

A VIEW OF PROGRESS

Sometimes we read or hear a statement like: "I am not an ecolonist -I believe in progress," Since I am as much of an ecolodist as I know how to be and I believe in progress I have puzzled over such statements. The conclusion I come to is that my definition of progress differs from the writer or speaker.

When a society stops burning leaves and starts composting them -I think that's progress.

When young mothers stop paying twice as much for inferior canned beby food and start growing and making their own -I think that's progress.

When the chemical industry some time ago started pushing the sale of a by-product called lead arsenate to combat insect problems -that was not progress. But now that greater problems have been created because of our government, heaving now curtailed or prohibited their use, we are beginning to turn to natural and biological controls. That's overdue progress, and individually a status of the status of

on cures and starts concentrating on prevention—that is propress.

Mhen agricultural experts decided all the soil needed was a dose of 10-1010 that was not progress. Now we are recognizing that there are many more
chamical elements necessary to plant growth and that we really know very
little about agronomy—that's progress.
If the soul approach is a second to the soil that the second the second propress is the second propress. The second is a second propress of the usDA take over huge
treats wealth absentees with the encouragement of the usDA take over huge
treats exceed a second propress. And when the second propress is the second propress of the second propress of the second propress of the second propress of the second propress. And when
some farm workers are dumped into urban areas—that is not progress. And when
soil california grower can say: "I don't care what's on it, or what's the
right shape and the right number, we will pack it in a box and the box will
pass the inspector "that is not progress. But should the USDA revert to what
it was created to do—help the small family farmer—that would be progress.
And most of all—when our government and corporations chose to ignore a
free, safe, infinite and clean source of power, the sun, and concentrated our
billions on developing expensive, finite, dirty, dengerous nuclear power—
that was the most insane non-progress of them all.

GROWING SOIL

The most basic requirement for a good garden is good soil, "Ithout it, a cardener may work long and hard and still get poor sesules."

Sometime of sesules at an organic carden of long Sometime of sesules at an organic carden of long standard soil." They may not realize that a gardener of ten needs to "grow" good soil before he can grow good plants.

In our first year of gardening at Jonsalvania, the soil was hard, packy clay. Each year it has become darker in color, lighter in texture, more frieble, more water absorbent, higher in plant nutrients, more easily applications of shredded leaves, manure, green manure, rotted hay, compost, organic mulches, wood ashes, and whataver other organic materials are available. Similar results may be achieved on poor, sandy soil by similarly increasing the humus content.

The heauty of all this is that it is not difficult to find laroe quantities of organic material coing to master absorbent will add quantities of its content of the material will add quantities of its and manuscurus, possess and trace elements is a little effort to find it and bring it home. Depending on the sorter the material will add quantities of its own and sorter the material will add quantities of its own and the trace elements that it is not difficult to so the soil, set of the standard soil, after a few years, and the trace elements so that the addition of increasingly expensive and scarce chemical fertilizer hecomes unnecessary.

If you class to make the transition from a chemically extinction and was the organic material the addition of increasingly expensive and scarce chemical fertilizer high in ditrona, or a fan organic fertilizer high in dit

lime and nitrogen especially may be a herishing confused to start but with with Stautis mulching system. But is a dalishbiral young lade and seem and suther a separation between the start is a dalishbiral young lade and seem and suther a separation between the season start is seemed by the season start is seemed by the season season seemed by the season season season seemed by the season sea

sendings as they grow taller and as the season crows warmer. Her results have been excellent and her system fits her needs very well. It does not, however, allow enough versatility for more active gardeners. For instance, I like her system for respherries, but not for lime beens, or peopers.

