SYNTHETIC FERTILIZER

Nutrients applied at 250 lbs/acre
Basic Blend fertilizer costing \$550.00 per ton:

125 lbs of Nitrogen
62.5 lbs of Phosphorus
62.5 lbs of Potassium
+/- \$76.75 per acre spread
0 lbs Calcium
0 lbs Magnesium
0 lbs Organic Matter
0 lbs Organic Carbons
No Microbial Bacteria

OUR [^]COMPOST

Nutrients applied per acre:

+/- \$55.00* for:

56 lbs of **Nitrogen**

37 lbs of Phosphorus

10 lbs of Potassium

+/- \$32.00* for:

300 lbs of Calcium

+/- **\$10*** for:

10 lbs of Magnesium

(These combined equal a half ton

application of lime)

16% Naturally Occuring Humic Acid with

a 2-3 year breakdown

Also includes:

1500 lbs of Organic Matter

600 lbs of Organic Carbons

Microbial Bacteria

*Costs are equated to synthetic fertilizer and add ons



COMPONENT TOTAL (LBS) FOR 2 TONS FERTILIZER COMPARISON

NITROGEN (TOTAL N): 53.44 LBS LIGHT BUT STEADY N SUPPLY

PHOSPHORUS (P₂O₅): 37.12 LBS COMPARABLE TO A MODERATE P FERTILIZER

POTASSIUM (K₂O): 11.66 LBS MODERATE K SUPPLY

CALCIUM (CA): 280.26 LBS STRONG AMENDMENT FOR CALCIUM-LOVING CROPS

MAGNESIUM (MG): 9.10 LBS GOOD SUPPORT FOR MG-DEFICIENT SOILS

SULFUR (S): 9.30 LBS GREAT FOR SULFUR-DEMANDING CROPS

IRON (FE): 13.80 LBS HIGH IRON CONTENT, USEFUL IN ALKALINE SOILS

ZINC (ZN): 0.58 LBS EXCELLENT TRACE MINERAL CONTRIBUTION

COPPER (CU): 0.44 LBS IMPORTANT FOR ENZYME FUNCTION IN PLANTS



➢ ORGANIC & SOIL HEALTH CONTRIBUTORSMATERIAL TOTAL (LBS) FOR 2 TONS:

ORGANIC MATTER: 1,422 LBS EXCELLENT FOR IMPROVING SOIL TILTH AND WATER RETENTION

ORGANIC CARBON: 712 LBS
FEEDS MICROBIAL LIFE, IMPROVES CARBON CONTENT

ESTIMATED HUMIC ACID: 246 LBS
(BASED ON 15-16% OF ORGANIC MATTER) – POWERFUL SOIL ENHANCER



BENEFITS OF COMPOST

- INCREASE ORGANIC MATTER IN SOIL (3.0-6.0% PRIME FOR AGRICULTURAL PRODUCTION), MANY FARMS AND WORKED GROUNDS ARE SUB 2%
- INCREASE WATER RETENTION BY 16,000 GAL/AC ANNUALLY FOR EVERY 1% ORGANIC MATTER RAISED (1 ACRE FOOT FOR EVERY 20 ACRES)
- PROMOTE ROOT DENSITY WITH HIGH CALCIUM AND MAGNESIUM LOAD
- INCREASE YIELDS IN BOTH IRRIGATED AND DRYLAND
- INCREASES CRUDE PROTEIN LEVELS (INCREASES SEEN UP TO 5% IN CP LEVEL)
- ALLOWS SOIL TO EFFICIENTLY USE SYNTHETIC FERTILIZERS IF NEEDED





Compost Results on Hay Pastures

Results from Wilson County

Hay Farm in Wilson County





- No Compost applied
- Picture taken7/9/2024



- Compost applied at 2 tons/acre
- Picture taken 7/9/2024



Hay Farm in Wilson County (Ran out of compost – 2Tons/Acre)



COMPOST APPLIED AT 2 TONS/ACRE
DID NOT SPREAD SECTION TO THE RIGHT
NOTICE THE COLOR AND DENSITY DIFFERENCE
BETWEEN THE TWO PLOTS

Sorghum Fields in Wilson County





Fertilizer applied, no compost applied Field on second cut

Field composted and on second cut, no fertilizer only compost applied









2" compost on 2:1 Slope – 10 Day Ryegrass Stand. No stand on right. Both Irrigated.



Picture above from Bioresource Alliance 2016 Conference

Compost top dress sinks down through grass for 100% soil contact

Water Retention



Proper applications of compost Compost is able to increase water retention capabilities of soils.

Studies have shown, for every 1% of Organic Matter increased, an additional 16,000 gallons of water is able to be retained (per NRCS Presentation in California).

With a proper compost application schedule, a 160 acre alfalfa pivot, is able to see a 100,000 gallon water retention capability.



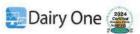
Denser Root Development



To the right, is a picture of two corn stocks. Plant on the right was planted in soil with compost applied, compared to the plant on the left that was planted in soil with commercial fertilizer applied. Observe the expansive network of the root structure. Compost provides the vital Carbon to the soil. macronutrients. and beneficial micronutrients needed to establish strong growth, increased soil health, and water retention capabilities.



