

Grain Grading Problems & Worksheet

State Contest 2009

<u>Sample #1</u>		Test wt. _____ Heat Damage _____
Yellow Dent Corn	100.0%	Moisture _____ BCFM/FM _____
Moisture	12.4%	DKT _____ Split/Defect _____
Broken Corn through sieve	2.9%	Odor _____ Shru & Brkn _____
Insect damaged corn	0.3%	_____
Heat damaged corn (severe)	0.16%	_____
Test weight (lb/bu)	56.0	_____
Natural Odor		_____
<u>Sample #2</u>		Test wt. _____ Heat Damage _____
White Flint Corn	93.0%	Moisture _____ BCFM/FM _____
White Dent Corn	7.0%	DKT _____ Split/Defect _____
Moisture	14.1%	Odor _____ Shru & Brkn _____
Heat Damaged Corn (slightly discolored)	4.1%	_____
Heat Damaged Rye (severe)	1.2%	_____
Corn stalks on top of sieve	2.0%	_____
Test weight (lb/bu)	55.0	_____
Natural Odor		_____
<u>Sample #3</u>		Test wt. _____ Heat Damage _____
White corn	100.0%	Moisture _____ BCFM/FM _____
Moisture	13.6%	DKT _____ Split/Defect _____
Sprouted corn	1.36%	Odor _____ Shru & Brkn _____
Sprouted sweet corn	2.0%	_____
Foreign material through the sieve	0.2%	_____
Test weight (lb/bu)	56.0	_____
Smoke Odor		_____
<u>Sample #4</u>		Test wt. _____ Heat Damage _____
Yellow Dent Corn	4.0%	Moisture _____ BCFM/FM _____
Waxy White Dent Corn	96.0%	DKT _____ Split/Defect _____
Moisture	16.0%	Odor _____ Shru & Brkn _____
Heat Damaged Corn	1.6%	_____
Broken corn through the sieve	3.3%	_____
Test weight (lb/bu)	55.0	_____
Natural Odor		_____
		Over →

Sample #5		Test wt. _____	Heat Damage _____
Yellow Soybeans	95.2%	Moisture _____	BCFM/FM _____
Bi-colored Soybeans	4.8%	DKT _____	Split/Defect _____
Moisture	12.0%	Odor _____	Shru & Brkn _____
Splits	12.2%	_____	_____
Sprout damaged soybeans	2.4%		
Head damaged soybeans	0.3%		
Fine foreign material	1.2%		
Test weight (lb/bu)	54.0		
Natural Odor			
Sample #6		Test wt. _____	Heat Damage _____
Yellow Soybeans	88.0%	Moisture _____	BCFM/FM _____
Black Soybeans	12.0%	DKT _____	Split/Defect _____
Moisture	15.0%	Odor _____	Shru & Brkn _____
Heat damaged soybeans (severe)	0.67%	_____	_____
Stink bug damaged soybeans	5.4%		
Dry garlic bulbs	10		
Test Weight (lb/bu)	56.0		
Natural Odor			
Sample #7		Test wt. _____	Heat Damage _____
Soft Red Winter Wheat	43.91	Moisture _____	BCFM/FM _____
Durum Wheat	2.1%	DKT _____	Split/Defect _____
Moisture	13.24%	Odor _____	Shru & Brkn _____
Heat damaged oats	0.45%	_____	_____
Sprout damaged rye	0.20%		
Shrunken and broken kernels	3.17%		
Test weight (lb/bu)	60.0		
Dockage (g/1000g)	43.0		
5 green garlic bulbs			
Garlicky Odor			
Sample #8		Test wt. _____	Heat Damage _____
Soft red winter wheat	96.0%	Moisture _____	BCFM/FM _____
Durum wheat	4.0%	DKT _____	Split/Defect _____
Moldy soft red winter wheat	1.2%	Odor _____	Shru & Brkn _____
Cinders	3	_____	_____
Test weight (lb/bu)	60.0		
Moisture	10.4%		
Dockage (g/1000g)	27.4		
Shrunken and broken kernels	12.2%		
Particles of unknown foreign substance	2		
Natural Odor			
Wheat has been limed			