

Grain Moisture Conversions to Standard Weights

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Standard bushel weights of common South Dakota crops.

| Crop | Pounds |
|----------------------------------|--------|
| Ear corn | 68 |
| Wheat, Soybean, Flax | 60 |
| Shelled corn, Grain sorghum, Rye | 56 |
| Millet | 50 |
| Barley | 48 |
| Oats | 32 |

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Conversion of standard bushel grain weights to weight by volume.

| Standard bushel weight (lb) | Pounds/cubic feet (lb/ft ³) |
|--------------------------------|---|
| 60 | 48.18 |
| 56 | 44.97 |
| 50 | 40.15 |
| 48 | 38.54 |
| 28 | 22.48 |
| 14 | 11.24 |
| 70* (ear corn) | 28.00* |

*Varies depending on ear size and moisture content.

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Moisture conversions for: **SHELLED CORN**

| Grain moisture pct | Pounds of shelled corn equal to a bushel weight of 56 lbs at 15.5% moisture | Grain moisture pct | Pounds of shelled corn equal to a bushel weight of 56 lbs at 15.5% moisture |
|--------------------|---|--------------------|---|
| 10 | 52.58 | 23 | 61.45 |
| 11 | 53.17 | 24 | 62.26 |
| 12 | 53.77 | 25 | 63.09 |
| 13 | 54.39 | 26 | 63.95 |
| 14 | 55.02 | 27 | 64.82 |
| 15 | 55.67 | 28 | 65.72 |
| 15.5 | 56.00 | 29 | 66.65 |
| 16 | 56.33 | 30 | 67.60 |
| 17 | 57.01 | 31 | 68.58 |
| 18 | 57.71 | 32 | 69.59 |
| 19 | 58.42 | 33 | 70.63 |
| 20 | 59.15 | 34 | 71.70 |
| 21 | 59.90 | 35 | 72.80 |
| 22 | 60.67 | | |

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Moisture conversions for: **EAR CORN**

| Grain moisture pct | Pounds of ear corn equal to a bushel weight of 56 lbs at 15.5% moisture | Grain moisture pct | Pounds of ear corn equal to a bushel weight of 56 lbs at 15.5% moisture |
|--------------------|---|--------------------|---|
| 10 | 63.49 | 23 | 78.25 |
| 11 | 64.25 | 24 | 79.76 |
| 12 | 65.06 | 25 | 81.25 |
| 13 | 65.95 | 26 | 82.82 |
| 14 | 66.89 | 27 | 84.19 |
| 15 | 67.89 | 28 | 85.62 |
| 15.5 | 68.40 | 29 | 87.04 |
| 16 | 68.94 | 30 | 88.50 |
| 17 | 70.09 | 31 | 89.94 |
| 18 | 71.31 | 32 | 91.43 |
| 19 | 72.60 | 33 | 92.85 |
| 20 | 73.96 | 34 | 94.28 |
| 21 | 75.36 | 35 | 95.71 |
| 22 | 76.79 | | |

Source: W.J. Murphy, MU Extension, Agronomy Dept., Univ. Missouri, G4020 - Tables for weights and measurements.

Moisture conversions for: **SOYBEAN**

| Grain moisture pct | Pounds of soybean equal to a bushel weight of 60 lbs at 13.0% moisture | Grain moisture pct | Pounds of soybean equal to a bushel weight of 60 lbs at 13.0% moisture |
|--------------------|--|--------------------|--|
| 10 | 58.00 | 23 | 67.79 |
| 11 | 58.65 | 24 | 68.68 |
| 12 | 59.32 | 25 | 69.60 |
| 13 | 60.00 | 26 | 70.54 |
| 14 | 60.70 | 27 | 71.51 |
| 15 | 61.41 | 28 | 72.50 |
| 16 | 62.14 | 29 | 73.52 |
| 17 | 62.89 | 30 | 74.57 |
| 18 | 63.66 | 31 | 75.65 |
| 19 | 64.64 | 32 | 76.76 |
| 20 | 65.25 | 33 | 77.91 |
| 21 | 66.08 | 34 | 79.09 |
| 22 | 66.92 | 35 | 80.31 |

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Moisture conversions for: **GRAIN SORGHUM (MILO)**

| Grain moisture pct | Pounds of sorghum equal to a bushel weight of 56 lbs at 13.0% moisture | Grain moisture pct | Pounds of sorghum equal to a bushel weight of 56 lbs at 13.0% moisture |
|--------------------|--|--------------------|--|
| 10 | 54.13 | 23 | 63.27 |
| 11 | 54.74 | 24 | 64.11 |
| 12 | 55.36 | 25 | 64.96 |
| 13.0 | 56.00 | 26 | 65.84 |
| 14 | 56.65 | 27 | 66.74 |
| 15 | 57.32 | 28 | 67.67 |
| 16 | 58.00 | 29 | 68.62 |
| 17 | 58.70 | 30 | 69.60 |
| 18 | 59.41 | 31 | 70.61 |
| 19 | 60.15 | 32 | 71.65 |
| 20 | 60.90 | 33 | 72.72 |
| 21 | 61.67 | 34 | 73.82 |
| 22 | 62.46 | 35 | 74.95 |

