



# HOG ODOR CONTROL WITH EM



Hog operations are often faced with the problem of dealing with odor coming from urine and fecal matter. Concentrations of ammonia, hydrogen sulfide, and other noxious gases cause stress on the animals and the workers. A stressful environment results in animals that are less productive and more susceptible to sickness. In a confined area, levels of ammonia and hydrogen sulfide can also become toxic to workers and animals.

The application of EM, a liquid microbial inoculant, on a regular basis will not only stop putrefaction of wastes, it will also eliminate the stress causing odors and toxic gases inside the barns. This can directly affect the health of the entire operation and relations with neighbors.

Over time with regular applications, an economic savings may be seen from increased production. However, the greatest benefit will be relations with neighbors, preventing fines and bad press.

## METHODS FOR PITS

1. Make Activated EM (AEM) according to directions on the label.
2. When pH drops below 3.8, AEM is ready to apply.
3. Saturate flooring in facility with a dilution ratio figured off of the total volume of the pits. (example: the manure pit holds 1 million gallons. The application ratio should be figured at 1,200 gallons of AEM for a 3-5 month application).
4. Drain pits every six months and saturate empty pit with a 1:50 solution of AEM before putting back into operation.

## ALTERNATIVE METHOD

1. Same as above
2. Same as above
3. Spray 1:50 dilution of AEM and water on flooring.
4. Take same ratio as above, but spread out the total amount of AEM over a 6 month period and pour in directly to the pit from above.
5. Same as #4 above.

## METHOD FOR LAGOONS

1. Make Activated EM (AEM) according to directions on label.
2. When pH drops below 3.8, AEM is ready to apply
3. Calculate the volume of the lagoon and apply AEM at a rate of 1: 10,000 on a monthly basis to control odor, encourage the growth of beneficial bacteria, and begin digestion of wastes.



*Nursery unit in Costa Rica using EM*



*Clean slotted flooring using EM, Japan*



*Finishing unit, applying EM, Costa Rica*

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