



EnSoil Algae at Morales Feed and Supply

Fred Morales- Devine, Texas

Morales Feed and Supply has been adding more and more biological products in the last 5 years to give area farmers more options to grow their crops. We now offer composted pelletized poultry litter, fish hydrolysate, humic acid, bulk compost and most recently EnSoil Algae. In July of this year we started adding EnSoil Algae to our fish and molasses applications on bermuda grass. We applied 2 gallons of fish hydrolysate, 2 gallons of molasses and 8 ounces of EnSoil with 20 gallons of water per acre, this was done in 30 day intervals over a 3 month period.

Based on what we saw this year we plan to apply this same method but start in early spring rather than the heat of the summer. Most of the benefits we saw became apparent after the second application, by adding the fish and the molasses we can deliver food to the life in the soil and use the algae to help carry those microbes into the roots.



Observations:

- Grass was noticeably greener
- Less invading grasses
- Less insect pressure primarily stemming from maggots
- Improved soil structure
- Reduced heat stress on grass in the late afternoons
- 40% reduction in use of synthetic nitrogen (lost 20% of production on first cutting but gained it back over subsequent cuts)
- Increased earthworm population

Takeaways: Observational increase in earthworm activity in the soil treated with EnSoil is a strong indicator of overall soil health improvements. He does not usually see this amount of earthworms in the hot area of Texas at this time of year. He also observed less nutsedge pressure in the EnSoil treated plots.





ENSOIL ALGAE: HAY



"We ended up with 280 round bales on a target of 150. We filled the barn and had a lot of hay to sell. We did not use any fertilizer again this year. Additionally, one of our hay clients asked to buy all of our hay. His horses have been devouring it."

--OUR COWS LLC | VA

"We did two applications of EnSoil [on Alfalfa], one 3 weeks before the first cut and one about a week after the first cut. We ended up getting 6 cuttings this year instead of our normal 4, and it was dry late summer."

--KORNEGAY FARMS | NC

HEALTHIER
FEED FOR
LIVESTOCK

INCREASED
YIELD AND
UNIFORMITY

INCREASED
RETURN ON
INVESTMENT

IMPROVED
SOIL HEALTH



50 days after cutting hay and treating with one application of EnSoil.

"We are very encouraged by what we saw this year with EnSoil. We made three applications on two, 130 acre circles of sorghum. The crop showed outstanding uniformity and health. The circles with EnSoil produced an extra 1.5 tons per acre while reducing fertilizer by 30%. It is a solid return on the investment."

--CRANE DANCE FARM | MI

--WES LUNDEEN | KS

"Billy Creek Ranch is a small cow/calf operation and alfalfa producer near the Crazy Mountains. We conducted a trial of EnSoil on 60 acres of alfalfa. We made three applications of EnSoil Algae between late May and early August. We did not fertilize the 60 acres that received algae. We had a good weather year with precipitation and temperature. The alfalfa treated with EnSoil was more productive than our conventionally farmed ground. We saw an increase of 15 bales per 20 acre section for a net gain of 45 bales. The results are very encouraging."

--BILLY CREEK RANCH | MT



ENSOIL ALGAE: LIVESTOCK & FORAGE



“The only difference in pasture management this year than previous years was the application of EnSoil Algae. The heifers were noticeably fatter, fleshier, shinier, and cycled better. The heifers bred up more than in the past three years. Conception rates were level with a 17 day shorter breeding period. Finally, mineral intake dropped from 19 bags to 1 bag over a 90 day period.” We grazed our cattle on the fields [with 3 applications of EnSoil and no fertilizer] 30 days longer than previous years.”

-- REMINISCE ANGUS RANCH | MT

“Due to the growth and visual appearance of the pastures where EnSoil was applied, the owner and barn manager of The Stables at Iron Horse made the decision to not use NPK in 2023 and will not in 2024, reducing the fertilizer costs by \$492.00 annually. A reduction of the grass seed cost by \$3,211.00 resulted from the initiation of the application of EnSoil. By switching to EnSoil, The Stables at Iron Horse has reduces the annual budget by \$3,700.00.”

--IRON HORSE FARM | SC

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“These cover crop trials are only being irrigated once in late July throughout the entire season. At the end of November, the algae treated field has an average of 5 feet of the vegetation height whereas all other treatments have an average of 3.5 feet of the vegetation height (sheep mob grazed fields do not apply in this evaluation). Against all other treatments, Haney’s analysis shows EnSoil algae treated plots have significantly higher soil respiration, and water soluble organic carbon. Though the oxidized nitrogen group, such as nitrate amount is limited, both organic nitrogen to inorganic nitrogen ratio and organic nitrogen release are higher.”

--DR. YADI WANG | AZ

“After using EnSoil Algae we saw significant regrowth on pasture post-grazing, extraordinary cow health, and our cows chase the sprayer with the Algae”.

--CRANE DANCE FARM | MI



“For the two years of EnSoil Algae use, we’ve not had to deal with any health issues in the herd. They have great looking coats and they are happy and healthy. We are going to include our pasture in the EnSoil program in 2024.”

--OUR COWS LLC | VA



ENSOIL ALGAE: CORN



"EnSoil Algae has been an enhancer for our farm. It has enhanced our soil biology, foliar spray uptakes, and we have seen consistent yield increases versus the check strips. The ROI is there to use algae across all of our acres."

--RUSSELL HEDRICK, JRH GRAIN FARMS | NC

"We applied the EnSoil to our corn right after burn down in June and then again in mid July. We had excellent precipitation this year and we believe the rain plus the algae made a huge difference. We harvested 19.5 tons of silage corn on ground with a proven yield of 8 tons and a previous best of 12 tons. The yield on the millet was also outstanding. We certainly got a return on our investment and we will look to expand our use of EnSoil next year."

--CLETUS MILLER, MILLER ANGUS RANCH | ND

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Jay put 43 units of Nitrogen on all his corn. He saw an increase of 26 bu/acre on his corn where he used EnSoil. In this photo the lighter tint on the control field (no EnSoil) shows a nitrogen deficiency at V10 and was corrected with additional synthetic nitrogen.

--JAY LANE, BAYSIDE FARMS | NC

"I inoculated the seed with EnSoil Algae immediately before planting my corn. I also implemented some test trials in the starter fertilizer. I could not witness any difference in those trials to the plants, nor was there any measurable difference in the root growth at the early stage that I checked. I also applied on 40 acres a rate of 13 oz per acre as a foliar at V6 to V8. There was a noticeable difference in the growth of these plants compared to the 40 acres beside them. The stalks at harvest time were thicker and the leaves remained greener for about 3 days longer than the 40 acres of non-treated as we suffered no rain and high heat for the months of July and August and into September. I believe the treatment at that stage helped the plants maintain longer through that significant stress. The yield on the treated acres was 9.7% higher than non-treated acres."

--STEVE TUCKER, TUCKER FARMS | NE