# Wisconsin Potato and Vegetable Storage Research Facility

Chuck Kostichka, Superintendent Hancock Agricultural Research Station

2007

Wisconsin Fertilizer, Aglime and Pest Management Conference January 18, 2007

## Conceived by growers...

...to enhance the performance, quality and consistency of potatoes developed, grown, stored, marketed and processed in Wisconsin

### Designed by growers...

...to meet the current and future needs of a dynamic industry

Expand knowledge under traditional storage management philosophies

Explore "new frontiers" in storage management and energy conservation

#### WPVGA Storage Research Committee

Growers, processors, Associate Division members, UW researchers

Two years of meetings, discussions, debate and finally....consensus as to form and function of the facility

#### Specifications...

165' x 104' Storage Research Facility

9 "bins" to mimic bulk storage

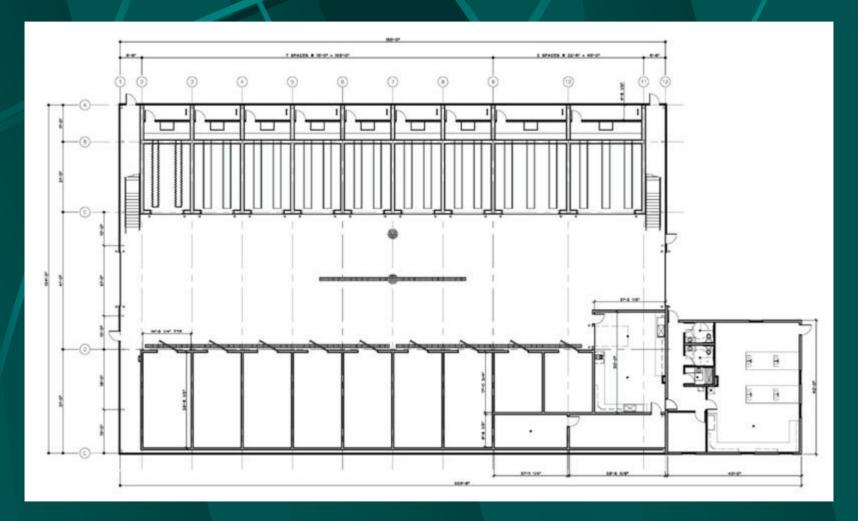
9 "lockers" for small storage units

State of the art control systems

**Processing Laboratory** 

40' x 40' Quality Assurance Laboratory

#### Floor plan...



#### Built by growers...

...through grants, individual gifts, and industry-wide commitment

**USDA Specialty Crop Grant** 

Wisconsin Potato Industry Board

Cash donations

**Equipment donations** 

Deeded to University of Wisconsin upon completion

#### Groundbreaking...



April 5, 2006
Located on the Hancock Agricultural Research Station

#### Construction begins...



April 17, 2006

The first of many yards of concrete

#### Construction proceeds,...



#### Construction proceeds,...



## Construction proceeds,...





#### Almost ready...



Built entirely by Wisconsin-based contractors

#### Dedication...



July 26, 2006

Hancock Agricultural Research Station

College of Agricultural and Life Sciences \* University of Wisconsin-Madison

#### First potatoes...





September 23, 2006

Hancock Agricultural Research Station

College of Agricultural and Life Sciences \* University of Wisconsin-Madison

#### New equipment...



Bin components...



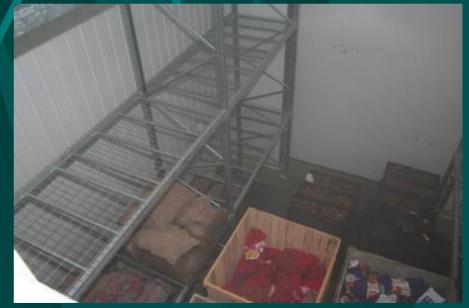
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#### Bin storage systems...



Bulk storage 18' piles 2200 cwt Palletized storage 2000# boxes



## Locker components...



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#### Locker storage systems...



Plastic crates 30#

Mini-storage systems 100# barrels



#### Locker storage systems...







#### Control systems...



http://www.btuvent.com/Btu\_West/DataSummary.aspx

#### Project budget...

\$2.9 million

Structure, research units, labs: \$2.2 million

Equipment: \$200,000.00

Maintenance Endowment: \$500,000.00

#### Facility governance...

WPVSRF Advisory Committee

Oversee facility management, advise facility manager, write facility policy, prioritize research conducted in facility

Growers, processors and packers, WPVGA, WPVGA Associate Division, UW researchers

#### Current research...

#### "Kicking the tires" in 2006

Learning the capabilities and the limitations of the structure, its systems and their controls

#### Work in progress in 2006

Pressure bruise studies
Dormancy studies
Processing studies
Pathology studies

## The Wisconsin Potato and Vegetable Storage Research Facility...



Built FOR the Wisconsin potato industry Built BY the Wisconsin potato industry