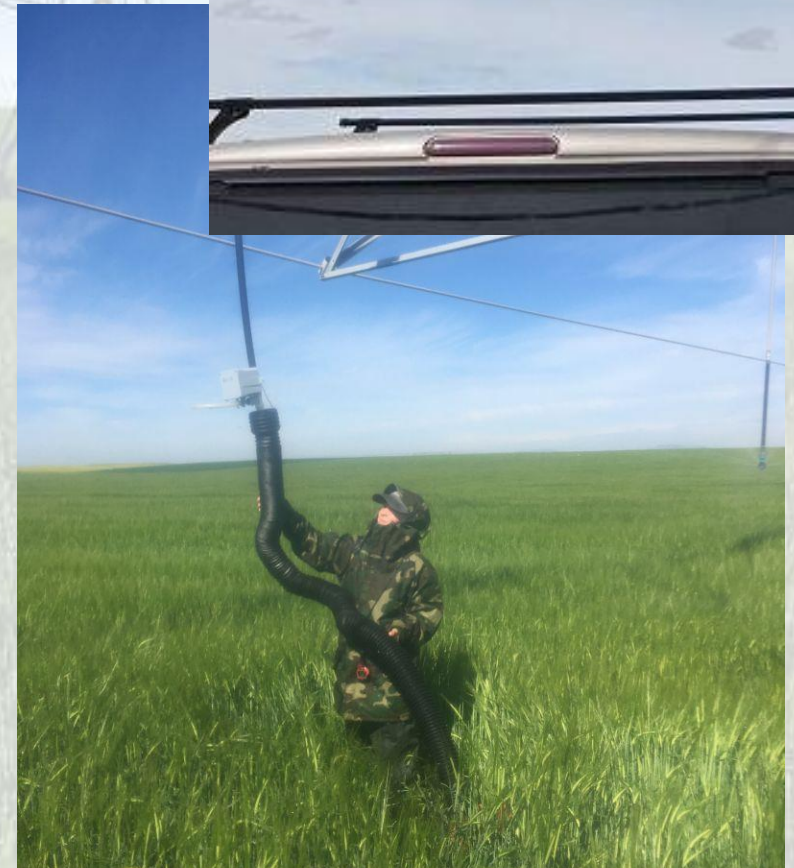
- 
- Does it save water in Ashton, Idaho?

"If you have an instrument, you have a measurement."

"If you have two instruments, you have an argument."



- Conventional
 - 568 gpm
 - 702 hours
 - 73 acre feet
- LESA
 - 560 gpm
 - 791 hours
 - 82 acre feet



