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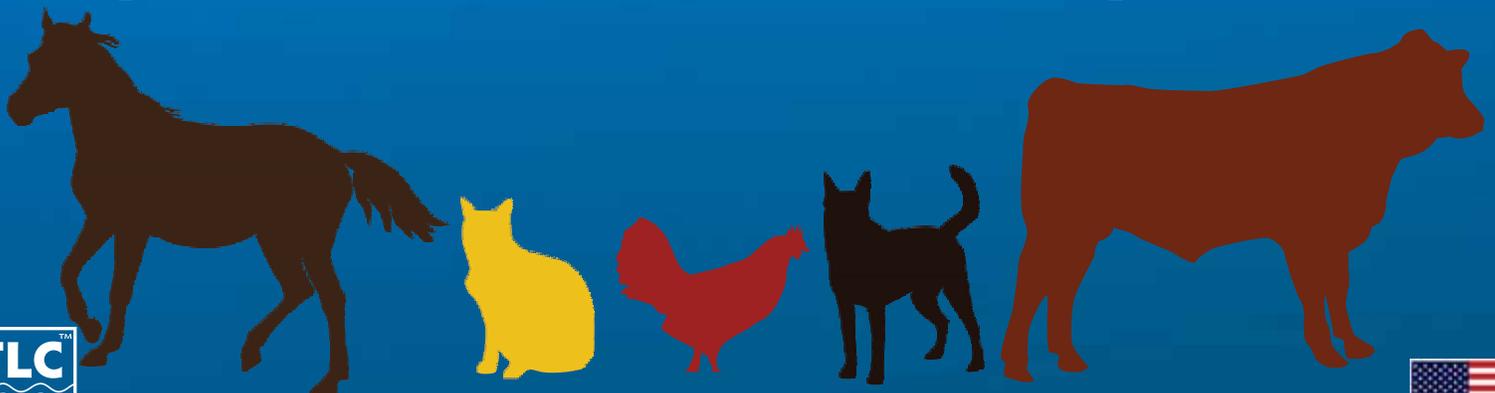
FarmPond Treatment

Gold Standard

User Guide

- ✓ Cleans and Clears Up Water
- ✓ Destroys Foul Odors
- ✓ Reduces Sludge and Muck

Safe for people, livestock,
pets, fish, wildlife, and plants.



TLC Products Cleveland, OH 44135 www.tlc-products.com Proudly Made In U.S.A.



Why does my lake or pond get out of balance?

With so many variables affecting your pond, choosing the correct treatment options can be confusing. This FarmPond Treatment maintenance guide brings you easy-to-read information on common issues, helps you understand the factors that contribute to them and explains how FarmPond Treatment tackles each problem.

Ponds and lakes are very sensitive to outside influences, especially the quality of water flowing into them and the nutrients and organic material being washed or blown into them. The ideal pond has clear cool water, low nutrient levels and lots of large leaved aquatic plants for shade. However, over time the gradual build-up of organic matter and nutrients washed into the pond can lead to too much plant or algae growth. This bloom dies and rots, depleting oxygen in the water and killing fish. This process is called eutrophication and is bad for the health of the pond. Eutrophic ponds have cloudy and dark colored water with low oxygen levels, thick stagnant sediments and lots of algae.



Poor Water Clarity

Water clarity problems occur whenever you have a combination of pond water, sun, N (nitrogen) and P (phosphorous).

Poor clarity is the most common problem for pond and lake owners. This unwelcome situation is not only unsightly but negatively impacts pond performance and depletes valuable oxygen.

FarmPond Treatment is a powerful, two component biological clarifier that beautifies pond water, digests excess bottom sludge, and eliminates foul pond odors.

Two common pond clarity problems are shown below:



Poor Clarity Throughout the Water Column. This unsightly condition extends throughout the water column. Proper use of FarmPond Treatment will restore water clarity and beauty.

Unightly Surface Clarity Problems. Regular use of FarmPond Treatment can reduce surface clarity problems, however, the benefit may take multiple product doses. See dose chart and solution for severe problems in following pages.



Sludge & Odor

Almost all ponds, particularly older ponds, have sludge build up. Sludge is the organic sediment located at the bottom of the pond.

Several problems happen when sludge accumulates. The pond may have plenty of oxygen in the water near the top of the column, but in the sludge at the bottom of the pond, there is very little oxygen. Disease-causing, odor-causing "anaerobic bacteria" live in the sludge at the bottom of the pond.



- Pond surface
- Odor caused by sludge build-up
- Sludge build-up at the bottom of the pond

The worse the sludge build up, the greater the risk of fish disease, and odors. Foul pond odors (usually thought of as "rotten egg smell") come from the sludge on the base of the pond.



FarmPond Treatment Solution

The live bacteria in the FarmPond Treatment (kit consists of liquid concentrated bacteria for fast action, and powdered, slow-release EcoSocks for long-lasting sludge digestion. FarmPond Treatment application to your pond will restore water clarity, digest bottom organic sludge, and eliminate foul pond odors!

