

AGGRAND® NEWS

Save Big With AGGRAND

"AGGRAND is more economical than anything around and it's organic."

AMSOIL Dealer Robert Benson of West Milford, W. VA. has been using AGGRAND products for 11 years and he has seen spectacular results. In his first AGGRAND year alone, he saved over \$6,000 by using AGGRAND Natural Fertilizer and Liquid Lime on his 100 acres. The product also yielded more hay than ever before.

"AGGRAND more than doubled my hay crop."

"Chemical fertilizer prices keep climbing," said Benson, "so I decided to try AGGRAND. I ordered 10 gallons of Natural Fertilizer and some Liquid Lime. It really worked. In the previous year I had 103 1,000 lbs. round bales. After using the AGGRAND products I got 218 1,000 lbs. round bales."

Benson has over a decade of AGGRAND experience, so he's had some time to see how well the products work. "Of course your results will also depend on ground quality and how you've maintained the land, but over the years with AGGRAND I've gotten more hay per pasture and the cows go through fewer magnesium blocks. I've gone down to about half the magnesium blocks I used to go through. The cattle just aren't eating as many blocks. They only eat what they need, and if they get enough in their diet they'll quit eating magnesium blocks. The AGGRAND Liquid Lime label says it has magnesium, so that must be the reason they stopped eating so many magnesium blocks. Thanks to AGGRAND, my cattle are already getting enough magnesium in their diet. Altogether, AGGRAND Natural Fertilizer and Liquid Lime save me about \$5,000 a year on average."

Once he started using it and seeing how well it worked, he began telling other people about it. He became an AMSOIL Dealer and uses his experience with AGGRAND to sell it to customers. If anyone doubts the power of AGGRAND, he simply asks,



My customers use AGGRAND and they think it's great.



"Why would I still be using it after 10 years if it didn't work?"

Benson used to put 30 head of cattle on 150 acres. Thanks to AGGRAND products, he was able to raise that to 50 head of cattle on the same number of acres.

"I actually get that much more hay from each pasture with AGGRAND," says Benson. "You can use AGGRAND for \$6 to \$11 an acre, compared to using 19-19 chemical fertilizer when you might pay about \$16 per acre. Big savings! AGGRAND can save you as much as \$10 per acre and it will not burn vege-

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Organic vs. Chemical Lawn Care

Why Organic Fertilizers Outperform Chemical Fertilizers

Traditional lawn fertilization practices certainly cause surface and groundwater pollution, but banning the application of certain nutrients is not the answer.

The application of both nitrogen and phosphorus can be problematic. Chemical fertilizers that are highly concentrated cause water pollution even when they are applied at the recommended rates if exposed to heavy rain or excess irrigation too soon. However, many homeowners do not calibrate their fertilizer spreaders or just throw fertilizer on their lawns by hand, which is the most likely cause of most of the nutrient loading in lakes.

The real answer to this dilemma is to start using more sustainable practices and natural products. The recycling of nutrients through the return of grass clippings (using a mulching mower) stimulates soil biological activity and supplies at least two pounds of nitrogen per 1,000 square feet per year without causing any pollution. The application of low levels of natural forms of nutrients such as fish, kelp, humates and corn gluten meal stimulates the proliferation of microbes and earthworms, which readily fix these forms of nutrients before they ever get into lakes. As the creatures in the soil multiply, they excrete nutrients and die or are eaten and digested and excreted



by other organisms, which releases nutrients slowly as plants need them.

An actual comparison of two types of fertilizer, one that is natural and one that is chemical, illustrates the difference. One homeowner applies 30-5-10 fertilizer to his lawn at 20 lbs. per 5,000 square feet and his neighbor applies one quart of (2.3 lbs) of 4-3-3 fertilizer per 5,000 square feet. The natural fertilizer puts .0184 lb. and .013 lb. of phosphate per 1,000 square feet into the soil. The naturally fertilized lawn is more drought and pest resistant and uses less water so it needs to be irrigated less often. The natural fertilizer stimulates biological activity, which creates stable soil aggregates enabling the roots to go deeper and become better developed, keeping nutrients in the root zone. The chemical fertilizer puts 1.2 lbs. of nitrogen and .2 lb. of phosphate per 1,000 square feet into the soil (65 times more nitrogen and 15 times more phosphate than the natural fertilizer). The chemically fertilized lawn is water hungry and needs constant irrigation because the grass relies on the chemical to supply the nutrients. The chemical toxifies the soil, inhibiting biological activity, which results in compacted soil and an unhealthy root environment. Most of the nutrients are free to flow over the compacted surface into the surface water or past the restricted root zone into the ground water. Research shows that from 92 to 96 percent of high analysis chemical fertilizers are not taken up by plants.

