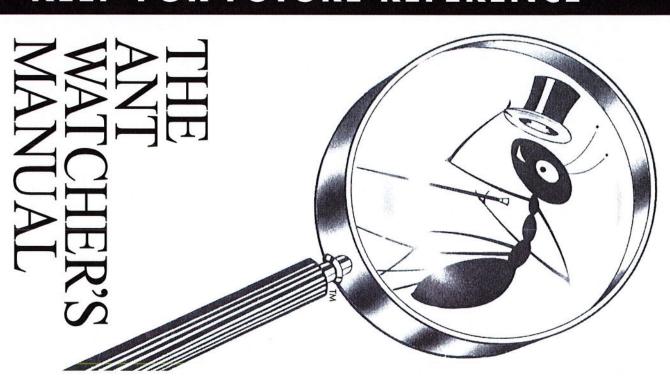
Caution: Never handle or touch ants directly. They can bite or sting to defend themselves.

KEEP FOR FUTURE REFERENCE



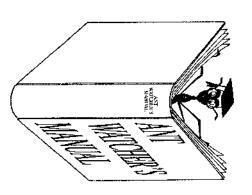
Uncle Milton Industries, Inc.

Uncle Milton Industries, Inc.
P.O. Box 6281 Thousand Oaks, CA 91359 USA
www.unclemilton.com

© 1956, 2012 UMI. All rights reserved. Ant Farm®, Uncle Milton® and all related names, logos and designs are trademarks of UMI.

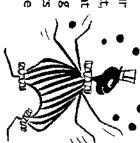
Table of Contents

I8	To re-stock your Ant Farm
17	For further reading
15	Ant questions and answers
	Why watch ants?
13	Ants are sociable
13	Ants are athletes
13	Ants are hard-working
12	Ants are loyal
	Long live the queen!
	Ants are sanitary
I0	Ants are farmers
I0	Ants don't like earthquakes!
9	Don't bake your ants!
9	They like to drink, too
8	Ants love to eat
7	Don't start a war!
6	To stock your Ant Farm
4	To start your Ant Farm
3	Ants are fun!



Ants are fun!

From the minute you stock your Ant Farm® brand live ant habitat, a new world opens up in front of your eyes... a busy, bustling world that shows you that ants are a lot like the nicest people you know!

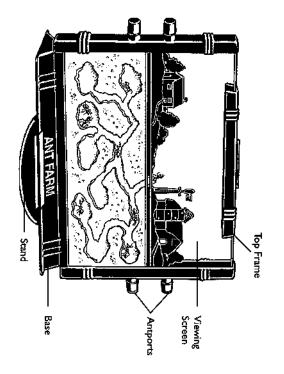


Many of the most famous people in the world have been ant watchers. Lord Avebury, a world-famous scientist, once wrote: "When we consider the habits of ants, their social organization, their large communities, elaborate habitations, and their roadways... they have a fair claim to rank next to man in the scale of intelligence."

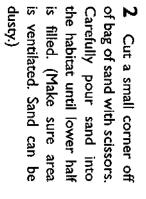
And that's true! As you study your ants, you'll find that they plan their world very much as we plan ours. They engineer their homes and highways carefully. They seem to consider artistic form as well as function in their building. The highways and tunnels in the ants' world are always arranged in smooth curves and their hills are well balanced.

This little book tells you all about your Ant Farm brand habitat... how to stock it, how to feed the ants and how to take care of them. Read every word carefully, for if you treat your ants properly, they'll let you in on their secret world and keep you fascinated.

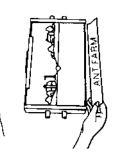
To start your Ant Farm

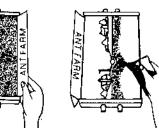


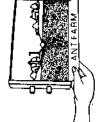
Turn Ant Farm upside-down and remove base and top frame. Attach base to the other end to help keep the habitat upright.



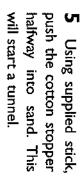
3 Replace the base. Make sure it snaps down on viewing screen securely.

