


Farm Storage/Structure Measurement Worksheet

Insured's Name:				Policy Number:				Claim Number:			
Unit Number:		Crop:		Bin #:				Date:			

ROUND	Diameter x Diameter	Factor	x Depth	Deductions	Net Cubic Feet	Conversion Factor	Gross Production	FM	FM Factor	Moisture	Moisture Factor	TW	Pack factor	Net Production
	=	.7854		-	=	x	=		x		x		x	=

Square Foot Factor Calculation	Diameter	Diameter	Factor	Square Feet										
		x	x .7854	=	* * Take this number to the Combined Test Weight and Pack factor chart. 									

CONE	Diameter x Diameter	Factor	x Depth	Deductions	Net Cubic Feet	Conversion Factor	Gross Production	FM	FM Factor	Moisture	Moisture Factor	TW	Pack Factor	Net Production
	=	.2618		-	=	x	=		x		x		x	=

Square or Rectangle	Length	Height	Width	Deductions	Net Cubic Feet	Conversion Factor	Gross Production	FM	FM Factor	Moisture	Moisture Factor	TW	Pack Factor	Net Production
		x	x	-	=	x	=		x		x		x	=

Square Foot Factor Calculation	Length	Height	Width	Square Feet										
		x	x	=	Take this number to the Combined Test Weight and Pack factor chart.									

Deductions						Sketch the storage structure and location.
Square (studs, etc.)	Depth	Width	Length	No. of Studs	Total Deduction	
		x	x	x	=	
Round (vents, etc.)	Length	Diameter x Diameter	Factor	No. of Vents	Total Deduction	
		x	x .7854	x	=	
Notes:						

The example below would be an 18' diameter bin with 20' of level corn in it and a 3.5' cone. The corn has a moisture reading of 16% and a test weight of 55.

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Insured's Name:			Policy Number:			Claim Number:		
Unit Number:		Crop:		Bin #:		Date:		

ROUND	Diameter x Diameter	Factor	x Depth	Deductions	Net Cubic Feet	Conversion Factor	Gross Production	FM	FM Factor	Moisture	Moisture Factor	TW	Pack factor	Net Production
	= 324	.7854	20	-	= 5089.4	x 0.8	= 4071.5		x	16.0	x .9880	55	x 1.003	= 4034.7

Square Foot Factor Calculation	Diameter	Diameter	Factor	Square Feet	Take this number to the Combined Test Weight and Pack factor chart.									
	18	x 18	x .7854	= 254.5										

CONE	Diameter x Diameter	Factor	x Depth	Deductions	Net Cubic Feet	Conversion Factor	Gross Production	FM	FM Factor	Moisture	Moisture Factor	TW	Pack Factor	Net Production
	= 324	.2618	3.5	-	= 296.9	x 0.8	= 237.5		x	16.0	x .9880	55	x 1.003	= 235.4

Converting Volume to Bushels, Hundredweight, or Pounds

Net cubic feet multiplied by the conversion factor, hundredweight, or pounds shown in the chart below results in unadjusted gross production (before adjustments for weight, moisture, and dockage).

Crop	For Bushels	For Hundredweight	For Pounds
Barley	0.8		
Beans (Dry)	0.8		<u>1/</u>
Buckwheat	0.8		
Camelina	0.8		<u>1/</u>
Canola/rapeseed	0.8		<u>1/</u>
Corn (Shelled)	0.8		
Corn (ear)	0.4		
Corn (Ground Shelled)	0.7		
Corn (Ground Ear)	0.6		
Corn (Hybrid Seed)	0.8		
Flaxseed	0.8		
Grain Sorghum	0.8		
Hybrid Seed Sorghum	0.8		
Millet	0.8		
Mustard	0.8		<u>1/</u>
Oats	0.8		
Peanuts (Spanish SW & SE)			19.7 <u>1/</u>
Peanuts (Runner)			16.9 <u>1/</u>
Peanuts (Virginia)			13.5 <u>1/</u>
Peanuts (Valencia)			17.5 <u>1/</u>
Peas (Dry)	0.8		<u>1/</u>
Popcorn (Shelled)	0.8		<u>1/</u>
Popcorn (Ear)	0.4		<u>1/</u>
Potatoes		0.4167	
Rice	0.8		<u>1/</u>
Rye	0.8		<u>1/</u>
Safflowers	0.8		<u>1/</u>
Soybeans	0.8		
Sesame	0.8		<u>1/</u>
Sunflower (oil and non-oil)	0.8		<u>1/</u>
Louisiana Sweet Potatoes		0.4283	
Wheat	0.8		
Wild Rice (Cultivated)	0.8		<u>2/</u>

1/ To convert to pounds: Net cubic feet x Conversion Factor x Actual Test Weight = adjusted Gross Production for test weight.

2/ Refer to the Cultivated Wild Rice Handbook for specific weight to use for calculations.

