

## Grain Grading Problems & Worksheet

### Southmont High School Invitational 2010

<p><b><u>Sample #1</u></b></p> <p>White dent corn            Moisture 13.4%            Test Weight (lb/bu) 56.0            Heat damage 0.17%            frost damaged corn 1.5%            Pieces of stalk found on top of sieve 0.3%            Material passing through 12/64" sieve 1.2%            Natural odor</p>	<p>Test wt. _____ Heat Damage _____</p> <p>Moisture _____ BCFM/FM _____</p> <p>DKT _____ Split/Defect _____</p> <p>Odor _____ Shru &amp; Brkn _____</p> <p style="text-align: center;">_____</p>
<p><b><u>Sample #2</u></b></p> <p>Yellow dent corn            Moisture 13.04%            Test Weight (lb/bu) 56.0%            Material through 12/64" sieve 0.54%            Damaged by heat corn 2.04%            1 stone 0.02%            Plywood Scraps            Natural odor</p>	<p>Test wt. _____ Heat Damage _____</p> <p>Moisture _____ BCFM/FM _____</p> <p>DKT _____ Split/Defect _____</p> <p>Odor _____ Shru &amp; Brkn _____</p> <p style="text-align: center;">_____</p>
<p><b><u>Sample #3</u></b></p> <p>Yellow dent corn            White dent corn 15.00%            Yellow popcorn 2.1%            Moisture 12.70%            Test Weight (lb/bu) 56.00            Soybeans 2.48%            Insect damaged corn 1.1%            Natural odor</p>	<p>Test wt. _____ Heat Damage _____</p> <p>Moisture _____ BCFM/FM _____</p> <p>DKT _____ Split/Defect _____</p> <p>Odor _____ Shru &amp; Brkn _____</p> <p style="text-align: center;">_____</p>
<p><b><u>Sample #4</u></b></p> <p>Yellow flint corn 25.00%            Yellow dent corn 75.00%            Moisture 12.97%            Test Weight (lb/bu) 55.99            Material through 12/64" sieve 1.03%            White kernels with purple colored plumule 0.81%            Natural odor</p>	<p>Test wt. _____ Heat Damage _____</p> <p>Moisture _____ BCFM/FM _____</p> <p>DKT _____ Split/Defect _____</p> <p>Odor _____ Shru &amp; Brkn _____</p> <p style="text-align: center;">_____</p> <p style="text-align: right;">Over →</p>

<b><u>Sample #5</u></b>		Test wt. _____	Heat Damage _____
Yellow soybean		Moisture _____	BCFM/FM _____
Material through 8/64" sieve	1.1%	DKT _____	Split/Defect _____
Sticks found on top of sieve	1.44%	Odor _____	Shru & Brkn _____
Moisture	12.70%	_____	_____
Test Weight (lb/bu)	56.00		
Splits	23.24%		
Mold damaged soybeans	2.5%		
Natural Odor			
<b><u>Sample #6</u></b>		Test wt. _____	Heat Damage _____
Yellow soybeans		Moisture _____	BCFM/FM _____
Sting bug damaged soybeans	2.4%	DKT _____	Split/Defect _____
Heat damaged wheat	1.1%	Odor _____	Shru & Brkn _____
Test weight (lb/bu)	56.00	_____	_____
Moisture	13.50%		
Pieces of soybean (<3/4 seed)	10.62%		
12 live insects			
Natural odor			
<b><u>Sample #7</u></b>		Test wt. _____	Heat Damage _____
Soft red winter wheat		Moisture _____	BCFM/FM _____
Hard red winter wheat	1.6%	DKT _____	Split/Defect _____
Dockage (grams per 1000 grams)	33.71	Odor _____	Shru & Brkn _____
Moisture	12.26%	_____	_____
Test weight (lb/bu)	60.00		
Barley	0.75%		
Molded wheat	0.40%		
Shrunken and broken kernels	2.17%		
28 insect damaged kernels per 100 grams	0.4%		
Natural odor			
<b><u>Sample #8</u></b>		Test wt. _____	Heat Damage _____
Soft red winter wheat		Moisture _____	BCFM/FM _____
Polish wheat	2.45%	DKT _____	Split/Defect _____
Dockage (grams per 1000 grams)	54.33	Odor _____	Shru & Brkn _____
Moisture	12.23%	_____	_____
Test weight (lb/bu)	60.00		
Barley	0.71%		
Shrunken & broken kernels	3.19%		
Smutty odor			