

# 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%			
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%
Snappleage, 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/snappleage. Use higher or lower numbers for well packed or poorly packed units, respectively.

# CROP-N-RICH<sup>®</sup> MTD/1<sup>®</sup>

Easy-to-use silage inoculant  
for greater dry matter  
recovery in a broad range of  
forages and conditions

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*Lactobacillus plantarum* MTD/1



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# CROP-N-RICH<sup>®</sup> MTD/1<sup>®</sup>

Silage inoculant with *L. plantarum* MTD/1 bacteria provides a more efficient fermentation for greater dry matter (DM) recovery

## Proven effective

### Backed by more than 200 research trials showing:

- Improved fermentation profile
- 2.7% improvement in DM recovery of corn silage and 4.1% improvement in haylage
- Average 3% improvement in digestibility
- 2.5-pounds-per-cow increase in daily milk production
- Better protein quality retention, fewer biogenic amines, improved protein digestion and retention in rumen, and lower milk urea nitrogen (MUN)

### Pure, effective bacterial inoculant:

- *L. plantarum* MTD/1 is the most research-proven silage inoculant bacteria that produces lactic acid to quickly lower the silage pH and reduce DM loss
  - Crop-N-Rich MTD/1 supplies 100,000 colony forming units (CFU) of *L. plantarum* MTD/1 per gram of forage
- Fast-growing bacteria double within minutes of application

## Unmatched ease of use

- Water-soluble inoculant easily mixes into solution in less than 45 seconds
- Same product can be used on all forages and high moisture grains at the same application rate
- Works at a wide pH range of 3.5 to 7.5
- Active under high and low DM conditions
- Best tank viability and temperature tolerance available
- No refrigeration or special handling required



### Product options:

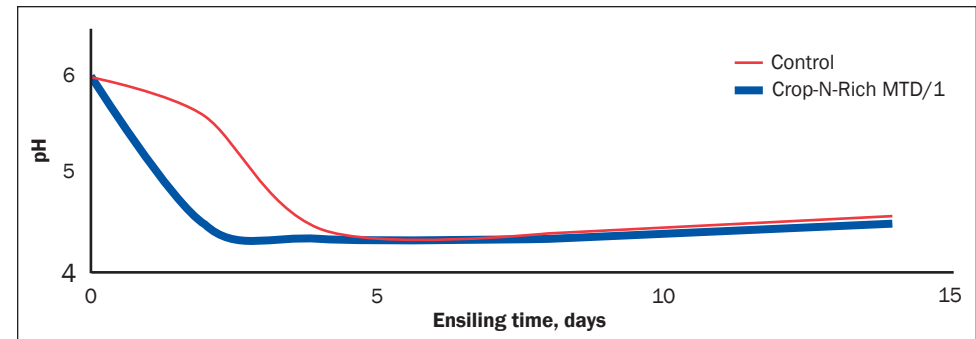
Water-soluble products

- **Crop-N-Rich MTD/1 100:** Treats 100 tons (as-is) of forage
- **Crop-N-Rich MTD/1 500:** Treats 500 tons (as-is) of forage
- **Crop-N-Rich MTD/1 1000:** Treats 1,000 tons (as-is) of forage

Dry, granular product (not pictured)

- **Crop-N-Rich G:** Treats 50 tons (as-is) of forage

### Fast pH drop when inoculating with *L. plantarum* MTD/1 (DM <35%).



Source: Whiter and Kung, 2001, *Journal of Dairy Science*.

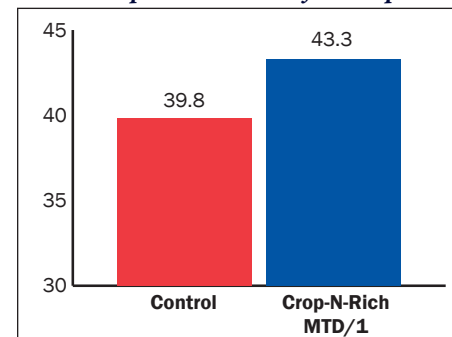
### Average production results from 15 independent dairy cow trials with Crop-N-Rich MTD/1.

	Untreated	Crop-N-Rich MTD/1
Silage DM intake, lb/d	23.6	24.6
Milk yield, lb/d	57.9	60.4*
Milk fat, lb/d	2.18	2.30*
Milk protein, lb/d	1.80	1.87*
Milk lactose, lb/d	2.52	2.50*

\*Statistically significant difference

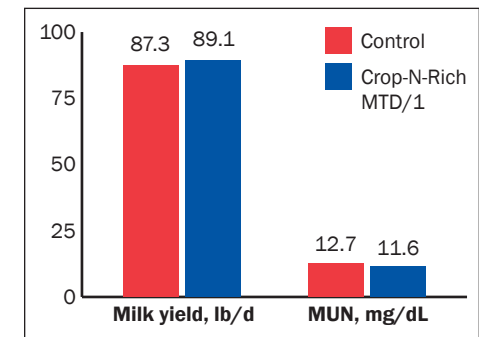
Trials conducted at university and government research institutes in the U.S., Canada, U.K., Ireland, Holland, Germany, and Japan.

### More true protein as a % of crude protein.



Source: Muck, USDA Forage Research Center.

### More milk and lower MUN.



Source: Muck, USDA Forage Research Center.