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FarmPond Treatment: A Two Part Lake and Pond Treatment System

The FarmPond Treatment kit is a combination of ultra-concentrated liquid PondPerfect plus powdered, slow release, EcoSocks:



i EcoSock

EcoSocks are freeze-dried, sludge reducing bacteria and food-grade bacterial nutrients. When placed into water, the EcoSock continuously produces sludge reducing, algae-fighting bacteria for a full month.



Liquid PondPerfect

PondPerfect liquid is specially formulated for use in fresh water ponds. PondPerfect is super-concentrated; with an ideal mix of nitrifying and denitrifying bacteria. When used with EcoSocks, PondPerfect dosing is performed only once a month.



The complete FarmPond Treatment kit: PondPerfect (liquid) and EcoSocks (powder) are 100% live, natural, non-toxic, non-chemical products which are used in conjunction to eliminate excess algae blooms, pond odors, excess sludge, and string algae in lake and ponds, (decorative, recreational and fisheries).



i Following the guidelines in this manual will ensure optimum results from use of the FarmPond Treatment Kit. You will know what types of ponds to treat and what results to expect. You will know the timetable for positive results to occur, and you will obtain the greatest value from use of FarmPond Treatment.



Please review the following sections:

- A** How to Determine Dosing for a Specific Pond
- B** How to Apply FarmPond Treatment
- C** Timetable of Expected Results
- D** Compatibility of FarmPond Treatment with Desirable Aquatic Plants and Fish
- E** Storage and Shelf Life



A. How to Determine the Correct FarmPond Treatment Dose For Your Specific Pond

Follow these guidelines to make sure you get the best results and value from FarmPond Treatment. These three things are most important:

1. Know the surface area of your pond (see chart below for dose)
2. Double the dose for severe problems
3. Apply most of each dose where problems are most severe



Dose FarmPond Treatment once a month based on the surface area needing treatment:

Acres	Sq Metres	FarmPond Treatment Water Quality
0.25	1,012	1
0.50	2,023	2
0.75	3,035	3
1.00	4,047	4
1.25	5,059	5
1.50	6,070	6
1.75	7,082	7
2.00	8,094	8

Note: One FarmPond Treatment Water Quality Kit contains one gallon of PondPerfect plus one EcoSock

1

The dose is based on the surface area having problems. Once the surface area is known (acres), the number of units of FarmPond Treatment is taken from the chart (1 box per ¼ acre per month)

2

Double the dose for ponds with severe, long-standing problems.

3

Apply the product where problems are most severe



1 FarmPond Treatment Dose Based on Surface Area

The FarmPond Treatment dose is one box (Kit) per month (which means gallon of liquid, and one EcoSock) for every ¼ acre of pond surface area. Dose PondPerfect and EcoSocks at the same time, once a month. PondPerfect provides maximum rapid action, while EcoSocks work throughout the month to maintain the required level of activity.

Apply most of the PondPerfect where problems exist. Simply throw the EcoSock where the problems are greatest. Remember, the dose is based on the surface area of the pond having problems.

2 Double the Dose for Ponds with Severe Long-Standing Problems

Some ponds that have had severe problems over the long term should be treated initially with a double dose.

It may take 2 to 4 double treatments to bring your pond to your satisfaction, but you can switch to the standard chart dose once you see progress (as early as one month of double treatment is often all that is needed).



3 Apply Most of the FarmPond Treatment Where Problems are Most Severe

In nearly all lakes and ponds the majority of the unsightly problem occurs along the shore line, or at one end of the pond or the other. Sludge build up, however, may be present throughout the pond base, so it is difficult to precisely assess where the problems originate from without doing extensive and expensive testing. Our experience shows that dosing around the pond periphery and in problem areas is completely suitable. The natural diffusion of liquid PondPerfect from the shoreline to the center of the pond will be assisted by normal wind action and natural mixing. In the vast majority of ponds, simply dose the liquid PondPerfect around the shore of the pond, adding more product where problems are most severe. Similarly, toss the EcoSocks into the pond where the odor or known sludge problems are most severe. This approach will minimize labor and produces excellent results nearly all of the time.



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B. How to Apply FarmPond Treatment

As shown in Part A. (see previous page), for most ponds, simply figure out the acres of the pond that needs treatment, then use the Standard Dose Chart to determine how much FarmPond Treatment you need to add.

DOSE HIGHER IN THESE TWO SITUATIONS:

- For extra deep ponds (ponds that are more than 12 ft average depth), increase the Standard Dosage by 25%.
- Double the dose for severe existing problems, and switch to the standard dose once the pond is improving.

When Should You Begin and End FarmPond Treatment Application?