Last year there was a part of our carden that we did not need. So, rather than have it crow to weeds, we sowed buckwheat on it and plowed it under with the rest of the garden residue in the fall. Interesting the carden residue in the fall. Interesting buckwheat her strip on which moticeship show the content of the carden residue in the fall. Interesting the content is that, in the strip on which noticeship show the content of th

ANIMAL LIFE IN THE GARDEN

A garden should be teeming with both plant and enimal life, the large majority of creatures is and ground a gardenized either heardess or due ye more nought has a few and a summer of my cardenian children. It is not seen that the seen and the seen all the seen and the seen all the seen all the seen and the seen all the seen and the seen all the seen all the seen and the seen all the seen all the seen and the seen all the seen all the seen and the seen all the seen all the seen and the seen all the seen all the seen and the seen all the seen all the seen and the seen all the seen all the seen and the seen all the seen all

aphids and meal-whome.
Praytom mentids are a particular friend to man. They seem to concentrate on man's enemies and leave his allies alone.
Errthworms shound in an ornanic marden. They areate and fattifies the soil, break down ornanic matter, and are these waiting when you want to no lishing.
The cost preschold insect in our mardens is the lady bestle. In mid-aument it is hard to lind a constalk that is not harborine two or three of them. They destroy the enem and young of aphids, scale, and other softhedied hand-incedim insects.

The many notice inclinate to think of wasen as friends, from many not inclinate to think of wasen as friends, for many notice inclinate to think of usen a section of the horse set was the section of the horse set. Another worket them to the fourier food the horse set. Another worket help keep sphids under control. The formal Tribonames was a has been introduced into cotton fields to help control the hellworm.
Insects, too, are of neat value as pollemizers. These include butterflies, ants, beetles, and of course bees include butterflies, ants, beetles, and of course bees include hutterflies, ants, beetles, and of course bees include hutterflies and around the narden include birds; swallows, thrusher, chickaduss and nuthatches keep ants under control; bluchirds and warblers control weavils; scale insacts are devoured by our native sparrows; phoches, flycatchers and swallows control moths, Leainoppers are relished by the warbler family; and so on.

Another nice fellow in our carden is the toad. A toad eats insacts, most of which are harmidl, and criticularly likes cutworms, slues, and anuesh burs. Toads even make nood pats, will not ive you warts, are remarkably intelligent (for a toad) and provide us with a beautiful sonessound. Can you say as much for a can of polson agray?

Our lawn and lower carden have suffered some

Sonn-sound. Can you say as much for a can of poison sp:
Our lawn and flower narden have suffered some
damane from moles, so it might be hard for me to make
a case for him as a respectable citizen. At least he
does dostroy many harmful crubs, and when he has cleaned
out an area, he moves on.
A case in point is the sawfly which destroys spruce
and pines and whose larvae are controlled by moles. The
island of fewfoundland could not grow evergreen trees
hecause of the sawfly, and the absence of moles, so
actually imported and released moles which now cover
the island. This has permitted the successful introduction of evergreens.

Crows are often considered pests. A group of New







ANIMAL LIFE IN THE GARDEN CONT.

ANIMAL LIFE IN THE GARDOLT CONT.

England sheep rarmers once formed a successful crowexterminating cooperative because they thought crows
were killing new-born lambs. The following year when
their pastures dried up they discovered that crows were
the natural control for grubs that ate the grass roots,
Mithout the crows they were soon without pasture.

One last friend I will mention is the skunk, Naturalist Ernest Thompson Seton once touted the skunk as
replacement for the eagle as our national emblem.
Tongue-in-cheek to be sure, But Seton reasoned that the
skunk is more of a friend to man, eating harmful grubs
and field mice, Further, he has stripes like our flag,
is fearless, never fires unless fired upon, and always
emerges the victor by a nose.

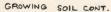


Backyard Livestock: How to Grow Meat for Your Family

book entru...one which is definitely as good in general as (Belanger's) and even superior in certain ar Excellent general coverage of how to select and raise poultry, rabbits, sheep, goats, pigs, and veal calves. Also goes into raising their feed to keep costs low, de-tailed plans for building shelters for each, butchering, tanning, and extensive veterinary info." -- Earthbooks Lending Library.

