

TESTS OF GRAIN PRESSURES IN BINS.

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Table of Grain Pressure calculated from Tests by H. A. Janssen, reduced to English Weights and Measures for comparison with tests made by J. A. Jamieson.

Wheat.—Janssen Test No. 3.—Square Wooden Bin.

Bin No. 2.—Size 11.8" x 11.8"—139.24 sq. inches.

Grain weighed into bin.	Height of grain column.	Pressure of grain on bottom of bin.		Grain carried on bottom.		Grain carried on sides.	
		in. water	lbs per sq. inch	Weight	% of total weight of grain.	Weight.	% of total weight of grain.
lbs	inches.			lbs.		lbs	
23.2	6.0	3 $\frac{1}{4}$	0.13530	18.84	81.20	4.36	18.80
46.4	12.0	5 $\frac{1}{4}$	0.20746	28.89	62.26	17.51	37.74
69.6	18.0	7 $\frac{1}{4}$	0.27933	36.11	51.88	33.49	48.62
92.8	24.0	8 $\frac{1}{4}$	0.29315	40.82	43.98	51.98	56.02
116.0	30.0	8 $\frac{3}{4}$	0.31570	43.96	37.90	72.04	62.10
139.2	36.0	9 $\frac{1}{4}$	0.33149	46.16	33.16	93.04	66.84
162.4	42.0	9 $\frac{3}{4}$	0.34276	47.73	29.39	114.67	70.61
185.6	48.0	9 $\frac{3}{4}$	0.34727	48.35	26.05	137.25	73.95
198.4	51.3	9 $\frac{3}{4}$	0.34727	38.35	24.36	150.06	75.64
208.8	54.0	9 $\frac{3}{4}$	0.34727	48.35	23.15	160.45	76.85
232.0	60.0	9 $\frac{3}{4}$	0.35178	48.98	21.11	183.02	78.89
255.2	66.0	9 $\frac{3}{4}$	0.35404	49.30	19.35	205.90	80.65
278.4	72.0	9 $\frac{3}{4}$	0.35629	49.61	17.82	228.79	82.18
301.6	78.0	9 $\frac{3}{4}$	0.35629	49.61	16.44	251.99	83.56

Carried on bottom 49.61 on sides 251.99