Patchwork Green Farm Eat Local & Eat Well Grown for Decorah

- Packing Shed and Vegetable Storage at Patchwork Green Farm
- Farm and marketing overview
- Packing shed walk-through in pictures
- Why good storage is essential
- Our walk-in cooler
- Our root cellar
- Facility considerations: Flow, traffic pattern, layout, access
- Costs
- Questions and Discussion

Patchwork Green Farm 22 years of farming organic vegetables for our Decorah community



MARKETS 2019-2020

- Decorah Farmers' Market
- Oneota Food Coop
- Restaurants and Caterers
- Food Hub



"AS A FARMER, YOU ARE A MANAGER OF RISK" PAUL ARNOLD OF PLEASANT VALLEY FARM, NY

TYPES OF RISK: FINANCIAL LABOR MANAGEMENT FOOD PREP (SAFETY) STORAGE

ACCESS AND SITING OF A NEW FACILITY

WATER & ELECTRICITY
PROXIMITY TO PRODUCTION AREA
FLOW FROM FIELD TO PREP AREA TO STORAGE TO MARKET



2015: THE NEW PACKING SHED

INDOOR SPACE:21' X 24'

COVERED OUTDOOR SPACE:11' X 24'

2 DOORS, 2 WINDOWS



FIRST UP: WASH YOUR HANDS!

- Water
- Soap
- Nail Brush
- Towels
- Waste Basket



STAINLESS STEEL SINKS

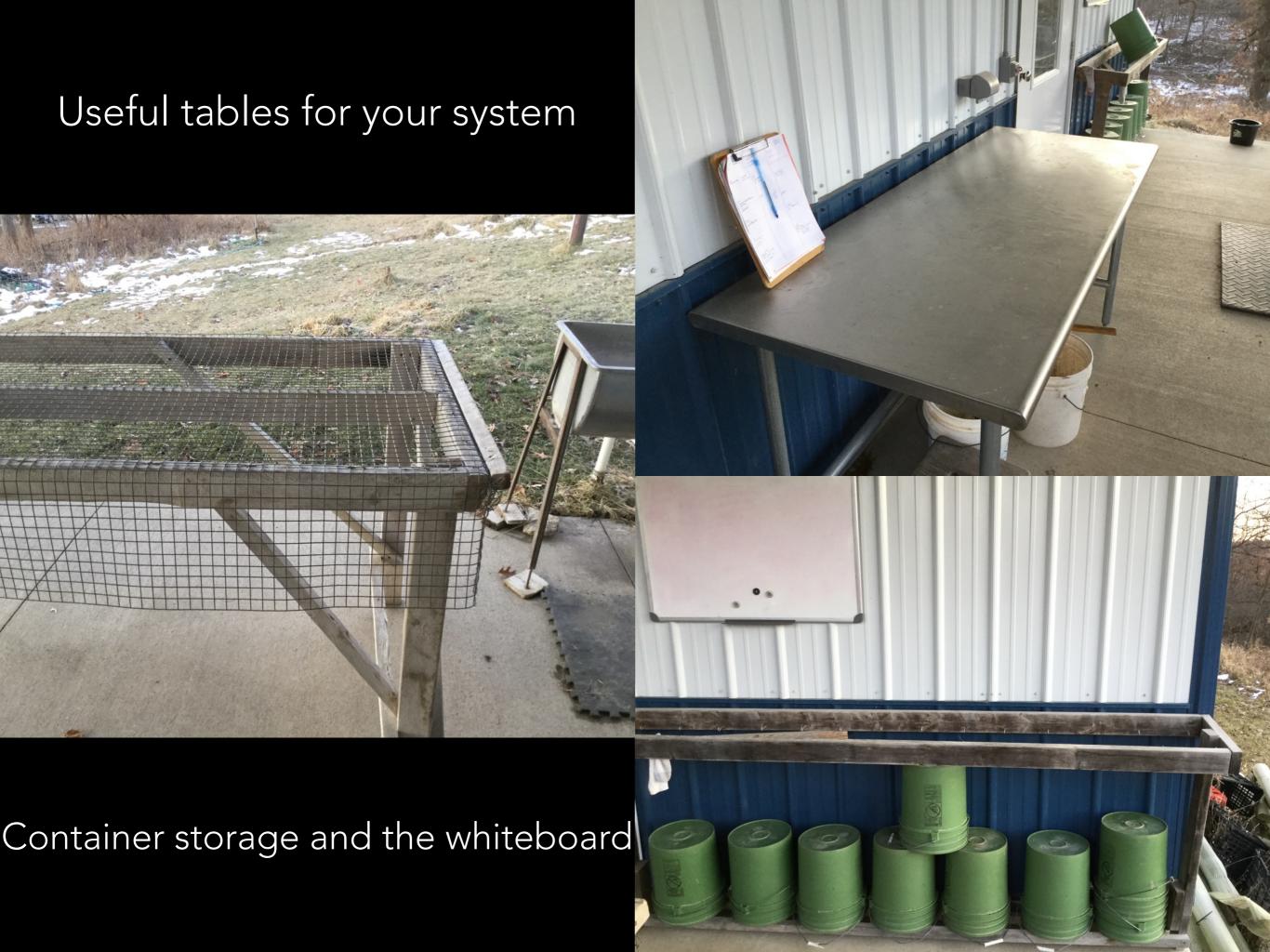
- Multiple basins
- Easy to clean
- Consider Drainage



