



Wet to Dry Conversion Chart Instructions

Kentucky Department of Agriculture

Office of Agricultural Marketing

Plant Division • 111 Corporate Drive • Frankfort, KY 40601 • (502) 573-0282



KENTUCKY
DEPARTMENT OF
AGRICULTURE

Ginseng roots vary greatly in size and characteristics. Seasonal and cyclical weather patterns, harvest month, and age of root may affect the moisture content of the ginseng root. Post-harvest handling and drying techniques affect the market value of the ginseng root. Roots dried too fast and with too high of heat damages the coloring throughout the ginseng root and the desired chemicals inside the ginseng root. Ginseng dried too slowly encourages fungal grow and discoloration on the root. As a dealer, you may choose to buy fresh roots to control the drying process or sell fresh roots.

Why a Conversion Chart?

This chart is to help standardize and provide consistency in reporting ginseng weights, especially when a dealer purchases roots fresh and intends to dry and certify the roots are dry.

The ginseng industry rule-of-thumb standard for weight shrinkage from drying ginseng roots is one-third ($1/3$). Meaning, for every pound of wet ginseng that you properly dry, the dry weight will be one-third ($1/3$) of a pound or 5.25 ounces or 0.33 pounds. This chart simply divides all numbers in the wet column by 3 and those calculations are in the dry column. All calculations go out two decimal places, which is in increments to the thousandths of a pound. Due to rounding, you will find groups of three on the dry side, noted with shading.

Instructions

To use the chart, find the weight of the fresh root in the "Wet" column, and you will find the dry weight. For wet weights over three pounds, see examples.

Remember, on your purchase forms you should record how the ginseng is at the time of purchase from the buyer, not on how *you* plan to sell the root.

How to fill out on Purchase Forms

Please, for timely processing, record like transactions on the same form. In other words, use a separate form for green ginseng and dry ginseng.

If a harvester sells you green ginseng, you must record the transaction as a green transaction. If you plan to certify the ginseng as dry, divide each transaction line by three or use this chart, and then add up a new total. Forms provide an area for the green and dry weights; just see noted areas.

Limitations of the conversion chart

As a dealer buying fresh ginseng, you will also likely purchase ginseng unwashed. You are buying dirt. You will experience weight shrinkage when you prepare roots for drying. How you document the amount of shrinkage is up to you; the better you keep your records and maintain inventory will help honestly report this expected occurrence

If you find that you are "losing" ginseng due to this conversion, you can always bring the entire lot after dried and get a full accurate count at our office at the time of certification. While we understand a standard conversion is imperfect, it is your responsibility as a dealer to properly and honestly report such weight discrepancies in your paperwork.



Wet Weight to Dry Weight Conversion Chart

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Wet	Dry
0.01	0.00
0.02	0.01
0.03	0.01
0.04	0.01
0.05	0.02
0.06	0.02
0.07	0.02
0.08	0.03
0.09	0.03
0.10	0.03
0.11	0.04
0.12	0.04
0.13	0.04
0.14	0.05
0.15	0.05
0.16	0.05
0.17	0.06
0.18	0.06
0.19	0.06
0.20	0.07
0.21	0.07
0.22	0.07
0.23	0.08
0.24	0.08
0.25	0.08

Wet	Dry
0.26	0.09
0.27	0.09
0.28	0.09
0.29	0.10
0.30	0.10
0.31	0.10
0.32	0.11
0.33	0.11
0.34	0.11
0.35	0.12
0.36	0.12
0.37	0.12
0.38	0.13
0.39	0.13
0.40	0.13
0.41	0.14
0.42	0.14
0.43	0.14
0.44	0.15
0.45	0.15
0.46	0.15
0.47	0.16
0.48	0.16
0.49	0.16
0.50	0.17

Wet	Dry
0.51	0.17
0.52	0.17
0.53	0.18
0.54	0.18
0.55	0.18
0.56	0.19
0.57	0.19
0.58	0.19
0.59	0.20
0.60	0.20
0.61	0.20
0.62	0.21
0.63	0.21
0.64	0.21
0.65	0.22
0.66	0.22
0.67	0.22
0.68	0.23
0.69	0.23
0.70	0.23
0.71	0.24
0.72	0.24
0.73	0.24
0.74	0.25
0.75	0.25