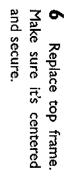




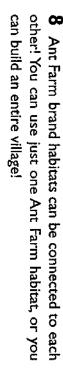


about 2 oz. (1/4 cup side-up. Slowly pour in soggy. Don't worry if a be evenly damp but not ing water. Sand should or 60 ml) clear drinklittle water leaks out Turn Ant Farm right



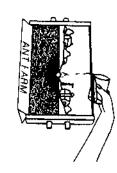


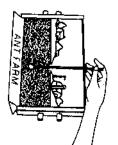


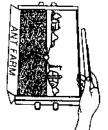


end onto an Antport of another Ant Farm habitat. attach end tightly onto an open Antport. Attach other To connect, cut Antway tube to desired length and

unused Antports tightly capped. Antway tube from one side to the other. Keep any If using just one Ant Farm habitat, you can attach the







To stock your Ant Farm

and handling fee is required). Farm certificate included in this package (note: shipping You can order live Harvester ants online using the Ant

will receive by mail a supply of Harvester working ants on the certificate included in this package or go to www.unclemilton.com/antsonline. After ordering, you (note: we cannot supply queens or male ants). To order Harvester ants online, follow the instructions

within a safe range of 34° to 85°F (1° to 29°C). If you sent when the temperature in your area is consistently make their long journey in the mail. Your ants will be the weather is too hot or too cold for ants to safely do not let the ants stay long in there. It may be too have an outdoor mailbox, watch for the mail and 10 days, but shipment may be postponed for a while if Normally you can expect to receive your ants in 7 to hot or too cold for them!

ensure that all the the same colony." ants will be from the same time to must be sent at "All orders

> Ask your mail carrier to watch for it and bring that is possible. it to your front door if

with them. Before you directions that come be sure to read the When your ants arrive,

minutes. This makes them less active and much easier it in the refrigerator (not the freezer) for about 15 start working to put into the habitat They will soon "warm up" to open the tube of ants, put

top frame. ants in and replace the tube of ants so it fits carefully squeeze the tic tube of ants and dows. Shake or tap the between the clear wincarefully open the plas-

defend themselves." can bite or sting to ants directly. They "Caution: Never handle or touch

accustomed to their new home. the habitat in a dark place overnight. They'll soon become If the ants seem lazy the first few hours, don't worry. Put

Don't start a war!

colony, they will fight with with one another in the same While ants are very loving



are always friends. from the same colony, and ants from the same colony Well, if we send you a supply of ants, they will all be will start a war. How can you tell if ants are friends? ants from another colony. Never mix your ants, or you

a big group of ants all place. When you find ants, be sure they all come from the same If you gather your own

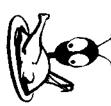
> "Never mix ants from different colonies."

without touching them. Remove the habitat lid, carefully shake the ants in, and replace the lid. trees or elsewhere. Let the ants crawl up onto a stick will be more likely to dig tunnels than ants that live in large ants that cannot escape through the air holes Otherwise, they would probably be fighting! Look for working together, they are from the same colony Try to find ants that are nesting in the ground – they

Ants love to eat

Remove the top frame,

tiny meals. So don't overfeed your ants! ber they are tiny creatures and they eat Ants eat almost anything, but remem-



probably already have in your kitchen. Once a week, bread. remove the top frame and drop in just a tiny crumb of You can give your ants food that you

too much food in your habitat, it will spoil and make it messy. This is not good for the ants. You can give your ants some variety. However, if you stuff

feed your ants." "Never over-

enough for a whole week head-size piece of apple is It's sweet and juicy. A pin-One food ants love is fruit.

with water. bit of hard-boiled egg white, or a drop of honey mixed Other foods ants like are two or three birdseed, a tiny

Ants also like leaves, especially leaves from fruit trees. You'll enjoy watching the ants nibbling on the leaf Take a 1/4" piece of leaf, break it up and drop it in.

They like to drink, too

You should not give the ants too much water either. Just add a few drops of clear drinking water every other day.

Be sure to keep the sand slightly moist, but not soggy. Try
not to get water on any bits of food
inside your habitat.



You might see some droplets of water (condensation) on the inside of the windows. If this happens, stop watering for a few days.

Don't bake your ants

When the sun shines directly on your habitat, it becomes an oven, and the ants can die from the heat.

Don't leave them outdoors in icy weather.

Ant Farm in direct sunlight or near other sources of heat, such as a lamp, stove or fireplace."

doors in icy weather.