summary **map** reports my profile farm notes

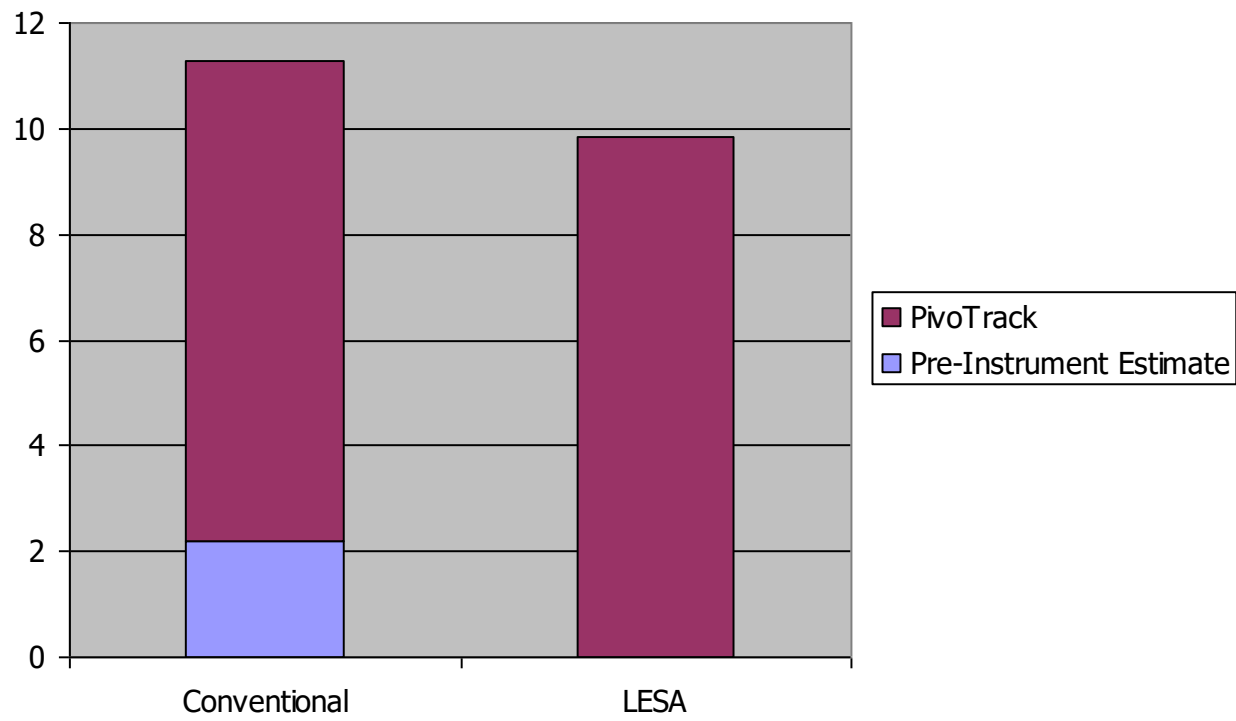
DETAILS FOR SITE: FARNUM #1

history setup **site notes** co

current status	s	last report	15
t/run days	29.3	crop	
ches applied	9.09	variety	
nfall 2012	0.00	plant date	
al	9.09	desired finish da	
week	2.03	desired finish ac	
j finish ac in	0	yield	
		bu. per ac/in	

POSITION BY GPS

PivoTrack Comparison (Inches)



- **What about down-wind effects?**

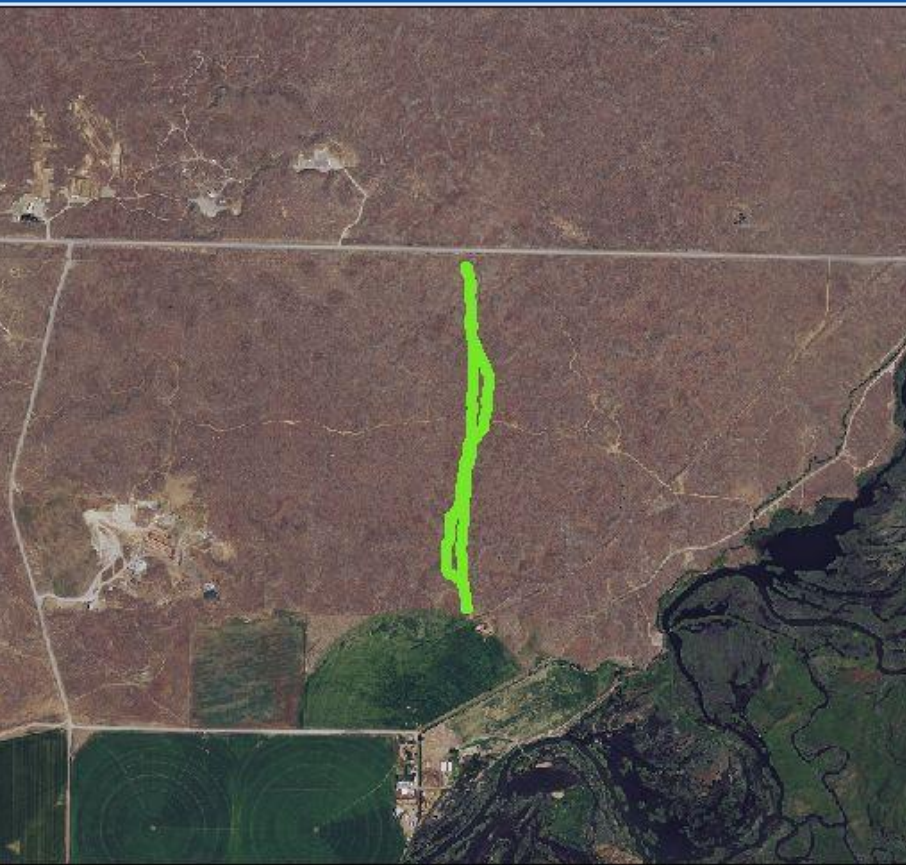
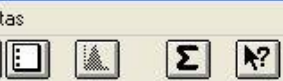
Conclusion

- LESA center pivot exports drier, warmer air, as hypothesized

- *This is statistically Significant -*

Is it Practically Significant?

- ***How much change in ET?***
- ***How far down wind?***



Search Desktop

11:09 AM

What does it all mean?



What does it all mean?

- There's got to be a pony in here somewhere

Art Quote

In other words, if your boy is a poet, horse manure can only mean flowers to him; which is, of course, what horse manure has always been about.

—Ray Bradbury

What does it all mean?

- There's got to be a pony in here somewhere
- We remember and honor Granny's "hypocrites oath"



What does it all mean?

- There's got to be a pony in here somewhere
- We remember and honor Granny's ~~"hypocrites oath"~~

Hippocratic

"primum non nocere"



What does it all mean?

- There's got to be a pony in here somewhere
- We remember and honor Granny's ~~"hypocrites oath"~~

Hippocratic

"primum non nocere"
(first do no harm)



END

