

Grain Grading Problems & Worksheet
2017 State Contest

<p><u>Sample #1</u> Yellow Corn Yellow Corn more than 50% red streaked 5.6% Test Weight (lb/bu) 58.3 Moisture 13.88% Material Thru 12/64" Sieve 3.51% Decaying animal odor Yellow Flint Corn 3.2% Heat Damaged Soybeans 3.9% One Live Weevil 5 Injurious Insects Live Insect Damage 5.23%</p>	Test wt _____ Heat damage _____ Moisture _____ BCFM/FM _____ DKT _____ Split/Defect _____ Odor _____ Shru & Brkn _____ _____
<p><u>Sample #2</u> Yellow Corn White Corn 99.0% Moisture 12.76% Test Weight (lb/bu) 49 Heat Damage 1.0% Damaged by Heat Corn 1.34% Mold Damage 2.33% 1 Castor Bean Natural Odor</p>	Test wt _____ Heat damage _____ Moisture _____ BCFM/FM _____ DKT _____ Split/Defect _____ Odor _____ Shru & Brkn _____ _____
<p><u>Sample #3</u> White Corn Blue Corn 2.91% Test Weight (lb/bu) 50.7 Moisture 12% Germ Damaged Wheat 2.4% Material Thru 12/64" Sieve 0.9% Waxy Dent Corn 10.8% 2 Live Weevils Garlicky Odor</p>	Test wt _____ Heat damage _____ Moisture _____ BCFM/FM _____ DKT _____ Split/Defect _____ Odor _____ Shru & Brkn _____ _____
<p><u>Sample #4</u> Yellow Corn Moisture 14.43% Test Weight (lb/bu) 56.61 Material Thru 12/64" Sieve 4.3% Sprout Damage 5.35% Pieces of Concrete too large to pass through Sieve 4 Unknown Substances Heat Damage 1.2% Corn Cobs 3.24% Natural Odor</p>	Test wt _____ Heat damage _____ Moisture _____ BCFM/FM _____ DKT _____ Split/Defect _____ Odor _____ Shru & Brkn _____ _____

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<p><u>Sample #5</u></p> <p>Yellow Soybeans Moisture 17% Test Weight (lb/bu) 60.9 Frost Damaged Splits 3.2% Black Soybeans 3.24% Sprout Damaged Soybeans 1.2% 8 Dry Garlic Bulbs Stalks 2.4%</p>	<p>Test wt _____ Heat damage _____</p> <p>Moisture _____ BCFM/FM _____</p> <p>DKT _____ Split/Defect _____</p> <p>Odor _____ Shru & Brkn _____</p> <p>_____</p>
<p><u>Sample #6</u></p> <p>Brown Soybeans 9.76% Bi-Colored Soybeans Test weight (lb/bu) 56.8 Moisture 16.5% Material Thru 12/64" Sieve Splits 1.23% Heat Damaged Splits 20.5% 2 Crotalaria Seeds 1.11% 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>_____</p>
<p><u>Sample #7</u></p> <p>Soft Red Winter Wheat White Wheat Sound 4.37% Test weight (lb/bu) 61.21% Dockage (1000 grams) 25.6g Moisture 14.3% Durum Wheat 1.43% Shrunken and Broken Kernels 3.812% Sprout Damaged White Wheat 0.39% 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>_____</p>
<p><u>Sample #8</u></p> <p>Soft Red Winter Wheat Dockage (1000 grams) 60.3g Moisture 14.22% Test weight (lb/bu) 60.3 Heat Damaged Rye 0.94% Shrunken and Broken Kernels 3.27% Material Thru 12/64" Sieve For. Mat. 3% 33 Smut Balls Smutty Odor</p>	<p>Test wt _____ Heat damage _____</p> <p>Moisture _____ BCFM/FM _____</p> <p>DKT _____ Split/Defect _____</p> <p>Odor _____ Shru & Brkn _____</p> <p>_____</p>