CORN – COMBINED TEST WEIGHT AND PACK FACTORS

Test Weight	Less Than 255 Sq. Ft. -	255 Sq. Ft. to 461 Sq. Ft. -	462 Sq. Ft. to 767 Sq. Ft. -	768 Sq. Ft. to 1384 Sq. Ft. -	1385 Sq. Ft. to 2289 Sq. Ft. -	2290 or Over Sq. Ft. -
30.0	0.587	0.594	0.603	0.610	0.610	0.610
30.5	0.596	0.603	0.612	0.619	0.619	0.619
31.0	0.605	0.612	0.622	0.628	0.628	0.628
31.5	0.614	0.621	0.631	0.638	0.638	0.638
32.0	0.623	0.630	0.640	0.647	0.647	0.647
32.5	0.632	0.639	0.649	0.656	0.656	0.656
33.0	0.641	0.648	0.658	0.665	0.665	0.665
33.5	0.649	0.657	0.667	0.674	0.674	0.674
34.0	0.658	0.665	0.676	0.684	0.684	0.684
34.5	0.667	0.674	0.685	0.693	0.693	0.693
35.0	0.676	0.683	0.694	0.702	0.702	0.702
35.5	0.684	0.692	0.703	0.711	0.711	0.711
36.0	0.693	0.701	0.712	0.720	0.720	0.720
36.5	0.702	0.709	0.721	0.729	0.729	0.729
37.0	0.710	0.718	0.730	0.738	0.738	0.738
37.5	0.719	0.727	0.739	0.747	0.747	0.747
38.0	0.727	0.736	0.748	0.756	0.756	0.756
38.5	0.736	0.744	0.757	0.765	0.765	0.765
39.0	0.744	0.753	0.765	0.774	0.774	0.774
39.5	0.753	0.761	0.774	0.783	0.783	0.783
40.0	0.761	0.770	0.783	0.791	0.791	0.791
40.5	0.770	0.779	0.792	0.800	0.800	0.800
41.0	0.778	0.787	0.800	0.809	0.809	0.809
41.5	0.787	0.796	0.809	0.818	0.818	0.818
42.0	0.795	0.804	0.818	0.841	0.853	0.871
42.5	0.803	0.812	0.826	0.849	0.861	0.879
43.0	0.812	0.821	0.835	0.857	0.869	0.887
43.5	0.820	0.829	0.843	0.865	0.877	0.895
44.0	0.828	0.838	0.852	0.873	0.885	0.903
44.5	0.836	0.846	0.860	0.881	0.893	0.911
45.0	0.845	0.854	0.869	0.889	0.901	0.919
45.5	0.853	0.862	0.877	0.897	0.909	0.927
46.0	0.861	0.871	0.886	0.905	0.917	0.935
46.5	0.869	0.879	0.894	0.913	0.925	0.943
47.0	0.877	0.887	0.902	0.921	0.933	0.951
47.5	0.885	0.895	0.911	0.929	0.941	0.959
48.0	0.893	0.903	0.919	0.937	0.949	0.967
48.5	0.901	0.912	0.927	0.945	0.957	0.975
49.0	0.909	0.920	0.935	0.953	0.965	0.983
49.5	0.917	0.928	0.944	0.961	0.973	0.991

CORN – COMBINED TEST WEIGHT AND PACK FACTORS (CONTINUED)

Test Weight	Less Than 255 Sq. Ft. -	255 Sq. Ft. to 461 Sq. Ft. -	462 Sq. Ft. to 767 Sq. Ft. -	768 Sq. Ft. to 1384 Sq. Ft. -	1385 Sq. Ft. to 2289 Sq. Ft. -	2290 or Over Sq. Ft. -
50.0	0.925	0.936	0.952	0.969	0.981	0.999
50.5	0.933	0.944	0.960	0.978	0.990	1.009
51.0	0.941	0.952	0.968	0.986	0.998	1.017
51.5	0.949	0.960	0.976	0.994	1.006	1.025
52.0	0.956	0.968	0.984	1.003	1.015	1.034
52.5	0.964	0.975	0.992	1.011	1.024	1.043
53.0	0.972	0.983	1.000	1.019	1.032	1.051
53.5	0.980	0.991	1.008	1.027	1.040	1.059
54.0	0.987	0.999	1.016	1.036	1.049	1.069
54.5	0.995	1.007	1.024	1.044	1.057	1.077
55.0	1.003	1.015	1.032	1.052	1.065	1.085
55.5	1.010	1.022	1.040	1.060	1.073	1.094
56.0	1.018	1.030	1.048	1.068	1.081	1.102
56.5	1.026	1.038	1.056	1.076	1.089	1.110
57.0	1.033	1.045	1.064	1.084	1.097	1.118
57.5	1.041	1.053	1.071	1.092	1.105	1.126
58.0	1.048	1.061	1.079	1.100	1.113	1.134
58.5	1.056	1.068	1.087	1.108	1.122	1.143
59.0	1.063	1.076	1.095	1.116	1.130	1.151
59.5	1.070	1.083	1.102	1.123	1.138	1.160
60.0	1.078	1.091	1.110	1.131	1.146	1.168
60.5	1.085	1.098	1.118	1.139	1.153	1.175
61.0	1.093	1.106	1.125	1.147	1.161	1.183
61.5	1.100	1.113	1.133	1.155	1.169	1.191
62.0	1.107	1.120	1.140	1.163	1.177	1.199
62.5	1.114	1.127	1.147	1.171	1.185	1.207
63.0	1.121	1.134	1.154	1.179	1.193	1.215
63.5	1.128	1.141	1.161	1.187	1.201	1.223
64.0	1.135	1.148	1.168	1.195	1.209	1.231

Applicable only to shelled corn. If the actual test weight is not shown on the chart, refer to exhibit 8, Section II, column 60b for instructions.