Fertilization in itself is not inherently bad, but the type and amount of fertilization is the key to producing healthy lawns and eliminating water pollution. Remember, nitrogen and phosphate are present in all ecosystems, but nature knows how to hold them and make them readily available when they are needed. We need to learn how to work with nature, not against it.



AGGRAND Q&A

How long does it take for *dry* lime to work?

Since water is required for lime to react with the soil, effects of a lime application will be slower in a dry soil. It often takes a year or more before a response can be measured even under perfect conditions. However, a response may be observed within weeks of the application when soil pH is extremely low. It is important to apply lime immediately after the growing season or crop removal to allow lime to react, correcting soil pH before the next growing season.

The reactivity time also depends on the type of lime used. Liming materials differ widely in their neutralizing powers due to variations in the percentage of calcium and/or magnesium. Usually, liming materials with a high calcium carbonate equivalent, or CCE (the percentage of usable lime in a liming product), tend to neutralize soil acidity faster than those with a low CCE. The coarseness of the liming material will also influence how fast the lime will react. In other words, the finer the liming material, the faster it will influence the soil.

AGGRAND Liquid Lime is very fine lime held in suspension so it works immediately when applied to the soil. AGGRAND Liquid Lime can work alone or in addition to a regular liming program.



How often should lime be applied?

The answer to this question depends on a variety of considerations. A soil with a low CEC (cation exchange capacity; the capacity of a plant and soil to exchange nutrients) does not require a lot of lime to correct soil pH but may need to be limed frequently. A soil with a high CEC requires a large amount of lime to initially correct pH, but it may be several years before another lime application is needed due to its

high buffering capacity. As fertilizer is applied to enhance forage or crop production, the removal of essential plant nutrients from the soil also increases. As a result, lime may be needed more frequently to replenish removed nutrients. For example, the rate of nutrient removal from a pasture being hayed is much greater than a pasture being grazed. Therefore, the hay field may need to be limed more often.



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tation. There's no leeching and no runoff and it won't pollute rivers. You can put it on whether it's wet outside or dry. You can even put AGGRAND Liquid Lime on in the rain and you can't do that with bagged lime. AGGRAND is a lot easier to store and handle. I would say my animals are healthier. Usually when I turn cattle out I can run them in the field for 30 days before rotating. One of my fields has 14 acres and I can run 15 head on it, which is pretty good. My customers use AGGRAND and they think it's great. The 19-19-19 chemical fertilizer has gone from \$200 to \$310 a ton and that doesn't count the cost of applying it.

"AGGRAND Natural Fertilizer and Liquid Lime save me about \$5,000 a year on average."

And I'd use a quarter of a ton per acre. Lime pellets cost \$125 a ton and I'd use three tons per acre. With AGGRAND my cost for liming and fertilizing 100 acres is only \$900. When I was going to start using it, I talked to county agents and they said it won't work. After my first year with AGGRAND I bought a lifetime Dealership, it was that good. I went back to the county with all the facts and figures from using AGGRAND and they just shook their heads. They couldn't deny how well AGGRAND worked. The 19-19-19 is a fertilizer flash in the pan, but over the long run natural fertilizer is much better all around. Saving



thousands of dollars a year is big money, especially with the small profit margin any farmer has these days. Last year I completely sold out of my AGGRAND inventory. It's a quarter of the cost of the chemical fertilizers. AGGRAND is more economical than anything around and it's organic. Those are the two main things I really like about AGGRAND."

Write to AGGRAND with your testimonials and suggestions. Email us at info@AGGRAND.com send to: **AMSOIL INC. Attn: AGGRAND Department AMSOIL Building Superior, WI 54880 or fax us at (715) 392-5225 or (715) 392-5267**



"I formulated AGGRAND fertilizer, so I know it is second to none."

Al Amintuzio President and CEO, AMSOIL INC.

Our Address

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