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LIABILITY STATEMENT
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BEST HARVEST

CROP MOISTURE TESTER
MODEL NO: BHT6071

PATENT PENDING

USER INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE OPERATING

BHT6071, Rev. B
April 2010

Best Harvest Inc

Moisture Tester 6071
User Instructions

Instructions

The *Best Harvest Moisture Tester BHT6071* consists of an evaporation unit, specimen container, digital scale and measuring bowl. It is used to accurately measure moisture content within a wide variety of materials, including hay, silage, grains, beans, corn, rice, seeds, nuts, wood chips, etc.

Contents*

1. Evaporation unit with on/off switch
2. Stainless steel specimen container
3. Digital scale accurate to 0.1g (batteries included)
4. Measuring bowl

* Pictured items may vary slightly from contents

Safety Precautions

This unit produces heat temperatures which may exceed 300 degrees, please keep away from children and follow these basic safety instructions to avoid the risk of fire, electric shock and other injuries:

1. Never operate the unit near flammable or combustible materials.
2. The units components can get very hot during operation. To avoid injury, do not touch the enclosure until it has been turned off for at least 5 minutes.
3. Always unplug the unit when not in use.
4. Do not use the unit if any component has been damaged.
5. The unit has a 110 volt current, do not operate in damp or wet locations.
6. Do not use where gasoline, paint or flammable liquids or gases are present.
7. Be sure the ventilation at the bottom of the unit is clear of obstructions.
8. Avoid use of extension cords which may overheat and cause fire or shock.
9. Do not submerse in water or any other liquid.
10. Do not test or dry materials that are visibly dripping wet.
11. Use only small amounts of test materials so as not to block ventilation.

How to Care for Your Moisture Tester

1. Turn off and unplug from power supply before cleaning
2. Use a clean, soft and damp cloth to gently clean all surfaces
3. Do not submerse in water or any other liquid
4. Do not spray cleaning liquid or other chemicals on the tester
5. Be sure the vents on the bottom of the unit is free of dust and other elements
6. Cleaning with compressed air from the top-down is recommended
7. Store in a safe place free of dust, straw, hay, cobwebs and flammable items.

Moisture Test Recordings

Date	Sample Material	Lot Description	Testing Time	Moisture Content %

MOISTURE TEST RECORDINGS

Date	Sample Material	Lot Description	Testing Time	Moisture Content %

OPERATING INSTRUCTIONS

1. Place scale on a flat, level surface. The scale is a delicate and sensitive device and should be treated with care.
2. Place empty measuring bowl on center of scale platform.
3. Turn the scale on.
4. Gently place and measure 100g of material into measuring bowl. For Hay and porous materials use 10g to allow for ventilation during drying process.
5. Carefully move material from measuring bowl to specimen container and spread material evenly.
6. Place specimen container upon evaporation unit.
7. Plug in cord of evaporation unit into 110 volt AC current. Turn on unit. (220V converter available for International AC outlets)
8. It may take several minutes for the unit to reach maximum temperature.
9. Dry sample for 30 minutes or established drying time. Then place the sample into the measuring bowl and record the new weight.
10. Return the sample to the specimen container and dry for another 10 minutes. Place the sample into the measuring bowl and record the second reading measurement. **Repeat** this step until no change in measurement.
11. The **CHANGE IN WEIGHT REPRESENTS THE MOISTURE CONTENT**. The final material weight represents the dry matter. For example:

Beginning Weight	= 100.0g	10.0g
End Weight	= 87.4g	8.7g
Moisture Content	= 12.6%	13%

12. Add all the time intervals together to establish the typical drying time for the material being measured.

The Best Harvest Moisture Tester determines moisture by using a faster version of the Oven Drying Method as recommended by the USDA for crops. The typical time for testing some of the most popular crops is as follows:

Crop	Typical Drying Time (minutes)	Typical Moisture Content for Safe Storage*
Corn	80	15% or less
Corn (ensilage)	30	60 to 65%
Wheat/Barley	30	15% or less
Hay (10 grams)	25	25% or less
Silage/Haylage (10g or 100g)	25	40 to 60%
Oats, Rye	20	15% or less
Rice	80	14% or less
Peanuts (shelled)	60	10% or less
Wood Chips	120 (varies)	varies

* Extended storage times may require lower moisture levels, please consult your local agricultural agent for your specific crop.

Many factors including temperature, humidity and variety of crop affect the time required to evaporate moisture and consequently the time required to make a moisture test. We recommend that you establish the drying times for the particular crops you harvest within your area. It is fine to go beyond these times as there is no risk of 'over-drying'.

MOISTURE TEST RECORDINGS

Date	Sample Material	Lot Description	Testing Time	Moisture Content %

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Date	Sample Material	Lot Description	Testing Time	Moisture Content %