OVERHEAD HOSE

- \$200 kit from Johnny's
- 50' hose, cable, hangers, pulleys
- One-handed and nohanded washing







LIGHTING & CEILING

- Pay for Quality LED Lights
- Consider shadows
- Screening for outdoor space (GAP)



INSIDE THE PACKING SHED

INSULATED & PEST-FREE
EASY TO WASH/CLEAN
TWO DOORS
STORAGE
WALK-IN COOLER
INDOOR WASH AREA
STABLE TEMPERATURE



INDOOR FLOOR DRAIN

WHERE DOES IT DRAIN?

SEDIMENT BUCKET OR TRENCH DRAIN?



WALK-IN COOLER

OVERSIZE COMPRESSOR: USED ARE FINE!

OUTDOOR CONDENSER

INSULATED, LEVEL FLOOR



MULTIPLE STORAGE OPTIONS

- Short-term vs. Long-term storage needs
- Temperature
- Humidity
- Ease of access

Root Cellar



16' X 11' interior space Insulated Concrete Walls (ICF) Electricity - fans, outlets, lights



EXTERIOR SLIDING DOOR: 6' 'AIRLOCK' 5' COOLER DOOR



The CoolBot





Large AC unit

\$400 CoolBot sensor

Easy to maintain temperatures in the 30's

FRESH AIR

TWO INTAKE PIPES

FAN IN ONE PIPE

AIR THROUGH COOLBOT

TEMP SENSOR ON FAN



EASY TO WASH SURFACES

*METAL SHEETING ON THE CEILING *DAIRY PANELS (TEXTURED POLYWALL) *SLOPED FLOOR



Humidity control







DESIGNING YOUR FACILITY

- Layout: plan for the next 20 years (flexibility of spaces)
- Traffic Patterns: current pathways/anticipated pathways
- Flow: clear, logical, ergonomic flow from field to delivery
- Access door location and count, handles, width
 - shortest distance to coolers/containers/water

COST

- Root Cellar: \$15,000
 - Includes construction, doors, electric
- Packing Shed: \$45,000
 - Includes water line, electric, concrete, construction, gutters, insulation

LESSONS LEARNED

- Door handles and stops
- Cool-bot insulation in the winter stop the draft.
- Plumbing do it right.
- Brushed concrete at root cellar entrance
- Electric is expensive!

