

Ensuring Uniformity of Additive Application



Dan Dohrmann



Dohrmann Enterprises, Inc.



RECOMMENDED RATES OF PRODUCT PER ACRE**

Crop (See detailed instructions above)	Rate, Average Conditions	Rate, Dry Conditions as in Western States*
Small Grains (Wheat, Barley, Rye):		
Annual Weeds	1/2 to 1 pint	1 to 2 pints
Perennial Weeds	1 pint	1-1/4 to 2 pints
Preharvest	1 to 2 pints	—
Oats:		
Spring	1/2 pint	—
Fall	1/4 to 1-1/4 pint	—
Corn:		
Preemergent	1 to 2 quarts	—
Postemergent	1/2 pint	1/2 to 3/4 pint
Preharvest	1 to 2 pints	—
Sorghum (Milo):		
Postemergent	1/2 pint	1/2 to 3/4 pint





- 200 gram pouch of water-soluble concentrate, treats 100 tons of fresh forage or 66 tons (approximately 1,953 bushels) of high moisture corn
- 1 kg pouch of water-soluble concentrate, treats 500 tons of fresh forage or 333 tons (approximately 9,852 bushels) of high moisture corn

Calibration



3 things you MUST know to calibrate an applicator

1. TIME

How long to load/unload (silage) or make a bale

2. WEIGHT

Weight of silage load or bale

3. APPLICATION RATE

Product application rate per ton

Example: Tons per minute:

20 Ton load takes 5 minutes to fill

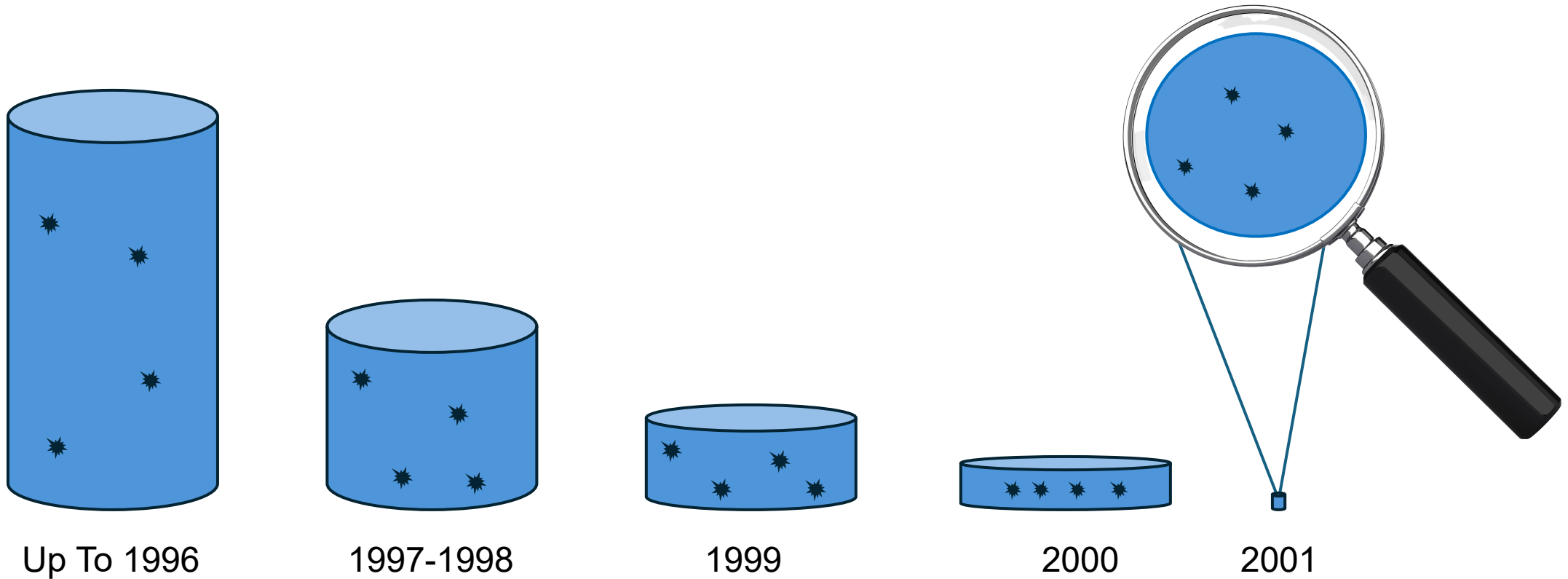
$$20/5 = 4 \text{ ton/min}$$

Example: Tons per hour:

