

**Upright Silo Capacities for  
Alfalfa Silage (AS) and Corn Silage (CS)**

Diameter and settled depth	40%		50%		60%		70%	
	AS	CS	AS	CS	AS	CS	AS	CS
12 x 30	35	47	44	54	57	62	83	74
12 x 40	50	66	62	75	80	87	116	103
12 x 50	63	85	78	97	104	111	150	132
14 x 40	69	93	86	106	114	121	163	143
14 x 50	89	121	111	137	148	158	210	185
14 x 55	99	134	125	153	164	175	240	210
16 x 50	120	163	151	184	200	210	290	250
16 x 60	149	200	186	230	250	260	360	300
16 x 65	162	220	200	250	270	280	390	330
18 x 50	157	210	196	240	260	270	370	320
18 x 60	194	260	240	290	320	340	460	390
18 x 70	230	310	290	350	390	400	560	460
20 x 60	250	330	310	370	410	420	590	490
20 x 70	300	390	370	440	490	500	700	580
20 x 80	350	460	430	510	580	580	820	670
24 x 60	370	490	470	540	620	620	880	710
24 x 70	450	580	560	650	740	740	1050	850
24 x 80	530	680	660	760	870	850	1230	980
24 x 90	610	780	760	850	1000	970	1410	1110
30 x 80	880	1090	1090	1280	1430	1480	2000	1630
30 x 90	1010	1240	1260	1480	1650	1710	2290	1880

**Wagon Capacities**

Depth (ft)	Tons			
	Length (ft)			
	14	16	18	20
<b>70% Moisture</b>				
1	1.5	1.5	1.5	2.0
2	2.5	3.0	3.5	4.0
3	4.0	4.5	5.0	5.5
4	5.5	6.0	7.0	7.5
5	6.5	7.5	8.5	9.5
6	8.0	9.0	10.0	11.5
7	9.0	10.5	12.0	13.0
8	10.5	12.0	13.5	15.0
9	12.0	13.5	15.0	17.0
10	13.0	15.3	17.0	19.0
<b>60% Moisture</b>				
1	1.0	1.0	1.5	1.5
2	2.0	2.5	2.5	3.0
3	3.0	3.5	4.0	4.5
4	4.0	5.0	5.5	6.0
5	5.5	6.0	7.0	7.5
6	6.5	7.0	8.0	9.0
7	7.5	8.5	9.5	10.5
8	8.5	9.5	11.0	12.0
9	9.5	11.0	12.0	13.5
10	10.0	12.0	13.5	15.0

Source: J.C. Jofriet, University of Guelph, Guelph, Ontario. Adapted from the October 25, 1986 issue of Hoard's Dairyman.  
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**Bag Capacities**

Bag Size	Corn Silage & Haylage @65% DM		Ground Shell
	H.M.S.C. (Tons)	Corn (Tons)	
8' x 100'	95	114	
8' x 150'	140	168	
8' x 200'	190	228	
9' x 100'	120	144	
9' x 150'	175	211	
9' x 200'	240	289	
10' x 200'	295	355	
10' x 250'	365	439	
10' x 300'	440	529	
12' x 200'	420	505	
12' x 250'	525	632	
12' x 300'	630	758	
14' x 200'	575	692	
14' x 250'	715	860	
14' x 300'	860	1035	

**Horizontal Silo Capacities**

Depth (ft)	Bottom width, feet*						
	20	30	40	50	60	70	80
	Tons** per foot of length						
8	3.4	5.0	6.5	8.1	10.0	11.3	13.0
10	4.3	6.2	8.4	10.2	12.2	14.2	16.2
12	5.2	7.5	10.0	12.3	14.6	17.0	20.0
14	6.0	8.7	11.5	14.3	17.0	20.0	22.7
16	7.0	10.0	13.1	16.3	20.0	22.7	26.0
18	8.2	11.1	14.7	18.3	22.0	27.6	29.1

\*Sidewalls slope out 1' in 8' of height.  
\*\*Capacity based on 40lbs. per cubic foot. (Approx. 70% moisture silage)  
Source: Silage and Silos, Special circular #223.  
The Pennsylvania State University College of Agriculture, Extension Service, University Park, PA.

Note: Actual Capacity varies due to moisture and pack  
High Moisture corn calculated using 30% moisture