

Grain Grading Problems & Worksheet
2016 State Contest

<p><u>Sample #1</u></p> <p>Yellow Corn 95.0% White Flint Corn 5.0% Test Weight (lb/bu) 61.0 Moisture 14.8% Material Thru 12/64" Sieve 2.015% One Live Weevil 5 Dead Injurious Insects Insect Damage 3.1% Garlicky 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 #2</u></p> <p>Yellow Waxy Corn Moisture 13.87% Test Weight (lb/bu) 58.02 Material Thru 12/64" Sieve 0.98% Slight Damage By Heat 2.12% 3 Castor Beans Soybeans 3.01% Insect Holes (Damaged) 1.98% 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 #3</u></p> <p>Yellow Corn 93.0% Yellow Corn with kernels that are greater than 50% Streaked by Red 7.0% Blue Corn 2.0% Test Weight (lb/bu) 56.39 Moisture 14.41% Broken Corn Thru Sieve 1.73% 7 Cockleburs Badly Weather-Damaged Corn 2.77% Strong Weed 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 #4</u></p> <p>White Corn Moisture 13.52% Test Weight (lb/bu) 58.01 Material Thru 12/64" Sieve 1.1% Cobs On Top Of the Sieve 1.62% Heat Damaged Corn 0.33% Mold Damage 3.7% Insect Chewed Corn 2.25% Three Live Weevils 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>

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<p><u>Sample #5</u></p> <p>Yellow Soybeans Moisture 14.33% Test Weight (lb/bu) 55.89 Material through 12/64" Sieve 2.1% Black Soybeans 3.75% Sprout Damaged Wheat 4.0% Immature Soybeans 1.05% Heat Damaged Splits 0.26% 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 #6</u></p> <p>Yellow Soybeans Brown Soybeans 10.9% Test weight (lb/bu) 56.12 Moisture 13.21% Material Thru 12/64" Sieve Splits 0.3% 10.46% 2 Green Garlic Bulbs Heat Damage 0.08% Stink Bug Stung Kernels 4.1% Garlicky 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 Test weight (lb/bu) 62.0 Dockage (1000 grams) 56.6 Moisture 14.3% Shrunken and Broken Kernels 3.35% Material Thru 12/64" Sieve 0.1% Durum Wheat 4.4% Spelt 1.33% Heat Damaged Wheat 0.5% 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>
<p><u>Sample #8</u></p> <p>Soft Red Winter Wheat Dockage (1000 grams) 23.58 Moisture 13.01% Test weight (lb/bu) 60.0 Material Thru 12/64" Sieve 0.58% Sprout Damaged Einkorn 1.1% Ergot 0.06% 2 Injurious Insects Insect Chewed Soybeans 1.5%</p>	<p>Test wt _____ Heat damage _____</p> <p>Moisture _____ BCFM/FM _____</p> <p>DKT _____ Split/Defect _____</p> <p>Odor _____ Shru & Brkn _____</p> <p>_____</p>