

**REGARDING THE USE OF PIT-KING®,
WE OFFER THE FOLLOWING GUIDANCE:**

- When using Pit-King®, the pit/lagoon/slurry should contain at least 6-8 inches of water on top of the solids.
- Suspend the Pit-King® treatment in lukewarm (85°-100°F) water (non-chlorinated¹) prior to use. Let stand for 20-30 minutes and then apply to the waste (manure pit, lagoon, poured into dairy barn gutter, poured through slats of swine confinement, etc.). The suspension of Pit-King® in warm water helps to ensure ingredient activation and increases distribution of those ingredients among the manure waste.
- The recommended initial “shock” treatment of Pit-King® is 1.0 lb per 50,000 gallons of manure.
- After this initial “shock” treatment and the digestion process has started, continue a maintenance treatment schedule of once or even twice per month in order to keep the digestion of solids process going strong.
- The amount and frequency will be dependent on the amount of waste entering the pit.

Gallons of Manure	Initial Shock Rate Pit-King®, lbs.	Pit-King® Canisters Needed*	Maintenance Rate Pit-King®, lbs.	Pit-King® Canisters Needed*	Cost of Pit-King® per Gallon per Month [^]
100,000	2.0	0.8	1.0	0.4	\$0.001
250,000	5.0	2	2.5	1	\$0.001
500,000	10.0	4	5.0	2	\$0.001
1,000,000	20.0	8	10.0	4	\$0.001

* Pit-King® comes in 2.5 lb canisters

[^] Cost based on maintenance rate

** Maintenance rate estimates:

- Feedlot cattle produce 9 gallons of manure/head/day or 270 gallons/hd/month

- Dairy cows produce 16 gallons of manure/head/day or 480 gallons/hd/month

- Finishing hogs produce 1.2 gallons of manure/head/day or 36 gallons/hd/month

- Feedlot cattle: 1 canister of Pit-King® to treat the manure produced by 1,000 cattle/month

- Dairy cows: 1 canister of Pit-King® to treat the manure produced by 500 cows/month

- Hog confinement (quad barn): 1 canister of Pit-King® to treat 6,900 head/month

- Adjust the treatment amount and frequency with consideration to historical build-up of solids and amount of waste entering the pit. For example, if hay or bedding, disinfectants, detergents or excessively hard water is entering the pit, then treat heavier with Pit-King®. We would suggest at a 1.5x rate. In this example, then 1 canister (2.5 lbs) of Pit-King will treat the manure production from 330 dairy cows per month.
- For pits with more than 3 feet of manure solids, triple (3x) the initial “shock” treatment and double (2x) the treatment amount for the next 2 months of treatment as well in order to enhance solids reduction in this type of scenario.
- Within the first week of the initial treatment, foam and/or solids should appear and float on the top of the pit. This means that the product is working as designed and intended. It is breaking down those subsurface solids.
- Solids will take time to breakdown and remove. For best results stay on a regular (e.g. monthly) treatment program.
- Pits should be pumped at least 2 times per year (e.g. spring and autumn).
- Digestion activity is decreased during colder (winter) periods. Pit-King® is most active when the temperature is in the 50-110°F range. When manure temperature falls below 50°F, Pit-King® activity will continue, but at a slower rate.

¹ If only treated (chlorinated, peroxide-treated, etc.) water is available for suspension of Pit-King®, then add 1 tablespoon of Pit-King® into the 4-5 gallons of chlorinated water, mix and allow to react for 1-2 minutes. This will dechlorinate the water. After the 1-2 minutes, then add the remainder of the Pit-King® canister to this water and apply to the manure accordingly.

**A MANURE TREATMENT
YOU CAN ACTUALLY
GET PUMPED ABOUT**



(800) 435-9560

AGRIKING.COM





WHAT IS PIT-KING®?

Pit-King® is a manure digestant product designed for farm manure pits, lagoons, slurry stores, feedlots and pens. It contains a patented and proprietary blend of enzymes and microorganisms that help break down manure solids produced by dairy cattle, beef cattle and hogs.

FEATURES	BENEFITS
Multi-enzyme blend	Rapid breakdown of manure solids and undigested substances (i.e. fibers, starches)
Enzyme-producing microorganisms	Continued decomposition of manure solids in pits, lagoons and slurry stores
Viable microorganisms	Increase manure solid decomposition and reduce commonly associated odors (i.e. ammonia)

CLIENT TESTIMONIALS

"First time in 17 years we have not had a lot of solids floating in lagoon."

-- North Indiana farm

"...had results in the first week of application. The manure smelled different and was very easy to pump."

-- East Wisconsin farm

"After just two weeks and during cooler temperatures, the Pit-King treated manure pits took three hours less time to 'stirate' compared to the untreated pits."

-- Northeast Iowa farm

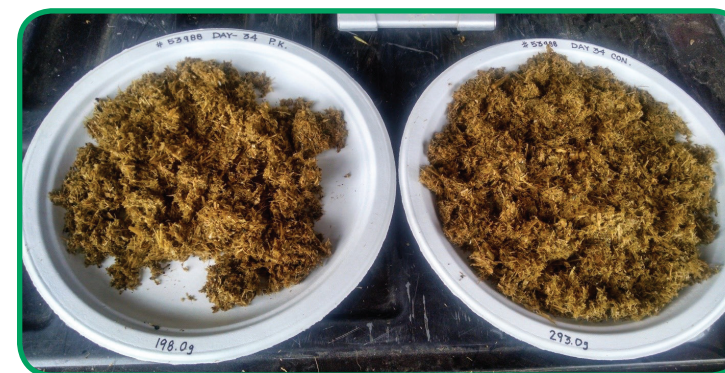
"The manure coming out of the pit is much more uniform. I'm excited about applying it to fields because it will be a consistent spread."

-- South Wisconsin farm

ON-FARM RESULTS



At a large Washington dairy farm, Pit-King® was added to the lagoon in late May. Within one month, the farm noticed considerably fewer floating manure solids. The lagoon also became much easier to manage and odor levels saw a steady decrease in that time.



In another trial in Washington, five gallons of manure treated with Pit-King® was compared against an equal amount of an untreated control. After 34 days, Pit-King® helped liquefy 95 grams of manure solids compared to the control -- **that's a 33% decrease in solids in just over one month.**

A trial was conducted on a large Wisconsin dairy to measure the effect of Pit-King® on manure solids compared to manure treated with a competing product and calcium nitrate, in addition to an untreated control. After 60 days, the Pit-King treated manure produced significant reductions in manure solids compared to its counterparts.

MANURE SOLIDS TRIAL - WISCONSIN

% manure solids remaining after 60 days

