

Farm History

べ Trellis constructed and land prepared in 2010

Main yard planted with
 7 best performing
 varieties in 2011



Farm Statistics

2/3 acre planted (2011)
540 plantings
Additional 1/3 acre to be planted in 2012

≪ Vergennes Clay

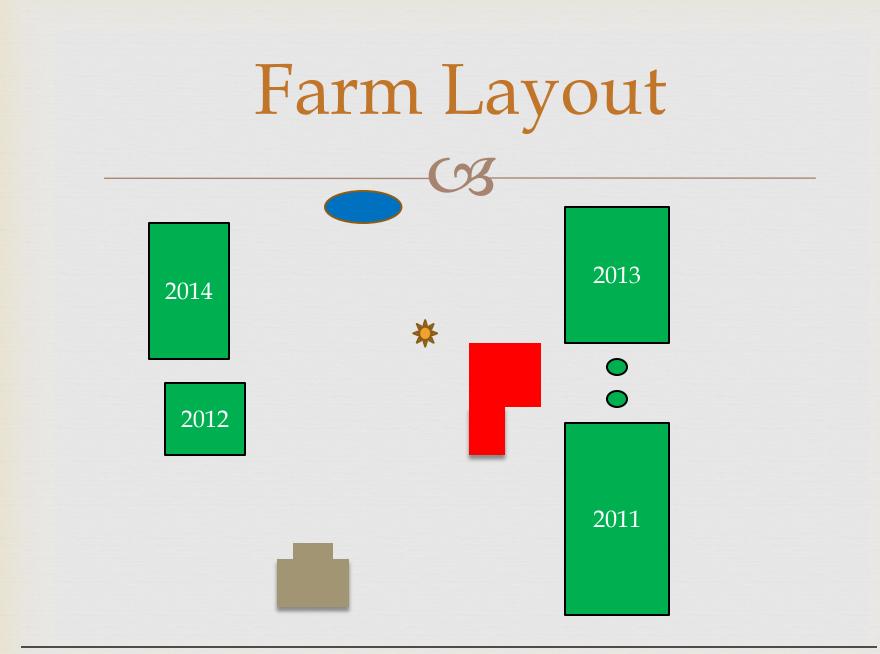
№ 14 foot cedar trellis with 11 rows



Farm Statistics

Varieties planted
Cascade
Columbus (CTZ)
Centennial
Magnum
Perle
Newport
Brewer's Gold





2011 Brewing Values

Hop Variety	Dry Weight	$\alpha - Acid$	<u>β – Acid</u>	<u>H.S.I.</u>
Cascade	4 lb 2 oz	5.60%	4.80%	0.2
Centennial	1 lb 12 oz	7.50%	3.90%	0.214
Columbus	Irene	14.80%	5.00%	0.223
Brewer's Gold	4 lb 4 oz	5.60%	4.80%	0.205

Perle, Newport, Magnum all less then 1 lb production and α and β below average range





Production Issues

Insects
Leafhoppers > Mites

Abiotic

- CS Rhizome failure due to wet soil
- Mutritional issues in isolated areas



Hopyard Construction Costs

Material	<u>Cost</u>	
Trellis		
Cedar Poles (108)	\$2,724	
Drainage Stone (13/4 ton)	\$257	
Cabling Supplies / Anchors	\$2,078	
Drip Irrigation System		
Drip Irrigation Tubing	\$1,558	
Water Pump	\$1,300	
Storage Tank (3000 gal)	\$2,000	
Land Preparation		
Landscape Fabric	\$889	
Compost (18 yards)	\$782	
Organic Rhizomes (558)	<u>\$2,155</u>	
	\$13,743	

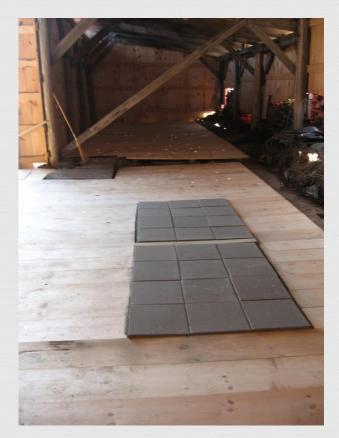


Hop Processing

Machine	<u>Cost</u>
5 hp Pellet Mill	\$2,995
3 hp Hammer Mill	\$1,700
Nitrogen-Flush Vacuum Sealer	<u>\$1,500</u>
	\$6,195

Not Included:

- Hop Harvester
- Oast Construction Supplies
- Baler
- Freezer
- Liquid Nitrogen Equipment



Annual Hop Growing Costs

Product	Cost
Fertilizer	
Peanut Meal (100 lbs)	\$49
Organic Compost (10 yards)	\$440
Hopyard Supplies	
Mulch (10 yards)	\$60
CoirTwine	\$144
Organic Pesticides	
Sonata	\$89
Regalia	\$198
PyGanic	\$183
Aza-Direct	\$42
Processing	
Mylar Bags (1000 bags)	\$99
Liquid Nitrogen	\$200/mo
Alpha Analytics (Hop Analysis)	\$280
Other	
Farm Insurance	\$790
NOFA Organic Certification	\$350
Ne HA Membership	\$40
Intuit Website Hosting	<u>\$120</u>
	\$2,884

> Fuel costs and electricity to run: Tractor, Oast, Drip Irrigation, Vacuum Sealer, Pellet Mill

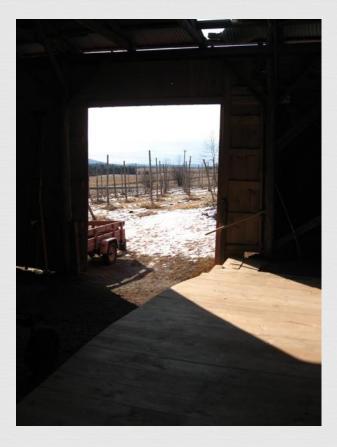


Breaking-Even

Break-even Point for Annual Hop Growing Costs

Price / Pound	Pounds Sold
\$8	360
\$10	288
\$15	192
\$20	144

National average price / pound: Web-based direct farm sales: \$10 - \$16 / lb Max: \$25 / lb Homebrew supply: \$32 - \$40 / lb Commodity price for hops (2011): \$3.11 / lb





Questions?