Ants can't stand extreme
changes in temperature. Room temperature of 65° to
75°F (18° to 24°C) is fine.



Ants don't like earthquakes!

Be kind to your ants. If you shake your habitat, or turn it upside-down, you will wreck their tunnels and bridges. They take great pains building their little world, and if they are disturbed too much they will die.

"Keep your
Ant Farm in a
quiet and stable
place. Don't shake
or tilt it. Treat

"Keep your
Place the hab
dy shelf or ta

Place the habitat on a sturdy shelf or table that won't get bumped or shaken. Quick, sudden movements will collapse the tunnels and kill the ants.

your ants with

respect."

Ants are farmers

In some types of ant colonies there are farmer ants. They actually have farms! They gather tiny seeds from the fields, bring them home, and plant them underground. Soon the seeds sprout. The farmers bite off the green sprouts and carry the seeds out into the sun to dry. The seeds turn into sugar... and everyone knows how ants love sugar!

Some ants raise and till fields above ground. They plant small crops and keep them neat and well-tended. Then the farmers carefully harvest the seeds and store them in underground storage chambers.



There are even ants that keep "cows." The cows they keep are really aphids — tiny insects that live on the juices of plants. Inside the aphids, these juices turn into a sweet liquid, similar to the grass

ers to gather up. ants stroke it, and it drops its honey dew for the milkhoney dew. When an aphid is full of honey dew, milker real cows eat turns into milk. The aphid "milk" is called

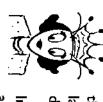
their crops. to prevent growth of other sorts of plants among very good farmers. They weed their mushroom beds off so they won't grow too large. The ants are always The bits of mushroom grow, then the ants snip them bits of mushroom in their deepest, dampest caves Other farmer ants raise mushrooms. They plant tiny

Ants are sanitary

gathered up and hauled away to the trash from the colony is carefully have a place that they use as a "dump site." All rest of the colony. this dump, usually away from the themselves clean and they will not tolerate litter. They Yes, ants are very neat and tidy creatures. They keep

Long live the queen!

The idea that all ant colonies have only one queen is not always true. There are often two or dozen. large colony, there may be as many as a three queens in a colony, and in a very



In the mating season, the young queen and prince ants crawl out into the sun.

die. The queens, however, have scarcely begun their Both have wings, and they fly high into the air to mate lives' work The princes have now finished their job, and they soon

> colony. She digs a tunnel with a small chamber at the explores until she finds a good place to start a new care, feed and clean her. the queen will do nothing but lay eggs. Nurse ants will end, and there she lays her eggs. For the rest of her life After a young queen rests, she sheds her wings and

of her life, the queen will hatch only workers. An ant and some will hatch princes. Others-most of them in queen may live for as long as fifteen years. fact-will hatch workers. Indeed, for the first few years Some eggs the queen lays will hatch other queens

Ants are loyal

ever it takes to help each other. creatures on earth. They do what-Ants are among the most loyal



others. They're always ready to help and work as a ship by watching ants. First, ants respect the rights of We can learn some wonderful lessons in good citizetheir colony. team. They share their food and get along very well in

underground colony, grain by grain! seemingly overwhelming projects as creating an entire complete the tunnel. This is how ants accomplish such message that it needs help. Other ants come help When an ant begins to dig a tunnel, it sends out the

Ants are hard-working

Ants are very strong for their tiny size. Some can carry loads that weigh fifty times more than they do. That would be like a human being lifting a car!



Each ant has a special job to contribute to the colony. There are, for example, nurse ants that take care of the young and the sick. Builder ants dig tunnels and make bridges. There are forager

ants that find and store food for the rest of the colony. There are also guard ants that protect the colony from invasion. Finally, there are undertaker ants that carry the deceased away to a graveyard for burial.

Ants are athletes

Ants have many activities. They work hard but they also find time to play.

Ants go for two special kinds of sports — soccer and wrestling. Sound crazy? Well, watch your ants! Drop one tiny round birdseed into your ant habitat. Soon you'll see ants rolling the seed toward each other, or passing it from one to another just like a game of soccer!

