

Understanding Fertilizer

This is the first article in a monthly series on soil and plant nutrition Managing nutrients for a gardener means applying fertilizers properly, improving garden soils with organic matter and protecting soil in the

Fertilizers are not plant food!

Seventeen plant nutrients

What does the 10-10-10 sym-These

bag of 10-10-10 would supply 10 pounds of actual nitrogen, 10 pounds of available phosphorus and 10 pounds of soluble potash. The remaining 70 pounds would

Slow-release fertilizers re-

HONESDALE (Wayne Co.) - Would you like for your children to be money won't make some of the same

izers are applied around trees or shrubs, as the later nutrient release may keep the plants growing into the fall when they

should be hardening off for the

winter. Cottonseed meal, blood meal, bone meal, hoof and horn meal, fish emulsion and all manures are examples of organic fertilizers. Organic fertilizers usually contain relatively low concentrations of actual nutrients, but they perform other important functions which the synthetic formulations do not. These functions include: increasing organic content of the soil, improving physical structure of the soil, and increasing bacterial and fungal activity.

How do I choose a fertilizer for my garden? Fertilizer mate-

you or your group would like number above to schedule.

ways to meet the needs of specific plants. They include dry, liquids, solubles, slow-release, tablets, spikes and packets. Your best bet is to take a soil sample, have it tested and follow the recommended amounts of fertilizer.

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Fertilizers are salts, much like our familiar table salt except that they contain various plant nutrients. If tender plant roots are close to the fertilizer granules, water is drawn from these roots. Plant cells in these roots begin to dehydrate and collapse, and the plant roots are 'burned' or dried out to a point where they cannot recover.

It is important to apply fertilizer according to instructions at the proper time and rate to prevent water quality problems.

walks and driveways where it can easily wash into storm drains and, eventually, into creeks, streams, and rivers. Nutrients, particularly nitrogen, become a water quality problem through leaching or run-off Leaching is the effect of nutrients being washed through the lower soil layers and into the groundwater supply. Leaching and run-off not only rob your soil of nutrients, but also lead to ero-Provide your soil with sion. holding power by planting groundcovers in bare spots.

Any questions can be directed to Tom Becker, horticultural extension agents, at (717)840-7408

Information adapted from Consumer Horticulture: Guide to Nutrient Management, Diane