Customer Sample ID Post Compost Mid July Per Compost Pre Compost Pre Compost Prorage Use Forage Use Forage Use Forage Use Forage Use Pre Compost Proper Properties Prorage Use Pr	Laboratory number		65162451	65162450	65162449	
Weal/lib Compost Play Compost	Customer Sample ID		Post Compost Mid July	First Cut 2024	Eldest Hay 2023	
Weal/lib Composit Composition Hay Hay Hay Hay	Forage Type		Other WSG	Pre Compost		
% 12.9 11.	Forage Use		Нау	Other WSG Hav	Other WSG Hav	
n Meal/lib 0.56 55.4 59. First Cut applying applying compost compost compost nrise in crude protein levels %.	e Protein	%	12.9		11.2	
n Meal/lib 0.56 55.4 59. First Cut applying applying compost compsosion or compost compsosion or compsistent or com	Detergent Fiber	%	39.7	33.9	30.3	
First Cut after 2024, prior applying compost compost compsos compsos compsos compsos compsos rise in crude protein levels	based on ADF	%	55.4	59.2	62.1	
First Cut after 2024, prior applying compost compsos: Notice the rise in crude protein levels % .55		/cal/lb	0.56	0.60	0.64	
\$ 25.			First Cut after applying compost Notice the rise in crude protein levels	First cut of 2024, prior to applying compsost		
_	te	%	.55	.26	.17	



FORAGE TESTING LABORATORY DAIRY ONE, INC. 730 WARREN ROAD ITHACA, NEW YORK 14850

607-257-1272 (fax 607-257-1350)

|Sampled | Recvd | Printed | ST | CO | | | | 12/18/24 | 12/19/24 | | |

Sling IT Agronomics LLC Sling IT Agronomics LLC PO Box 301 Floresville, TX 78114

ENERGY TABLE - NRC 2001

	Mcal/Lb	Mcal/Kg
DE, 1X	1.32	2.91
ME, 1X	1.13	2.49
NEL, 3X	0.65	1.43
NEM, 3X	0.68	1.51
NEG, 3X	0.41	0.91

TDN1X, % 64

Last cut of the season after applying compost Crude protein levels brought all the way to 15.6% from 11.0% TDN at 64% up from 55.4%

Farmer was able to walk back his synthetic fertilizer usage about 50% on his last cuts

Sample Description	Farm Code	
BERMUDAGRASS HAY	115	30516270
Ii.		1
Analysis F	Results	1
Components	As Fed	DM I
		i
% Moisture	7.9	i
% Dry Matter	92.1	i
% Crude Protein	15.6	17.0
% Available Protein	15.0	16.3
% ADICP	.6 1	.7 1
% Adjusted Crude Protein	Constitution of the last	17.0
Soluble Protein % CP	13.0	38 1
Degradable Protein%CP		68
% NDICP	5.4	2723
% ADF	29.7	5.8
		32.2
% aNDFom	56.8	61.7
% Lignin	3.1	3.4
% NFC	11.5	12.5
% Starch	1.2	1.3
% WSC (Water Sol. Carbs.		6.2
% ESC (Simple Sugars)	5.5	6.0
% Crude Fat	2.5	2.7
% Total Fatty Acids	.97	1.05
% C18:1, Oleic	.04	.04
% C18:2, Linoleic	.10	.11
% C18:3, Linolenic	.23	.25
% RUFAL	.37	.40
% Ash	5.72	6.21
% TDN	59	64
NEL, Mcal/Lb	.52	.57
NEM, Mcal/Lb	.56	.61
NEG, Mcal/Lb	.32	.35
% Calcium	.45	.49
% Phosphorus	.27	.29
% Magnesium	.19	.21
% Potassium	1.83	1.99
% Sulfur	.37	.40
% Chloride Ion	.69	.75
1	1	1
% Lysine	.55	.59
% Methionine	.20	.22
1 1	1	1
Horse DE, Mcal/Lb	.89	.96
i i	i	i
% uNDFom 30hr	i	29.7
% uNDFom 120hr	i	23.7
% uNDFom 240hr	i	21.0
NDFDom 30hr, % of NDF	i	51.9
NDFDom 120hr, % of NDF	i i	61.6
NDFDom 240hr, % of NDF	1	66.0
	;	00.0
1	:	

|Farm|Code| Sample |

|Sample Description

Page 1



BMX COMPOST EXTRACT A BEARD ORGANICS PRODUCT

BMX COMPOST EXTRACT BIOACTIVE BLEND

250 GAL TOTE - SOIL DRENCH OR FOLIAR USE

MICROBIOLOGY SNAPSHOT
BACTERIA: 19,482 MG/G
PROTOZOA (FLAGELLATES/AMOEBAE): 11.76
MILLION/G
NEMATODES (BF): PRESENT
CILIATES & OOMYCETES: NONE
→ HIGH IN PLANT-AVAILABLE NUTRIENTS

→ SAFE, AEROBIC, AND PATHOGEN-FREE

USE GUIDELINES
SOIL DRENCH: AT BASE OR BROADCAST
FOLIAR SPRAY: EARLY AM OR LATE PM

APPLY: • START OF SEASON • AFTER CUTTING HAY
• DURING VISIBLE STRESS

- S FOR RAPID NUTRIENT CYCLING & PLANT HEALTH
- **♥** GREAT FOR PASTURES, GRASS & VEGETATION

Benefits of Using Compost Extracts on Hay and Grass Farms

- Delivers beneficial microbes and soluble nutrients directly to soil and roots
- Enhances soil biology and overall soil health
- Improves nutrient availability and plant uptake
- Supports stronger root systems and plant vigor
- Increases forage quality and yield
- Boosts resilience to drought, pests, and disease
- Easy to apply with standard spray equipment