

# Capacity Charts

## As-fed upright silo capacity

Size, ft (diameter x height)	Corn silage & haylage			HMSC	Ground HMSC	Ground HM ear corn
	70%	60%	50%	30%	30%	30%
Moisture content	70%	60%	50%	30%	30%	30%
12x30	80	65	50	89	95	70
12x40	115	90	70	120	128	94
12x50	155	120	95	151	160	120
14x40	160	120	96	165	172	128
14x50	213	160	127	208	220	163
14x60	266	200	160	251	264	198
16x30	146	110	88	150	166	123
16x40	209	156	125	220	224	167
16x50	278	208	167	274	285	213
16x60	347	260	208	330	345	259
18x40	265	198	159	270	284	211
18x50	352	264	211	350	360	269
18x60	440	330	264	422	437	328
18x70	530	398	318	496	520	389
20x40	326	245	196	340	350	260
20x50	435	326	261	428	445	332
20x60	543	407	326	525	540	404
20x70	655	491	393	617	638	480
20x80	767	575	460	708	736	557
24x50	626	470	375	600	640	478
24x60	782	587	469	763	776	582
24x70	943	707	565	897	918	692
24x80	1,104	828	662	1,032	1,060	801
24x90	1,275	955	764	1,165	1,209	920
30x80	1,725	1,293	1,035	1,628	1,656	1,252
30x90	1,990	1,493	1,195	1,840	1,888	1,434

## Wagon capacity

Depth, ft	Approximate tons (as-is basis)							
	Length, ft (65% moisture)				Length, ft (55% moisture)			
	14	16	18	20	14	16	18	20
3	3.5	4.0	4.5	5.0	2.5	3.0	3.5	4.0
4	4.5	5.5	6.0	6.5	3.5	4.0	4.5	5.0
5	6.0	6.5	7.5	8.5	4.5	5.0	5.5	6.5
6	7.0	8.0	9.0	10.0	5.5	6.0	7.0	7.5
7	8.0	9.5	10.5	12.0	6.0	7.0	8.0	9.0
8	9.5	11.0	12.0	13.5	7.0	8.0	9.0	10.0

## Bag capacity\*

Bag size, ft	Tons (fresh) per linear foot
8	1
9	1.25
10	1.5
11	1.75
12	2.25
14	2.75

\*Estimates shown are for corn silage.

## Ratio for bag chart

Type of crop, moisture	Relation to 65% corn silage tonnage
Haylage, 60%	100%
HMSC, 30%	130%
Earlage, 35%	120%
Snaplage, 40%	130%

## Estimated as-fed capacity for bunkers and piles

Enter avg width*	1. _____	ft
Enter avg length	2. _____	ft
Enter avg height	3. _____	ft
Multiply 1x2x3	4. _____	lb/ft <sup>3</sup> in structure
Est as-fed density**	5. _____	lb/ft <sup>3</sup>
Multiply 4x5	6. _____	lb as-fed in structure
Divide by 2,000	7. _____	tons as-fed in structure

\*To determine dimensions for piles, look at the slopes of each side of the pile. Visualize how much of the slope would need to be "folded back" on itself to square up the sides of the pile to determine average width.

\*\*Use known as-fed density when possible. Otherwise, start with these average densities: 40 lb for haylage and corn silage; 60 lb for HMSC; and 45 lb for earlage/snaplage. Use higher or lower numbers for well packed or poorly packed units, respectively.

# CROP-N-RICH<sup>®</sup> BUCHNERI

Easy-to-use silage inoculant  
reduces spoilage and heating  
of high moisture corn,  
earlage/snaplage, and forage  
Contains *Lactobacillus buchneri* PJB/1



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REV 0424



# CROP-N-RICH® BUCHNERI

Silage inoculant with *L. buchneri* PJB/1 bacteria reduces yeast growth and subsequent mold, spoilage, and heating

## Proven effective

### Research shows:

- Less spoilage, longer bunklife and less wasted feed
- Improved palatability
- More acetic acid, more propylene glycol, fewer spoilage yeasts, improved aerobic stability and better silage hygiene (fewer Clostridia and Enterobacteria)

### Pure, effective bacterial inoculant:

- Acetic acid is a powerful fungicide that reduces yeast growth and subsequent mold, spoilage, and heating. *L. buchneri* PJB/1 works by producing higher levels of acetic acid in the silage.
- When applied according to label instructions, Crop-N-Rich Buchneri supplies *L. buchneri* PJB/1 at a rate of:
  - 600,000 colony-forming units (CFU) per gram of high moisture corn (HMC)
  - 400,000 CFU per gram of snaplage/earlage
  - 200,000 CFU per gram of forage

