

BUCK FARMS

MAPLETON, MAINE

Est. 1958



Growing and Storage of Malting Barley

Malt Barley Specs*

• Protein	9.5-11%
• Test Weight	>50lbs/bu
• PHS	<5%
• Germination	>95%
• Plump	>90%
• Thins	<5%
• Foreign Material & Broken Kernels	<5%
• DON	<1ppm

*Maine Malt House desired specs

Starting with the Seed

- Seed
 - Type & Variety
 - 2 row vs 6 row
 - Winter/Spring
 - Generation
 - Treatment



*Great malt starts with great barley,
Great barley starts with high quality seed*

Planting Practices

- Soil Temperature
 - Min 40 F, Ideal 50+
- Seeding Rate
 - Calibrate your planter!
 - 1.25-1.3 million seeds/acre
- Seed Depth
- Fertility



Determining Seeding Rate

- Seed Count: Count and weigh 1000 kernels. Use the following formulas:

$$\frac{16\text{oz}}{\text{oz}/1000\text{kernels}} \times 1000 \text{ kernels} = \text{kernels/lb}$$

$$\frac{\left(\frac{\text{Desired stand}}{1 - \text{expected stand loss}} \right)}{\frac{\text{kernels}}{\text{lb}} \times \text{germ. rate}} = \text{Seeding Rate (lbs/acre)}$$

Desired Stand (2 row barley) = 1.25 mil/acre

Example: 12,000 kernels/lb @ 95% germ rate, 10% expected loss

$$\frac{\left(\frac{1,250,000 / \text{ac}}{1 - 10\%} \right)}{12,000 \times 95\%} = 122 \text{ lbs/ac}$$

Calibrating a Grain Drill

Don't rely on machine settings

***Grab an info packet from us
for complete instructions***

Calibrations for each product
will be different, be sure to do a
seed count and calibrate
separately for each grain



Growth and Applications

- At 6-8" – top dress (if applicable)
- Apply the fungicide application at flag leaf stage



Harvest Considerations

- Ripeness
- Pre-Harvest Sprouting
 - Critical to minimize for best quality
- Color
- Moisture
 - 12% is most ideal for longevity, but >13.5% works



Drying

- Continuous flow
- Batch
- Bin
 - Continuous & Batch



When drying malt barley:

-Keep grain temperature >110 degrees F

Storage

- Aeration Tanks are recommended
 - Push out heat after harvest
 - Freeze in winter
 - Seal off in spring!



Questions?

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