

Grain Grading Problems & Worksheet
2021 State Contest

<p><u>Sample #1</u></p> <p>Yellow Corn less than 50% red streaked White Corn 98.0% Test Weight(lb/bu) 53.5 Moisture 13.89% Material thru 12/64 sieve 1.6% Slightly discolored by heat 1.4% Heat Damaged Sweet Corn 1.1% Badly Weather-Damaged Corn 1.67% Animal Hide 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 Flint Corn Moisture 12.28% Test Weight (lb/bu) 54.0 Material thru 12/64 sieve 4.3% 2 Unknown Substances Cobs On Top Of the Sieve 1.26% One Live Weevil Mold Damage 2.3% 3 Live Injurious Insects Insect Damage 2.6% 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>White Corn Yellow Corn 22.0% Test Weight (lb/bu) 52.0 Moisture 12.6% Material thru 12/64 sieve 1.2% Heat damage 0.5% Sprout Damage 0.98% 2 Cockleburs 1 Castor Bean 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 #4</u></p> <p>White Corn Blue Corn 3.0% Moisture 14.1% Test Weight (lb/bu) 56.00 Material thru 12/64 sieve 1.2% Corn Stalks on Top of the Sieve 1.5% Insect damaged 2.2% Frost damaged 3.3% 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>

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<p><u>Sample #5</u></p> <p>Yellow Soybeans Black Soybeans 5.7% Moisture 13.5% Test Weight (lb/bu) 56 Material thru 12/64 sieve 2.3% Green damage 1.8% Pieces of soybean (<3/4 seed) 15.54% Sprout Damaged Splits 1.77% Insect Holes (Damaged) 1.8% 2 Green Garlic Bulbs Natural Odor</p>	<p>Test wt _____ Heat damage _____ Moisture _____ BCFM/FM _____ DKT _____ Split/Defect _____ Odor _____ Shru & Brkn _____ _____</p>
<p><u>Sample #6</u></p> <p>Brown Soybeans Test weight (lb/bu) 56.00 Moisture 14.50% Frost Damaged 2.2% Popcorn 1.2% Splits 11.00% Pink molded soybeans 2.0% Green damage 1.3% Natural odor</p>	<p>Test wt _____ Heat damage _____ Moisture _____ BCFM/FM _____ DKT _____ Split/Defect _____ Odor _____ Shru & Brkn _____ _____</p>
<p><u>Sample #7</u></p> <p>Soft Red Winter Wheat Dockage (1000 grams) 55.80 Moisture 14.44% Test weight (lb/bu) 60.0 Shrunken & broken kernels 2.5% 7 Smut balls Heat damaged einkorn 0.12% Durum Wheat 2.34% Smutty Odor</p>	<p>Test wt _____ Heat damage _____ Moisture _____ BCFM/FM _____ DKT _____ Split/Defect _____ Odor _____ Shru & Brkn _____ woc _____ soc _____</p>
<p><u>Sample #8</u></p> <p>Soft Red Winter Wheat Dockage (1000 grams) 25.9 Moisture 14.44% Test weight (lb/bu) 54.0 Shrunken & broken kernels 3.27% White wheat 5.05% Material Thru 12/64" Sieve 0.7% 1 Rodent Pellet Sprout Damage 1.02% Natural odor</p>	<p>Test wt _____ Heat damage _____ Moisture _____ BCFM/FM _____ DKT _____ Split/Defect _____ Odor _____ Shru & Brkn _____ woc _____</p>