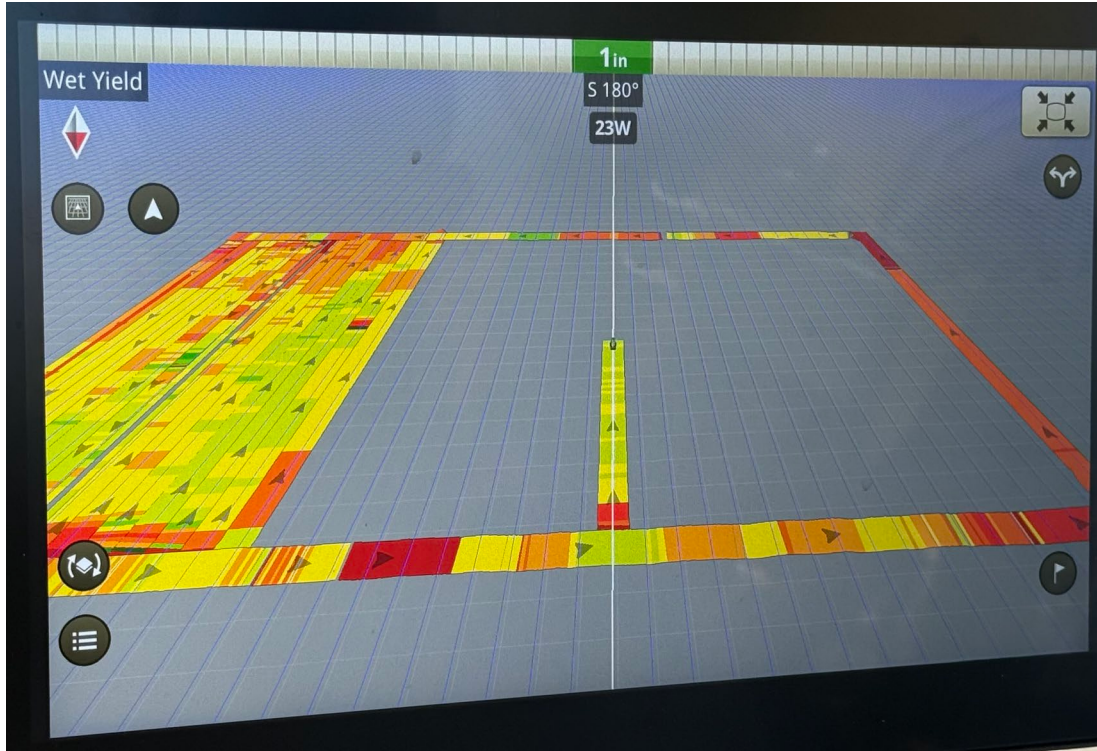
20 Ton load takes 5 minutes to fill

$$(60/5)*20 = 240 \text{ ton/hour}$$

Inoculant Concentration Changes



Introduction of SPFH Yield Monitoring



Photos courtesy of John Deere

Work Totals ?			X
Field Totals	13A	Edit	
Load Totals	Corn Silage		
Custom Totals			
Area	Worked	12.13 ac	
Time	Worked	01:10	▲
Fuel		40.7 gal	
Throughput	Avg	246.06 ton/h	
Cut Length	Avg	0.75 in	▼
Moisture	Avg	67.11 %	

