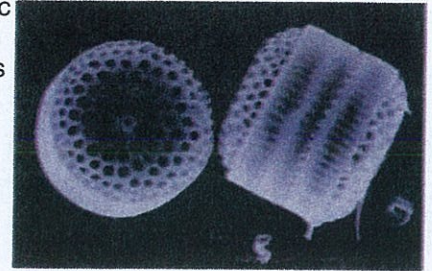


# What is Diatomaceous Earth?

Millions of years ago, in all the waters of the earth, billions of microscopic one-celled plants, called diatoms, took the minerals from the waters and created a protective shell for themselves. The fossilized skeletal remains of these diatoms accumulated in layers on the lake and sea floors forming deposits of what we know today as diatomaceous earth. Referred to by many names (diatomite, silicon dioxide, it is called Kieselgur in Europe and fossil shell flour in the United States, etc.) diatomaceous earth is often called simply DE.



DE deposits have been mined for centuries and have been used in hundreds of industrial and agricultural applications. There are two primary types of diatomaceous earth deposits - saltwater and freshwater. Saltwater DE is commercially processed in the United States; its primary application is a filter aid. Beer, wine, fruit juices, and vegetable oils are filtered through the diatoms' multitude of pores, acting as microscopic sieves. Swimming pool and fish tank filters also utilize this material. Because saltwater DE has higher crystalline silica content from a process called calcining (being exposed to high degrees of heat), it is not appropriate, and in fact dangerous to use in ingestible applications such as grain storage and as an animal feed additive.



Freshwater DE [what is in our OLS tubs] is mined from ancient lakebeds, primarily in Nevada and Arizona, and is ideal for agricultural uses because it typically has low crystalline silica content (amorphous), and is highly absorptive. Documented use of diatomite by the Chinese for pest control dates back almost 4,000 years. Because of its ability to kill insects, DE has been used in grain storage for generations. As awareness of and concern about chemical pesticides grow, non-toxic, natural, diatomaceous earth is enjoying renewed attention and interest. As well, many farmers and

ranchers tout DE as the natural anthelmintic (de-wormer), and are finding great success by adding it to their livestock feed to keep their goats, sheep, cattle, horses, pigs, and fowl healthy and clean without the use of chemical drugs, from which a resistance may well develop. Quoted from [www.aboutde.com](http://www.aboutde.com)

We have seen incredible benefits from using the DE in our livestock feed tubs the past few years. It naturally increases livestock weight gains just from preventing hindered activity and excess movement because of the irritation of biting flies. The animals will continue grazing, spread out and do not bunch up trying to swipe flies off one another. The DE passes through the animal and works in the manure of the animal to destroy the fly larvae. As the larvae moves it is lanced open by the tiny shells, dehydrates and dies. The DE works to destroy the same fly species as feed through IGR chemicals.



It cuts the cycle of life for ALL types of flies that lay their eggs in the manure. The DE tubs contribute a substantial portion of your ranch FCM - fly control management. You will however see some flies that come from other sources such as mud, rotting grain, stagnant water, decomposing organic matter, wet hay bales or dead animals.



The DE also works in the digestive tract of the animal to destroy worms. The DE works by lancing open the worm's bodies; they then dehydrate and die. It again stops the worm's reproductive cycle. It works over a period of time however and as some species of worms must travel out of the organs and tissue to reproduce or lay their eggs in the intestines. That is when they encounter the DE in the digestive tract. If you suspect your livestock have a bad worm infestation start with an applicable chemical wormer first. Then feed the DE Tub in suggested consumption amounts continuously. For best results use the DE Tub all year long.



After DE

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Our OLS - Orwig's Livestock Supplement tub processing method allows for incorporation of much more DE in our tub than any other competitors, up to 15%. Feel free to send in your comments and testimonials to us.

[www.newconceptnutrition.com](http://www.newconceptnutrition.com)