Wet	Dry
0.76	0.25
0.77	0.26
0.78	0.26
0.79	0.26
0.80	0.27
0.81	0.27
0.82	0.27
0.83	0.28
0.84	0.28
0.85	0.28
0.86	0.29
0.87	0.29
0.88	0.29
0.89	0.30
0.90	0.30
0.91	0.30
0.92	0.31
0.93	0.31
0.94	0.31
0.95	0.32
0.96	0.32
0.97	0.32
0.98	0.33
0.99	0.33
1.00	0.33

Wet	Dry
1.01	0.34
1.02	0.34
1.03	0.34
1.04	0.35
1.05	0.35
1.06	0.35
1.07	0.36
1.08	0.36
1.09	0.36
1.10	0.37
1.11	0.37
1.12	0.37
1.13	0.38
1.14	0.38
1.15	0.38
1.16	0.39
1.17	0.39
1.18	0.39
1.19	0.40
1.20	0.40
1.21	0.40
1.22	0.41
1.23	0.41
1.24	0.41
1.25	0.42

Wet	Dry
1.26	0.42
1.27	0.42
1.28	0.43
1.29	0.43
1.30	0.43
1.31	0.44
1.32	0.44
1.33	0.44
1.34	0.45
1.35	0.45
1.36	0.45
1.37	0.46
1.38	0.46
1.39	0.46
1.40	0.47
1.41	0.47
1.42	0.47
1.43	0.48
1.44	0.48
1.45	0.48
1.46	0.49
1.47	0.49
1.48	0.49
1.49	0.50
1.50	0.50



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Wet	Dry
1.51	0.50
1.52	0.51
1.53	0.51
1.54	0.51
1.55	0.52
1.56	0.52
1.57	0.52
1.58	0.53
1.59	0.53
1.60	0.53
1.61	0.54
1.62	0.54
1.63	0.54
1.64	0.55
1.65	0.55
1.66	0.55
1.67	0.56
1.68	0.56
1.69	0.56
1.70	0.57
1.71	0.57
1.72	0.57
1.73	0.58
1.74	0.58
1.75	0.58

Wet	Dry
1.76	0.59
1.77	0.59
1.78	0.59
1.79	0.60
1.80	0.60
1.81	0.60
1.82	0.61
1.83	0.61
1.84	0.61
1.85	0.62
1.86	0.62
1.87	0.62
1.88	0.63
1.89	0.63
1.90	0.63
1.91	0.64
1.92	0.64
1.93	0.64
1.94	0.65
1.95	0.65
1.96	0.65
1.97	0.66
1.98	0.66
1.99	0.66
2.00	0.67

Wet	Dry
2.01	0.67
2.02	0.67
2.03	0.68
2.04	0.68
2.05	0.68
2.06	0.69
2.07	0.69
2.08	0.69
2.09	0.70
2.10	0.70
2.11	0.70
2.12	0.71
2.13	0.71
2.14	0.71
2.15	0.72
2.16	0.72
2.17	0.72
2.18	0.73
2.19	0.73
2.20	0.73
2.21	0.74
2.22	0.74
2.23	0.74
2.24	0.75
2.25	0.75

Wet	Dry
2.26	0.75
2.27	0.76
2.28	0.76
2.29	0.76
2.30	0.77
2.31	0.77
2.32	0.77
2.33	0.78
2.34	0.78
2.35	0.78
2.36	0.79
2.37	0.79
2.38	0.79
2.39	0.80
2.40	0.80
2.41	0.80
2.42	0.81
2.43	0.81
2.44	0.81
2.45	0.82
2.46	0.82
2.47	0.82
2.48	0.83
2.49	0.83
2.50	0.83

Wet	Dry
2.51	0.84
2.52	0.84
2.53	0.84
2.54	0.85
2.55	0.85
2.56	0.85
2.57	0.86
2.58	0.86
2.59	0.86
2.60	0.87
2.61	0.87
2.62	0.87
2.63	0.88
2.64	0.88
2.65	0.88
2.66	0.89
2.67	0.89
2.68	0.89
2.69	0.90
2.70	0.90
2.71	0.90
2.72	0.91
2.73	0.91
2.74	0.91
2.75	0.92

Wet	Dry
2.76	0.92
2.77	0.92
2.78	0.93
2.79	0.93
2.80	0.93
2.81	0.94
2.82	0.94
2.83	0.94
2.84	0.95
2.85	0.95
2.86	0.95
2.87	0.96
2.88	0.96
2.89	0.96
2.90	0.97
2.91	0.97
2.92	0.97
2.93	0.98
2.94	0.98
2.95	0.98
2.96	0.99
2.97	0.99
2.98	0.99
2.99	1.00
3.00	1.00