

## Grain Grading Problems & Worksheet

### 2010 State Contest

<p><b><u>Sample #1</u></b></p> <p>Yellow dent corn 100.0%            Moisture 14.1%            Sweet corn 1.3%            Test Weight (lb/bu) 56.0            Heat damage 0.8%            Oats 1.1%            Giant ragweed seed 1.4%            Natural odor</p>	<p>Test wt. _____ Heat Damage _____            Moisture _____ BCFM/FM _____            DKT _____ Split/Defect _____            Odor _____ Shru &amp; Brkn _____            _____</p>
<p><b><u>Sample #2</u></b></p> <p>Yellow dent corn 10.0%            Yellow waxy corn 90.0%            Moisture 13.5%            Test Weight (lb/bu) 54.0            Material through 12/64" sieve 2.1%            6 insects injurious to stored grain            Natural odor</p>	<p>Test wt. _____ Heat Damage _____            Moisture _____ BCFM/FM _____            DKT _____ Split/Defect _____            Odor _____ Shru &amp; Brkn _____            _____</p>
<p><b><u>Sample #3</u></b></p> <p>Yellow dent corn 93.0%            White dent corn 7.0%            Moisture 13.7%            Test Weight (lb/bu) 55.99            Material through 12/64" sieve 2.18%            Sprout damaged sweetcorn 1.2%            Blue-eye mold 3.4%            1 stone 0.06%            Natural odor</p>	<p>Test wt. _____ Heat Damage _____            Moisture _____ BCFM/FM _____            DKT _____ Split/Defect _____            Odor _____ Shru &amp; Brkn _____            _____</p>
<p><b><u>Sample #4</u></b></p> <p>Yellow flint corn 96.00%            Yellow dent corn 4.0%            Moisture 12.97%            Test Weight (lb/bu) 56.4            Slight heat damage corn 1.42%            Sprout damage flint corn 2.43%            Garlicky odor</p>	<p>Test wt. _____ Heat Damage _____            Moisture _____ BCFM/FM _____            DKT _____ Split/Defect _____            Odor _____ Shru &amp; Brkn _____            _____</p>

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<p><b><u>Sample #5</u></b></p> <p>Yellow soybeans 100.0%  Moisture 13.20%  Test Weight (lb/bu) 56.0  Splits 15.46%  Heat damaged splits 1.0%  Heat damaged soybeans 0.3%  General appearance of beans is 2% discolored by dirt  Natural Odor</p>	<p>Test wt. _____ Heat Damage _____  Moisture _____ BCFM/FM _____  DKT _____ Split/Defect _____  Odor _____ Shru &amp; Brkn _____  _____</p>
<p><b><u>Sample #6</u></b></p> <p>Yellow soybeans 95.0%  Black soybeans 5.0%  Test weight (lb/bu) 55.64  Moisture 13.20%  2 stones  Pieces of soybean (&lt;3/4 seed) 17.00%  3 pieces of unknown foreign substance  Sprout damage 1.3%  6 Rodent pellets  Natural odor</p>	<p>Test wt. _____ Heat Damage _____  Moisture _____ BCFM/FM _____  DKT _____ Split/Defect _____  Odor _____ Shru &amp; Brkn _____  _____</p>
<p><b><u>Sample #7</u></b></p> <p>Soft red winter wheat  Durum wheat 6.3%  Dockage (grams per 1000 grams) 54.91  Moisture 12.12%  Test weight (lb/bu) 59.00  Molded wheat 1.2%  Shrunken &amp; broken kernels 6.7%  Ground damaged oats 0.3%  Germ damaged rye 0.42%  Natural odor</p>	<p>Test wt. _____ Heat Damage _____  Moisture _____ BCFM/FM _____  DKT _____ Split/Defect _____  Odor _____ Shru &amp; Brkn _____  _____</p>
<p><b><u>Sample #8</u></b></p> <p>Soft red winter wheat  Hard red winter wheat 1.2%  Dockage (grams per 1000 grams) 52.10  Moisture 12.70%  Test weight (lb/bu) 60.00  Shrunken &amp; broken kernels 3.12%  3 Stones 0.2%  Ergoty wheat 0.07%  Natural odor</p>	<p>Test wt. _____ Heat Damage _____  Moisture _____ BCFM/FM _____  DKT _____ Split/Defect _____  Odor _____ Shru &amp; Brkn _____  _____</p>