"Maybe Steven Thomas should have called this excellent book, 'Economical Backyard Livestock,' because his focus is not only on how to care for the animals from which you take your food, but on the most economical way to raise them -- and that information is necessary unless homestead stock are to be just an expensive hobby." --Organic Gardening and Farming.

288 pp. Paper \$5.95; Cloth \$8.95. Add 50¢ for shipping. THE COUNTRYMAN PRESS, TAFTSVILLE, VERMONT 05073



Does your village pile its leaves in a dump? If so, the under layers will likely be black and crumbly nature's own compost, Do you have a compest pile? If so, your favorite barber may be glad to save out hair which would otherwise be sweet up and thrown away. It a good addition to a compost pile, or a good mulch nigh in nitrogen.

Do you have access to a woods? A few bushels from the forest floor would make a good mulch under young avergreens or other acid-loving trees or bushes. For plants that like a high PH add lime when you mulch with forest topsoil.



by doug jones WATER, WEEDS, WORMS, AND MULCH

The practice of mulching, or covering the soil, is being increasingly recognized as a valuable tool by vegetable farmers and gardeners alike. Some people use it primarily as a weed control method, others value it's shility to retain moisture, but it does both of these things and much more. Sometimes, however, mulch can have a negative impact, so let's examine its functions and learn how to use it right.

It is important to realize that Nature keeps most of her soil covered with decaying organic matter from previous years' growth. When soil is bared to the elements, it can easily gain or lose too much moisture and organic matter, especially if it is a light (sandy) sail. Son and oxygen will "burn" up the organic matter, especially if it is a light (sandy) sail. Son and oxygen will "burn" up the organic matter, instead of its being digested by the thousands of species of soil organisms that form a stable humus or nutrient bank, for new plant growth. Bere soil can also dry out faster, or wash away in heavy rains, or, especially in the case of heavy soils; form a hard crust on the surface.

The different mulching materials available to you will have differing effects on your garden. The most available mulch in dairy country, is old or spoiled hay — many farmers, especially after last year's bad hay season, have old hay that they would love to have cleared from their barns to make way for the new stuff. If they's a lready taken it out and piled it somewhere, even better — the rains will have started it rotting, which is what you went Despite the sliminess of some of the bales, partly rotted hay will "dissolve" into your soil by next spring and not interfere with tillage, The same is true of other mulches —leaves, saw dust, woodohips, pine needles, newspaper— in their fresh state, all are high in carbon, low in nitrogen. This means they can tie un nitrogen in your soil as they decay, starving your vegetables. The microorganisms will take nitrogen from the top soil layer to digest these carbonaceous materials. The sol

Warning: much can't take care of all your weeds -prass will come through if you don't mulch heavy enough (3-4"sfter it has settled), some animals in the rows or beds will come through the same spaces as the vegetables. You must deal with these, if you have future gardens in mind -one annual weed casts thousands of seeds some do it in July, most in August. Weed thoroughly before mulching, especially in the rows of vegetables, and then keep pulling the escapees. Finally, when those you missed shoot up suddenly and start flowering, take a sickle around the garden and cut them off as low as possible (pulling big weeds often disturbs vegetable roots) -it's worth the effort.

A word on hoes and sickles - these can be valuable tools if kept razor sharp and used at the right time. When annual weeds are less than three inches tall, a light scraping with a sharp hoe just below the surface will easily do them in. You'll notice that you can kill 95% of the weeds between your rows with a hoe, leaving a few in the rows to pull by hand, les a file on the bevelse dep of the hoe, pushing toward the edge. We even file the sides of the hoe blade, for hoeing in our narrow 7" spinach rows.

One thing I Torgot—mulch prevents the fruits of your vegies from rotting, worms, or insects through soil contact-this is important for cukes, beans, summer squash, unstaked tomatoes, and melons.

Good luck - you'll be glad you mulched.

