Extension Bulletin

Don't Treat Your Soil Like Dirt: Why you should test your garden soil

familiar

soil.

Ontario,

alternative

Plants require up to 17 different

elements to grow and remain

healthy; with the three most

phosphorous (P), and potassium

(K). Poor growth and vegetable

production will likely happen if any

of these three nutrients are below

a crop's critical level. Other soil

properties such as acidity (pH),

total salts, and percent organic

matter are also very important as

they either affect the soil's ability to

hold nutrients or the plant's ability

to uptake the nutrients from the

If your plant's health is poor, not

only will its growth and vegetable

production by reduced, but its

natural abilities to fight insect and

disease attacks will also be

compromised. With the newly

implemented pesticide ban in

tools. Maximizing your soils fertility

gardeners

pest management

need

nitrogen

(N),

being

By Joel Symonds

There is nothing quite like the satisfaction of sinking your teeth into a juicy, fresh off the vine, organically grown tomato from your own backyard. And knowing how much work went into producing that delectable delight makes it taste even better.

However, many gardeners in the North, can agree it's extremely challenging and at times even frustrating, to grow vegetables in our short growing season. Once spring finally arrives, after the last frost has passed, we're naturally eager to get our seeds into the ground as soon as possible, but we often forget to think about what's in our soil. We mistakenly figure everything should be fine. It was last year, right?

Here's the reality every gardener must remember: If an essential nutrient for plant growth is limited in the soil, your vegetable production will be

Plain and simple.

Is a great preventative measure.

From an environmental standpoint however, we also need to be concerned about over applying fertilizers which can be

washed away by rainfall, contaminating our streams, rivers and lakes. Applying too much

fertilizer can also be harmful, since it can dehydrate or "burn" your plant's roots and foliar tissues. Today's eco-friendly gardener is very interested, applying just the right amount of organic fertilizers; not too little but not too much.

Soil testing is a quick, easy, and affordable way to ensure that your garden vegetables are getting the right amount of nutrients they need for optimum, healthy growth. Although home soil test kits can be purchased from many garden centres, their accuracy is questionable and they fail to provide any interpretation of the results.

Soil testing laboratories provide highly accurate results and include crop-specific fertilizer recommendations as part of their soil testing package. Based on your soil test results, these recommendations clearly state if your soil needs a boost of N, P or K and if so, exactly how much fertilizer is needed (either chemical or organic).

Testing can make you an even better gardener.

Don't treat your soil like dirt. Test your soil.



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