If you see two ants in your habitat appear to be fighting, they're having a wrestling match. Ants in the same colony never really fight, but they enjoy bumping each other. Sometimes they have a "no-holds-barred" match!

Ants are sociable

Often you'll see a whole group of ants gathered together. They'll tap one another on the heads with their antennae and act as though they are having a meeting or a party. Ants are very social creatures!

Why watch ants?

For thousands of years, philosophers and scientists have been fascinated by these industrious little creatures. Nobody knows who the first ant watcher was, but the Bible tells how King Solomon — who was



certainly one of the wisest men of the ancient world — advised his subjects to "Go to the ant... consider her ways and be wise!"

History is filled with famous ant watchers. Pliny, one of the greatest naturalists of ancient times, wrote about the wisdom of the ants. Aelian, a Greek philosopher, noted that ant colonies and ant highways were very much like the famous buildings and roads of Greece and Crete.

Ants are even found in Greek mythology. An ancient myth tells how one son of Zeus, the leader of the Greek gods, turned himself into an ant to make a good impression on the lady with whom he was in love.

So you see that ants have been highly regarded for their perseverance, teamwork, and industriousness for centuries. In fact, ants are among the most successful of all living things. They have been around since prehistoric times!

An Ant Farm is much more than a toy, it provides a lesson in nature study and is a good example of community cooperation. Ant Farm habitats can be found in classrooms throughout the world, from nursery schools to colleges!

As you observe your ants, you'll become acquainted with the different members of the colony. You'll discover

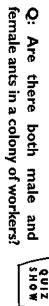
leaders and which ones prefer to follow which ones are smart, which ones aren't, which ones are

care of your ants. These little creatures work very citizens in their community. Watch them — a magnifying glass will come in handy hard, they are very loyal to the colony, and are good — and you'll soon realize why you should take good

Ant questions and answers

Ant Farm habitats? Q: Do the ants get enough air in

vide sufficient air through tiny vents. is scientifically constructed to pro-A: Yes. Your Ant Farm brand habitat



queens and die soon after mating male ants are the "princes." They mate with the A: No. All worker ants are sterile females. The only

Q: When will I receive the ants I ordered?

package stay in there for long! It may be too cold or and 85°F. If you have an outdoor mailbox, don't let the best to order when the temperature is between 32°F delayed because it is too hot or too cold for them. It is after we receive your order, sometimes they are too hot for them. A: Normally, we mail ants to you within 3-6 weeks

tubes without dying? Q: Can the ants travel by mail in their small

of old age or other weakness. However, we ship you of a shipment die in transit. After all, some ants die travel. Our experience proves that only a few ants out more than enough to work your Ant Farm habitat. A: Yes. Our ants are packed in special containers for

Q: Can I use my own ants?

that cannot go through the air holes. (See pages 6-7.) adjusted to your climate. Just be sure to find large ants hood may thrive even better since they are already A: Yes, you can. In fact, ants from your own neighbor-

Q: How long do ants live?

over-watering or under-watering. shorten their lives. The biggest causes are overfeeding months. However, fumes, heat or improper care can care and conditions, they should live one to three A: A worker ant can live about one year from birth The ants we send are adult workers, so under proper

Q: How do ants communicate?

the head with its antenna. attract the attention of another ant, it taps that ant on them all standing around in a group as if they are having a get-together! Sometimes, when an ant wants to mones). They often hold meetings and you will see A: Ants communicate mostly by odors (called phero-

Q: Do ants work all the time?

each other. Sometimes two or three of them will roll a they rest. When they play, they bump and wrestle with bit of grain or sand around like a soccer ball. A: No. They work very hard, but they also play, and

Q: Do ants take baths?

A: Yes. They are very clean. Watch them closely and you will see the ants rubbing their faces with their legs. They are cleaning themselves when they do that.

For further reading

If you want to know more about ants, you'll find many interesting books in your public library. You can also find Frequently Asked Questions under the "Support" tab of our website.

To re-stock your Ant Farm

Welcome your new ants to a clean home. Take your Ant Farm apart and sift the sand clean for dead ants, leftover food bits, etc., or use new sand. Rinse the plastic parts under water and blot dry (don't wipe — the clear parts can scratch). Replace the clean dry sand into the reassembled units and moisten as directed on pages 4-5.