

Grain Grading Problems & Worksheet

2010 Purdue Invitational Contest

<p><u>Sample #1</u></p> <p>Yellow dent corn Moisture 13.2% Stalks on top of sieve 1.1% Test Weight (lb/bu) 56.0 Heat damage popcorn 0.6% 2 live weevils 1.4% Natural odor</p>	<p>Test wt. _____ Heat Damage _____</p> <p>Moisture _____ BCFM/FM _____</p> <p>DKT _____ Split/Defect _____</p> <p>Odor _____ Shru & Brkn _____</p> <p style="text-align: center;">_____</p>
<p><u>Sample #2</u></p> <p>White dent corn Moisture 14.0% Test Weight (lb/bu) 56.0% Material through 12/64" sieve 2.9% Damaged by heat corn 1.04% 12 cockleburrs Broken pieces of corn too large to pass through 5.09% 12/64" sieve holes Natural odor</p>	<p>Test wt. _____ Heat Damage _____</p> <p>Moisture _____ BCFM/FM _____</p> <p>DKT _____ Split/Defect _____</p> <p>Odor _____ Shru & Brkn _____</p> <p style="text-align: center;">_____</p>
<p><u>Sample #3</u></p> <p>Yellow dent corn White dent corn 5.0% Moisture 14.1% Test Weight (lb/bu) 52.5 Material through 12/64" sieve 4.16% 3 green garlic bulbs Sprout damaged soybean 1.2% Natural odor</p>	<p>Test wt. _____ Heat Damage _____</p> <p>Moisture _____ BCFM/FM _____</p> <p>DKT _____ Split/Defect _____</p> <p>Odor _____ Shru & Brkn _____</p> <p style="text-align: center;">_____</p>
<p><u>Sample #4</u></p> <p>Yellow sweetcorn 4.00% Yellow dent corn 96.00% Moisture 11.97% Test Weight (lb/bu) 56.4 Material through 12/64" sieve 2.03% Blue eye mold 2.10% Smoke odor</p>	<p>Test wt. _____ Heat Damage _____</p> <p>Moisture _____ BCFM/FM _____</p> <p>DKT _____ Split/Defect _____</p> <p>Odor _____ Shru & Brkn _____</p> <p style="text-align: center;">_____</p>

Over →

<u>Sample #5</u>		Test wt. _____	Heat Damage _____
Yellow soybean		Moisture _____	BCFM/FM _____
Bi-color soybean	11.43%	DKT _____	Split/Defect _____
Material through 8/64" sieve	3.22%	Odor _____	Shru & Brkn _____
Moisture	13.70%		
Test Weight (lb/bu)	56.00		
Splits	11.46%		
Damaged by heat soybeans	2.7%		
Frost damaged soybeans	1.54%		
Natural Odor			
<u>Sample #6</u>		Test wt. _____	Heat Damage _____
Black soybeans		Moisture _____	BCFM/FM _____
Material through 8/64" sieve	1.73%	DKT _____	Split/Defect _____
Corn found on top of 8/64" sieve	1.2%	Odor _____	Shru & Brkn _____
Giant ragweed seed	0.99%		
Test weight (lb/bu)	54.04		
Moisture	12.20%		
Pieces of soybean (<3/4 seed)	27.00%		
Natural odor			
<u>Sample #7</u>		Test wt. _____	Heat Damage _____
Soft red winter wheat		Moisture _____	BCFM/FM _____
Dockage (grams per 1000 grams)	57.81	DKT _____	Split/Defect _____
Moisture	13.24%	Odor _____	Shru & Brkn _____
Test weight (lb/bu)	60.00		
Sprouted wheat	0.93%		
Shrunken & broken kernels	5.5%		
Ground damaged wheat	1.6%		
Germ damaged wheat	0.34%		
Heat damaged soybeans	1.95%		
Natural odor			
<u>Sample #8</u>		Test wt. _____	Heat Damage _____
Soft red winter wheat		Moisture _____	BCFM/FM _____
Hard red winter wheat	3.5%	DKT _____	Split/Defect _____
Dockage (grams per 1000 grams)	54.60	Odor _____	Shru & Brkn _____
Moisture	13.60%		
Test weight (lb/bu)	61.00		
Oats	0.3%		
Shrunken & broken kernels	3.12%		
Insect damaged barley	1.1%		
Natural odor			