Soybean
Combined Test Weight and Pack Factor

Exhibit 7

Test Weight	Less Than 255 Sq. Ft. -	255 Sq. Ft. to 461 Sq. Ft. -	462 Sq. Ft. to 767 Sq. Ft. -	768 Sq. Ft. to 1384 Sq. Ft.	1385 Sq. Ft. to 2289 Sq. Ft.	2290 or Over Sq. Ft. -
40.0	0.719	0.727	0.739	0.745	0.757	0.774
40.5	0.727	0.735	0.747	0.753	0.765	0.782
41.0	0.735	0.743	0.755	0.761	0.773	0.790
41.5	0.743	0.751	0.763	0.769	0.781	0.798
42.0	0.750	0.759	0.771	0.777	0.789	0.806
42.5	0.758	0.767	0.780	0.785	0.797	0.814
43.0	0.766	0.775	0.788	0.793	0.805	0.822
43.5	0.774	0.783	0.796	0.801	0.813	0.830
44.0	0.782	0.791	0.804	0.809	0.821	0.838
44.5	0.790	0.798	0.812	0.817	0.829	0.846
45.0	0.797	0.806	0.820	0.825	0.837	0.854
45.5	0.805	0.814	0.828	0.833	0.845	0.862
46.0	0.813	0.822	0.836	0.841	0.853	0.870
46.5	0.820	0.830	0.844	0.849	0.861	0.878
47.0	0.828	0.837	0.851	0.857	0.869	0.886
47.5	0.836	0.845	0.859	0.865	0.877	0.894
48.0	0.843	0.853	0.867	0.873	0.885	0.902
48.5	0.851	0.860	0.875	0.881	0.893	0.910
49.0	0.858	0.868	0.883	0.889	0.901	0.918
49.5	0.866	0.876	0.891	0.897	0.909	0.926
50.0	0.873	0.883	0.898	0.905	0.917	0.934
50.5	0.881	0.891	0.906	0.913	0.925	0.942
51.0	0.888	0.898	0.914	0.921	0.933	0.951
51.5	0.896	0.906	0.921	0.928	0.940	0.957
52.0	0.903	0.913	0.929	0.936	0.948	0.966
52.5	0.910	0.921	0.937	0.943	0.955	0.973
53.0	0.918	0.928	0.944	0.951	0.963	0.981
53.5	0.925	0.936	0.952	0.959	0.971	0.990
54.0	0.932	0.943	0.959	0.966	0.978	0.997
54.5	0.940	0.951	0.967	0.974	0.986	1.005
55.0	0.947	0.958	0.974	0.982	0.994	1.013
55.5	0.954	0.965	0.982	0.989	1.001	1.020
56.0	0.961	0.973	0.989	0.997	1.010	1.029
56.5	0.969	0.980	0.997	1.004	1.016	1.035
57.0	0.976	0.987	1.004	1.012	1.025	1.044
57.5	0.983	0.994	1.012	1.019	1.032	1.051
58.0	0.990	1.001	1.019	1.027	1.040	1.060
58.5	0.997	1.009	1.026	1.034	1.047	1.067
59.0	1.004	1.016	1.033	1.041	1.054	1.074
59.5	1.011	1.023	1.041	1.049	1.062	1.083
60.0	1.018	1.030	1.048	1.056	1.069	1.090
60.5	1.025	1.037	1.055	1.063	1.076	1.097
61.0	1.032	1.044	1.062	1.071	1.084	1.105
61.5	1.039	1.051	1.070	1.078	1.091	1.112
62.0	1.046	1.058	1.077	1.085	1.098	1.119
62.5	1.053	1.065	1.084	1.092	1.105	1.126

Combined Test Weight and Pack Factor (Continued)

Test Weight	Less Than 255 Sq. Ft. -	255 Sq. Ft. to 461 Sq. Ft. -	462 Sq. Ft. to 767 Sq. Ft. -	768 Sq. Ft. to 1384 Sq. Ft.	1385 Sq. Ft. to 2289 Sq. Ft.	2290 or Over Sq. Ft. -
63.0	1.059	1.072	1.091	1.099	1.112	1.133
63.5	1.066	1.079	1.098	1.106	1.119	1.140
64.0	1.073	1.086	1.105	1.113	1.126	1.147
64.5	1.080	1.093	1.112	1.120	1.133	1.154
65.0	1.087	1.100	1.119	1.127	1.140	1.161

If the actual test weight is not shown on the chart, refer to exhibit 4, item 60b for instructions.