## Unmatched ease of use

- Water-soluble prills easily mix into solution in less than 45 seconds

### Use when:

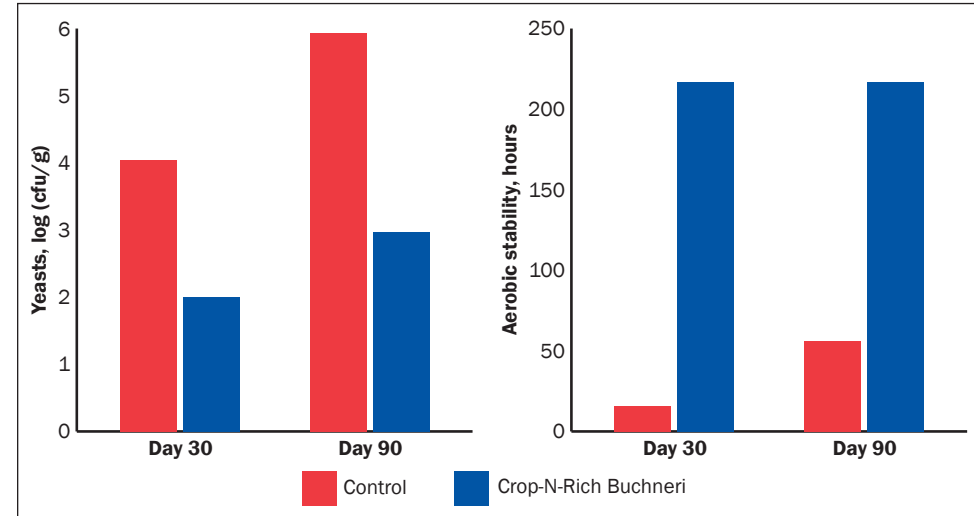
- Storing HMC and small grains as spoilage and heating are concerns
- Forages are fed during warm weather, feedout rates are a challenge, high-starch feeds are stored, feeds may be moved after storage, TMRs tend to heat in the feedbunk, or crops have been compromised by rain, hail, insects, drought, or disease
- Crops are stored with greater than 25% moisture
- Feedout will begin after at least 45 days in storage to maximize aerobic stability benefits



### Product options:

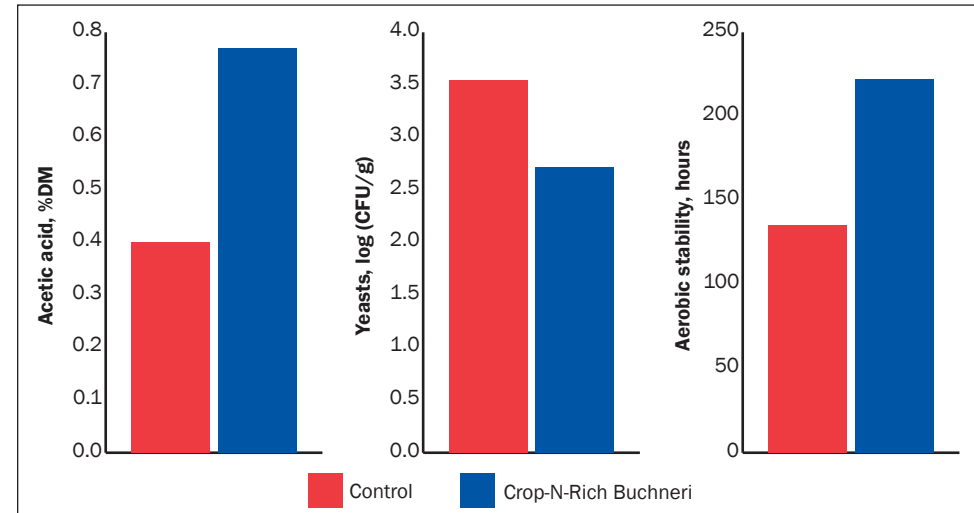
- **Crop-N-Rich Buchneri 100:** Treats 100 tons (as-is) of HMC, 150 tons (as-is) of snaplage/earlage or 300 tons (as-is) of forage
- **Crop-N-Rich Buchneri 500:** Treats 500 tons (as-is) of HMC, 750 tons (as-is) of snaplage/earlage or 1,500 tons (as-is) of forage

Fewer yeasts and increased aerobic stability in bucket silos of HMC (74% dry matter (DM)/ 26% moisture) treated with *L. buchneri* PJB/1 and opened after 30 and 90 days of ensiling.



Source: da Silva et al., 2018, Journal of Dairy Science.

Greater acetic acid, fewer yeasts, and improved aerobic stability in snaplage (62% DM/ 38% moisture) treated with *L. buchneri* PJB/1 and opened after 90 days of ensiling.



Source: University of Delaware, 2015.