Flash Flocculation

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Recent *Ground Work* articles talked about **soil tilth** being the backbone of Biological Farming, and about the importance of **calcium** to help produce it. Also that calcium in the soil solution begins the tilth-building process by **flocculating clays** and reducing compaction. We discussed how, when, and where bulk calcium sources like lime, gypsum, and dolomite should be used to help acquire a "tilthier" soil. Now we'll discuss another useful calcium source that will spark flash flocculation.

Flash Flocculation? This term, coined by AgriEnergy Resources, describes a process where a relatively small amount of soluble calcium is delivered to the soil and reacts very quickly with surface clays, taking them from a dispersed state to a flocculated state. When that happens we have the building blocks in place for tilth to be created.

It is best if the calcium can be delivered ahead of rain or irrigation. Definitely add some **SP-1™** and/or **Residuce®** (AgriEnergy biological products). Then fuel the biologicals with soluble carbon. The microbes will literally produce the glues needed to hold newly flocculated soil particles together in new aggregates ... tilth! (Having something growing on top of this is even better.)

Practi-Cal is AgriEnergy's flash flocculating product. It does not completely replace the need for adding lime or gypsum, but it can very quickly change the surface properties of soils allowing better water infiltration, reduced crusting, and so forth.

Basically, **Practi-Cal** softens the ground. Softer ground means better seed beds when planting annuals, and better seed beds often mean better yields. **Practi-Cal** is fabulous when used on hay ground (or any kind of ground for that matter) where animal and vehicle traffic, or even excess rain, has packed the soil.

Amend your soils with lime, dolomite, or gypsum when they need it and when you are able to do so. ***For those times when you want a spark, Flash Flocculate with** **Practi-Cal***.