SYNTHETIC FERTILIZER

Cost of synthetic fertilizer nutrients applied at 250 lbs/acre
Basic Blend fertilizer costing \$650.00 per ton(Summer 2025):

125 lbs of Nitrogen62.5 lbs of Phosphorus62.5 lbs of Potassium+/- \$84.75 per acre spread

0 lbs Calcium0 lbs Magnesium0 lbs Organic Matter0 lbs Organic CarbonsNo Microbial Bacteria

~\$91.00 per acre spread with all other micronutrients and bacterial add-ons

Synthetic Fertilizer = Quick Fix

OUR COMPOST

If Nutrients were bought at a prescription rate in synthetic form they would cost:

- +/- \$37.00* for 56 lbs of Nitrogen
- +/- **\$21.00*** for 40 lbs of Phosphate
- +/- \$9.00* for 10 lbs of Potassium
- +/- \$32.00* for:

300 lbs of Calcium

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

10 lbs of Magnesium

+/- **\$6*** for:

12 lbs of PotAsh

If you applied these nutrients synthetically, you'd spend over \$115 per acre, all of this value is naturally included in our compost — at just \$80–90 per acre.

16% Naturally Occuring Humic Acid

- Feeds your soil biology for 2-3 years

Also includes:

1750 lbs of Organic Matter 878 lbs of Organic Carbons +/- 5-6 Live Soil Microbe Packs Feed Your Soil, Not Just Your Crop.

*Costs are equated to synthetic fertilizer and add ons

Compost = Lower Input Costs | Healthier Soil | Higher Sustainable Yields | Exponential Water Retention



COMPONENT TOTAL (LBS) FOR 2 TONS FERTILIZER COMPARISON

NITROGEN (TOTAL N): 56.88 LBS STEADY N SUPPLY

PHOSPHORUS (P₂O₅): 40.40 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

POTASH (K₂O): 11.88 LBS GREAT FOR WATER REGULATION, INCREASED FORAGE QUALITY, IMPROVED DISEASE RESISTANCE

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: 1758 LBS EXCELLENT FOR IMPROVING SOIL TILTH AND WATER RETENTION

ORGANIC CARBON: 878 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 27,000 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





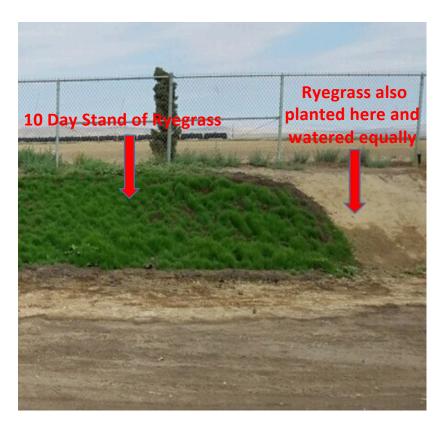
Fertilizer applied, no compost applied Field on second cut

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 27,000 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.



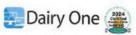
Denser Root Development



To the right, is a picture of two corn stalks. 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.



| Laboratory number | | 65162451 | 65162450 | 65162449 | |
|----------------------|---------|--|--|-----------------|--|
| Customer Sample ID | | Post Compost Mid July | First Cut 2024 | Eldest Hay 2023 | |
| Forage Type | | Other WSG Hay | Pre Compost Other WSG | Other WSG | |
| Forage Use | | | Нау | Нау | |
| Crude Protein | % | 12.9 | 11.0 | 11.2 | |
| Acid Detergent Fiber | % | 39.7 | 33.9 | 30.3 | |
| TDN-based on ADF | % | 55.4 | 59.2 | 62.1 | |
| Net Energy Lactation | Mcal/lb | 0.56 | 09.0 | 0.64 | |
| | | First Cut after applying compost Notice the rise in crude protein levels | First cut of 2024, prior to applying compost | | |
| Nitrate | % | .55 | .26 | .17 | |
| | | | | | |



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

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 BERMUDAGRASS HAY | | e Sample 30516270 |
|--|--------|--------------------------|
| : | | I |
| Analysis F | esults | l |
| Components | As Fed | DM |
| | | |
| % Moisture | 7.9 | 1 1 |
| % Dry Matter | 92.1 | 1 1 |
| % Crude Protein | 15.6 | 17.0 |
| % Available Protein | 15.0 | 16.3 |
| & ADICP | . 6 | 1 .7 1 |
| & Adjusted Crude Protein | 15.6 | 1 17.0 |
| Soluble Protein % CP | |] 38 [|
| Degradable Protein%CP % NDICP | | 1 68 1 |
| 8 ADF | 5.4 | 5.8 |
| aNDFom | 29.7 | 32.2 |
| b Lignin | 56.8 | 61.7 |
| NFC I | 3.1 | 3.4 |
| Starch | 1.2 | 12.5 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 1.05 |
| C18:1, Oleic | .04 | 1 .04 |
| C18:2, Linoleic | .10 | .11 |
| C18:3, Linolenic | .23 | .25 |
| RUFAL | .37 | .40 |
| Ash | 5.72 | 6.21 |
| TDN | 59 | 64 |
| WEL, Mcal/Lb | .52 | .57 [|
| NEM, Mcal/Lb | .56 | .61 |
| NEG, Mcal/Lb | .32 | 1 .35 [|
| Calcium | . 45 | 1 .49 |
| Phosphorus | .27 | .29 |
| Magnesium | .19 | .21 |
| Potassium | 1.83 | 1 1.99 |
| Sulfur | .37 | 1 .40 |
| Chloride Ion | . 69 | .75 |
| Lysine | . 55 | .59 [|
| Methionine | .20 | .22 |
| Horse DE, Mcal/Lb | .89 | .96 |
| uNDFom 30hr | | 29.7 |
| uNDFom 120hr | | 23.7 |
| uNDFom 240hr | | 21.0 |
| DFDom 30hr, % of NDF | | 51.9 |
| NDFDom 120hr, % of NDF | | 61.6 |
| NDFDom 240hr, % of NDF | | 66.0 |
| i | | 1 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

- 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
- Total Nitrogen (TKN): 12.80%
- Phosphorus (P₂O₅): 0.50%
- Potassium (K₂O): 9.41%
- Calcium (Ca): 9.19%
- Magnesium (Mg): 0.27%



Contact us at: Justus James 210-422-0178 Jesse James 210-825-8869

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