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Moisture conversions for: **SUNFLOWER**

| Grain moisture pct | Pounds of sunflower equal to a bushel weight of 27 lbs at 10.0% moisture | Grain moisture pct | Pounds of sunflower equal to a bushel weight of 27 lbs at 10.0% moisture |
|--------------------|--|--------------------|--|
| 10 | 27.00 | 23 | 31.56 |
| 11 | 27.30 | 24 | 31.97 |
| 12 | 27.61 | 25 | 32.40 |
| 13 | 27.93 | 26 | 32.84 |
| 14 | 28.26 | 27 | 33.29 |
| 15 | 28.59 | 28 | 33.75 |
| 16 | 28.93 | 29 | 34.23 |
| 17 | 29.28 | 30 | 34.71 |
| 18 | 29.63 | 31 | 35.22 |
| 19 | 30.00 | 32 | 35.74 |
| 20 | 30.38 | 33 | 36.27 |
| 21 | 30.76 | 34 | 36.82 |
| 22 | 31.15 | 35 | 37.38 |

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Moisture conversions for: **WHEAT**

| Grain moisture pct | Pounds of wheat equal to a bushel weight of 60 lbs at 13.5% moisture | Grain moisture pct | Pounds of wheat equal to a bushel weight of 60 lbs at 13.5% moisture |
|--------------------|--|--------------------|--|
| 10 | 57.67 | 23 | 67.40 |
| 11 | 58.65 | 24 | 68.29 |
| 12 | 59.32 | 25 | 69.20 |
| 13 | 59.66 | 26 | 70.14 |
| 13.5 | 60.00 | 27 | 71.10 |
| 14 | 60.35 | 28 | 72.08 |
| 15 | 61.06 | 29 | 73.10 |
| 16 | 61.79 | 30 | 74.14 |
| 17 | 62.53 | 31 | 75.22 |
| 18 | 63.29 | 32 | 76.32 |
| 19 | 64.07 | 33 | 77.46 |
| 20 | 64.88 | 34 | 78.64 |
| 21 | 65.70 | 35 | 79.85 |
| 22 | 66.54 | | |

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Moisture conversions for: **OAT**

| Grain moisture pct | Pounds of oat equal to a bushel weight of 32 lbs at 13.5% moisture | Grain moisture pct | Pounds of oat equal to a bushel weight of 32 lbs at 13.5% moisture |
|--------------------|--|--------------------|--|
| 10 | 30.76 | 24 | 36.42 |
| 11 | 31.10 | 25 | 36.91 |
| 12 | 31.45 | 26 | 37.41 |
| 13 | 31.82 | 27 | 37.92 |
| 13.5 | 32.00 | 28 | 38.44 |
| 14 | 32.19 | 29 | 38.99 |
| 15 | 32.46 | 30 | 39.54 |
| 16 | 32.95 | 31 | 40.12 |
| 17 | 33.35 | 32 | 40.71 |
| 18 | 33.76 | 33 | 41.31 |
| 19 | 34.17 | 34 | 41.94 |
| 20 | 34.60 | 35 | 42.58 |
| 21 | 35.04 | 24 | 36.42 |
| 22 | 35.49 | 25 | 36.91 |
| 23 | 35.95 | | |

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Moisture conversions for: **BARLEY**

| Grain moisture pct | Pounds of barley equal to a bushel weight of 48 lbs at 13.5% moisture | Grain moisture pct | Pounds of barley equal to a bushel weight of 48 lbs at 13.5% moisture |
|--------------------|---|--------------------|---|
| 10 | 46.13 | 24 | 54.63 |
| 11 | 46.65 | 25 | 55.36 |
| 12 | 47.18 | 26 | 56.11 |
| 13 | 47.72 | 27 | 56.88 |
| 13.5 | 48.00 | 28 | 57.67 |
| 14 | 48.28 | 29 | 58.48 |
| 15 | 48.85 | 30 | 59.31 |
| 16 | 49.43 | 31 | 60.17 |
| 17 | 50.02 | 32 | 61.06 |
| 18 | 50.63 | 33 | 61.97 |
| 19 | 51.26 | 34 | 62.91 |
| 20 | 51.90 | 35 | 63.88 |
| 21 | 52.56 | 24 | 54.63 |
| 22 | 53.23 | 25 | 55.36 |
| 23 | 53.92 | | |

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