

Grain Grading Problems & Worksheet

Southmont High School Invitational

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| <p><u>Sample #1</u></p> <p>Yellow dent corn Moisture 13.2% Material passing through 12/64" sieve 2.1% Test Weight (lb/bu) 56.0 Heat damage 0.29% Sprout damaged soybean 0.6% Pieces of cob found on top of sieve 0.9% 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 #2</u></p> <p>Yellow dent corn Moisture 14.01% Test Weight (lb/bu) 56.47% Material through 12/64" sieve 1.54 Damaged by heat corn 3.04% 7 cockleburs Kernels with purple colored plumule 2.5% Broken pieces of corn too large to pass through 12/64" sieve holes 3.09% 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 dent corn White dent corn 4.00% Moisture 13.70% Test Weight (lb/bu) 55.00 Material through 12/64" sieve 4.48% 1 weevil 2 live granary weevils Piece of concrete 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 dent corn 9.00% Yellow dent corn 89.00% Yellow popcorn 1.00% Moisture 12.97% Test Weight (lb/bu) 55.99 Material through 12/64" sieve 1.03% White kernels with purple colored plumule 0.81% Sprout damaged corn 0.70% Insect damaged corn 0.60% 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 style="text-align: right;">Over →</p> |

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|---|--------|----------------|--------------------|
| Sample #5 | | Test wt. _____ | Heat Damage _____ |
| Yellow soybean | | Moisture _____ | BCFM/FM _____ |
| Bi-color soybean | 1.01% | DKT _____ | Split/Defect _____ |
| Material through 8/64" sieve | 1.22% | Odor _____ | Shru & Brkn _____ |
| Yellow dent corn picked off from top of sieve | 1.44% | _____ | _____ |
| Moisture | 13.70% | | |
| Test Weight (lb/bu) | 59.00 | | |
| Splits | 19.24% | | |
| Damaged by heat split soybean | 0.84% | | |
| Sprout damaged barley | 0.56% | | |
| Natural Odor | | | |
| Sample #6 | | Test wt. _____ | Heat Damage _____ |
| Black soybean | | Moisture _____ | BCFM/FM _____ |
| Material through 8/64" sieve | 1.84% | DKT _____ | Split/Defect _____ |
| Corn found on top of 8/64" sieve | 0.69% | Odor _____ | Shru & Brkn _____ |
| Stalk material found on top of the 8/64" sieve | 0.26% | _____ | _____ |
| Test weight (lb/bu) | 56.00 | | |
| Moisture | 13.20% | | |
| Pieces of soybean (<3/4 seed) | 20.62% | | |
| Sample discolored by dirt-like substance (125g) | 3.0% | | |
| Natural odor | | | |
| Sample #7 | | Test wt. _____ | Heat Damage _____ |
| Soft red winter wheat | | Moisture _____ | BCFM/FM _____ |
| Dockage (grams per 1000 grams) | 43.91 | DKT _____ | Split/Defect _____ |
| Moisture | 13.24% | Odor _____ | Shru & Brkn _____ |
| Test weight (lb/bu) | 60.00 | _____ | _____ |
| Rye | 0.45% | | |
| Sprouted wheat | 0.20% | | |
| Shrunken & broken kernels | 3.17% | | |
| Ground damaged wheat | 0.60% | | |
| Germ damaged wheat | 0.40% | | |
| Wheat has been washed | | | |
| Natural odor | | | |
| Sample #8 | | Test wt. _____ | Heat Damage _____ |
| Soft red winter wheat | | Moisture _____ | BCFM/FM _____ |
| Crotalaria seed | 1 | DKT _____ | Split/Defect _____ |
| Dockage (grams per 1000 grams) | 60.00 | Odor _____ | Shru & Brkn _____ |
| Moisture | 13.00% | _____ | _____ |
| Test weight (lb/bu) | 61.00 | | |
| Barley | 0.71% | | |
| Shrunken & broken kernels | 3.19% | | |
| Stones | 3 | | |
| One cinder | | | |
| Garlicky odor | | | |