It is best to wait until the pond is at least 50° F or warmer before beginning with FarmPond Treatment. Dosing should continue throughout the spring, summer and autumn. Once the water temperature drops below 50° F, there is little value in continuing treatment. You can begin treating a problem pond at any time, assuming that you consider the temperatures noted above. You can begin dosing before a problem begins to prevent it, or dosing can begin after even a severe bloom yet solve the problem (though this may require a double dose for a few months).



How Often Should FarmPond Treatment Be Added?

For best results add according to the proper dose once a month, and every month. Extra dosing, or double dosing, cannot hurt but can only improve results when severe problems exist.

How Should PondPerfect Liquid and Powdered EcoSocks Be Applied?

Shake the bottle before use. Dose the liquid PondPerfect around the periphery of the pond where the problems are worst. For best results mix the proper dose of PondPerfect with several times that volume of pond water then distribute this mixture around the pond periphery.

Apply most of the liquid to the zones where the clarity, sludge or odor problems are most severe. It is often best to choose 4 or more dosing points (more dosing points for larger ponds) Otherwise, let normal wind action and natural mixing distribute the product.

Similarly, throw the EcoSocks into the pond where problems are most severe. Repeat monthly during typical warm sunny seasons.



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C. Timetable of Results

Existing Problems: When trying to eliminate an existing water clarity problem, the FarmPond Treatment dose rate should be doubled until the problem is solved, then the dose is returned to the standard rate. **The double dose rate for a problem pond is usually needed for about 2 to 4 months, but can be switched to the standard dose in as little as one month.**

Often switching to a double dose rate is effective for dealing with short-term water clarity problems that occur during unusually hot or sunny periods. FarmPond Treatment is a natural, biological means of pond treatment.

FarmPond Treatment does not poison anything like chemicals do (e.g. copper sulphate). Therefore do NOT expect the instant results that you may get with harsh chemicals. It will take FarmPond Treatment a month, and possibly 2 to 4 months in severe situations, to really make a change. While FarmPond Treatment effectiveness is more gradual than typical chemical treatments, FarmPond Treatment is actually beneficial for water quality, fish, wildlife and your turf (if irrigating). FarmPond Treatment will not harm any desirable plants and FarmPond Treatment is completely non-toxic.

Odor Control is the Quickest Result.

Any odor problems will dissipate within one or two weeks of the first application. Rotten egg and septic odors will be eliminated and if anything, only a natural earthy smell will be present.

Water Clarity Improvement Timeline

Zones of water clearing should be evident in the vicinity where you apply FarmPond Treatment within the first week or two. Within 1 or 2 applications, clarity around the edges of the pond will improve. That is a sure sign of progress.

After one to two months of treatment, it should be obvious that the water clarity is improving, whether we are talking about the water column or surface clarity. At this critical point, if progress is not yet satisfactory, continue the elevated dose for another month or two. By application 4, the pond should certainly be clear unless there is an unusual or unexpected aquatic condition or high rainfall.



Sludge Reduction

Sludge build-up comes from dead leaves, clippings, wildlife droppings and the remains of past blooms. Sludge build-up is the main cause of bad odors and increases the potential for fish disease. The FarmPond Treatment Kit will decrease the sludge build-up in any pond by 25% or more in any season. This benefits pond owners thousands of dollars in dredging expenses. Take note of the sludge levels in any lake receiving FarmPond Treatment, as this benefit alone will be well worth the cost of treatment.



D. Compatibility with Fish and Aquatic Plants

FarmPond Treatment is completely compatible with fish and desirable aquatic plants.

A version of FarmPond Treatment is extensively used in commercial fish farms and aquariums. FarmPond Treatment is actually beneficial to fish in your pond as it removes toxic ammonia and nitrite that cause fish stress and mortality.



Some users ask if FarmPond Treatment has a negative effect on desirable aquatic plants such as hyacinths, water lilies and hornwort. The simple answer is that FarmPond Treatment is completely compatible with and even beneficial for all desirable aquatic plants.

E. Storage & Shelf Life of FarmPond Treatment Treatment



Store at room temperature for best results. Avoid storage at prolonged high temperatures above 110 F (a few days does not damage the product, but return to room temperature for storage as soon as possible. Shelf life is guaranteed 1 year beyond purchase. Avoid freezing solid (freezing solid distorts the bottle shape, but once thawed, the liquid product is still good and active, and the powdered EcoSock is not affected.



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Real Results from Use of FarmPond Treatment

The following photos show several months of progress during FarmPond Treatment use in an 8-acre lake. Note drastic improvement from May through July, when problems would always get worse, not better!



May 4, First Dose. Algae Heavy Along Shore



May 4, First Dose. Severe Algae to Windmill



May 18, Second Dose. Algae Turning Brown



May 18, Second Dose. Algae Turning Brown



June 26, Third Dose. 85% of Algae Eliminated



June 26, Third Dose. Clear Water to Windmill



July 10, Fourth Dose. Crystal Clear Water



July 10, Fourth Dose. Crystal Clear Water