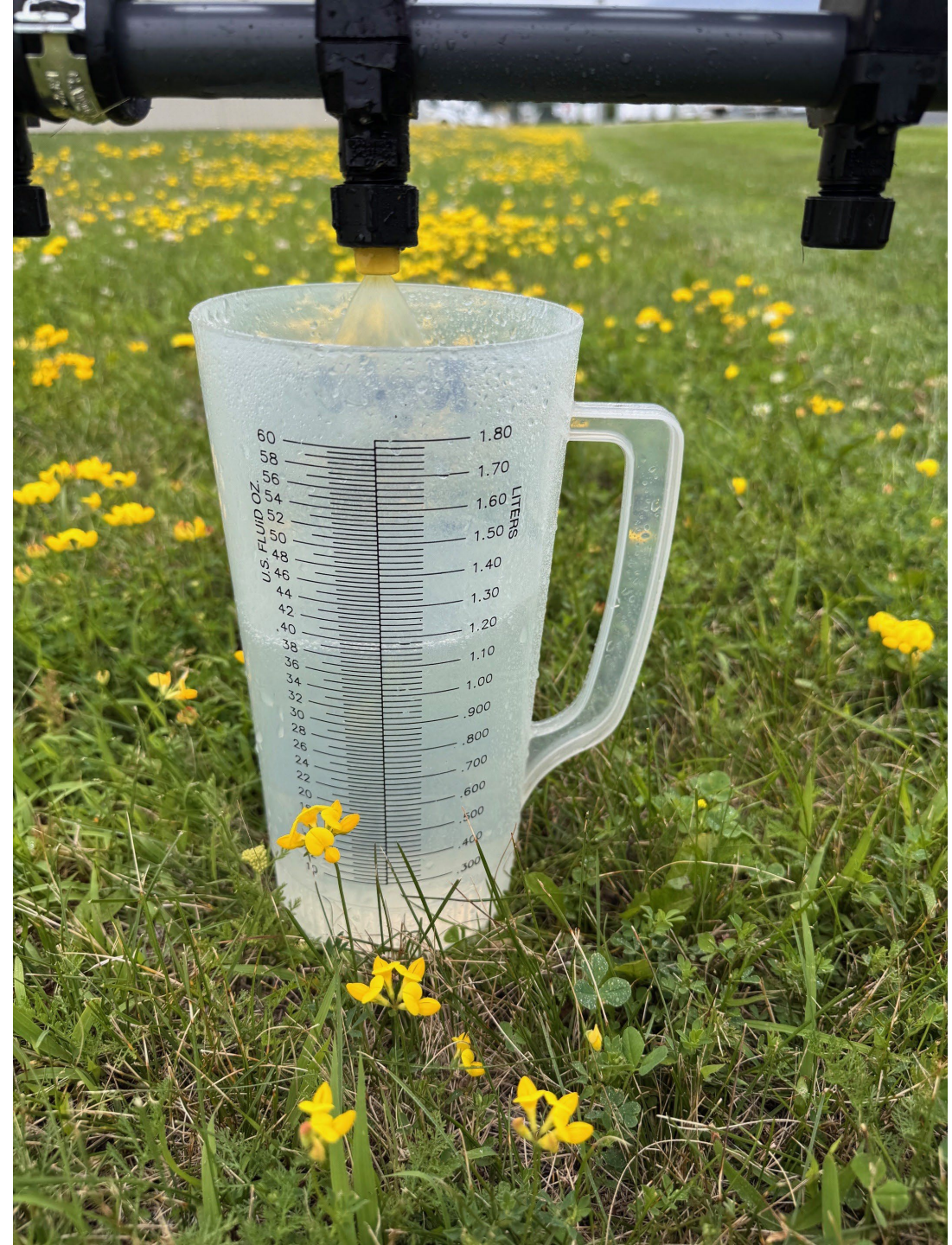


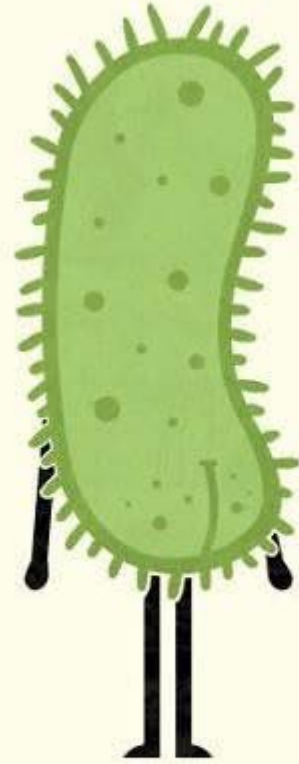
Photo and data courtesy of KRONE N.A.

YIELD DATA	
Total yield	2743.1 t(US)
Average dry matter content	32.6 %
Dry matter	895.3 t(US)

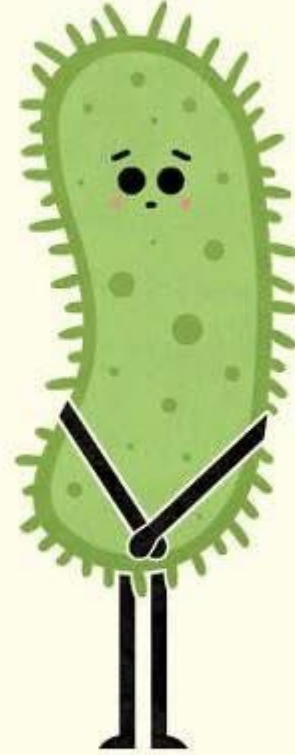
EXTENDED YIELD DATA	
Average moisture	67.4 %
Average protein content	8.3 %
Average starch content	19.4 %
Average sugar content	13.8 %
Average ADF content	27.5 %
Average NDF content	44.5 %
Average raw ash content	5.7 %
Average fat content	2.8 %
Average raw fibre content	20.7 %
Average uNDFom240 content	11 %
Yield / area	26.5 t(US)/ac
Yield / worked area	28.8 t(US)/ac
Dry matter / area	8.6 t(US)/ac







BACTERIA



FRONTERIA

A Clean Environment is a Healthy Environment



$$100\% = 1$$

There is only 1 of you



Questions?