



Have you noticed the leaves on your trees turning yellow? Do your tomatoes seem to be small, stunted, with dwarf leaves? Malnutrition is common in yard and garden plants, and an understanding of nutrient deficiency symptoms is essential to correctly identifying the problem.

In our area, the nutrients most commonly lacking are nitrogen, sulfur, and iron. Others can certainly be in short supply, but these are the most common.

Nitrogen deficiency shows up as pale green older leaves. Nitrogen is moved by the plant from the older parts to the new leaves when it becomes short. The older leaves turn yellow, and then brown as they die.

Adequate nitrogen is essential for normal flowering and fruit setting of all species. A deficiency will result in reduced fruit size and quantity.

Sulfur deficiency symptoms are similar to nitrogen except that they appear on new growth instead of on old. With sulfur deficiency expect to see yellow leaves, stunted plants, and reduced leaf size.

Sulfur is tied to nitrogen in that if one is plentiful, it can cause the other to be short. In other words, if you are seeing sulfur deficiency, it could mean that you overfertilized with nitrogen earlier.

Iron deficiency appears as a yellowing or bleaching of the leaf area between the veins (interveinal chlorosis). The veins retain their dark green color, but the rest of the leaf turns yellow. This affects the newer, younger leaves, but as the deficiency becomes more severe, can affect older leaves as well.

Iron deficiency is a function of soil acidity more than of an amount of iron in the soil. As soil pH becomes higher, the availability of the iron is reduced, causing a deficiency. Since spreading fireplace ashes on the garden area can raise pH, this is a frequent cause of iron deficiency.

The solution to these problems is simple. Add some appropriate fertilizer. Both nitrogen and sulfur are soluble and are available in several forms. Any of them will work.

Fertilizer packages show their contents using a standard formula. The package will have three numbers displayed which tell as a percent the amount of nitrogen, phosphorus, and potassium contained in it. A package which states 10-20-10, for example, will contain 10% nitrogen, 20% phosphorus (as P2O5), and 10% potassium (as K2O).

If sulfur is also a component of that fertilizer, it will be added on after the other three nutrients. A package which states 20-0-0-5 contains 20% nitrogen, no phosphorus or potassium, and 5% sulfur.

Iron needs to be added in a specially prepared "chelated" form. Chelated iron becomes available to the plants, while other forms are not. The amount needed varies depending on the plant affected. Ten pounds per acre may be adequate for shallow vegetable crops, but 100 pounds per acre are required for fruit trees.

Other nutrient deficiency problems may exist in your yard or garden. If you have a problem, bring a sample to the extension office for examination.

**Tips For Sater Lawn Mowing**

When operated carelessly, a lawn mower can be a very dangerous machine. Both small lawn mowers and the larger four-wheel tractor-mowers must be handled carefully or injuries to the operator or bystanders may result.

Use the following checklist for safe lawn mower operation. For the mower:

- Inspect for loose nuts and bolts, and make sure all fuel line fittings are tight.
- Check the mower blade for dullness, nicks and imbalance.
- Service the mower regularly in accordance with instructions in the owner's manual. If a problem arises take the mower to an authorized service person.

**For Safe operation:**

- Know the rules of safe operation recommended for your mower. Read the owner's manual.
- Do not refuel a hot engine. Always fill the mower gas tank before starting to mow.
- Clear the area to be mowed of children and pets and do not allow children to operate the mower.
- Keep hands and feet clear when starting and operating the mower.
- When mowing, do not pull the mower towards you, always push it.
- If wheeling the mower from one surface to another, leaving the mower unattended, or if the mower becomes clogged, turn mower engine off. Stop the engine and disconnect the spark plug wire when repairing or cleaning the mower.

-With a small walk-behind mower, mow steep slopes sideways. With a riding mower, mow steep slopes up and down.

For safe grounds:  
-Clear the lawn of any rocks, bones, toys or other small objects that could get caught in the mower blades.

-Avoid mowing very steep slopes. Operators of tractor mowers are advised to look behind before backing up, to be careful of traffic near roadways, to disengage the mower mechanism before crossing drives and walks, and to avoid carrying passengers.

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**South Morrow County Ministerial Association**

by Father Tony Bullman

The spiritual change following a true conversion should ultimately be so revolutionary that the New Testament rightly describes it as a new birth. Indeed, Jesus made it painfully clear to the religious leader Nicodemus, that until someone is "born again" he can neither see nor enter the kingdom of God. "You must be born again", said Jesus. (John 3:3-8)

But how can I know that I am born again? If I rest on my feelings as a Christian, I am in for a rough time. Feelings are notoriously deceptive, they are a hopeless barometer for spiritual reality, and depend on such mundane matters as food and sleep and physical condition. Therefore, how can I know that I am born again?

John tackles this question in his first letter which was written to Christians to assure them of their relationship with God. The letter is peppered with the words "We know" and it was written expressly "That you may know that you have eternal life". (1 John 5:13)

Think for a moment of sitting on a three-legged stool. If all three legs are correctly in place your position is quite stable. If one leg is short or even missing altogether you will wobble. If two legs are absent you will be most insecure. If all legs are removed—crash! The three legs of Christian assurance are these: 1-The Word of God 2-The work of Christ 3-The witness of the Spirit.

**HEPPNER MUNICIPAL POOL INFORMATION**

The Heppner Municipal Pool will open with a free swim at 1:00 p.m. on Sunday, June 19, 1988.

Pool Manager will be Travis Harrison. Lifeguards will be Michelle Beck and Starla Mariatt.

We do not have an instructor who holds a W.S.I. card, THEREFORE, NO LESSONS WILL BE GIVEN THIS YEAR.

Season tickets will be on sale at Heppner City Hall on June 6, 1988.

Costs for tickets are:  
Family - \$50  
Student - \$20  
Adult - \$25.

Daily admissions are:  
Thur 10 yrs. old - .75  
11 thru 14 - \$1.00  
15 and up - \$1.50

Pool will be closed on Mondays and July 4. Pool hours are: 1-5 p.m. and 7 to 9 p.m. - Tuesday thru Friday. 1 to 5 p.m. on Saturday and Sunday.

The last day of swimming will be Sunday, August 28, 1988.

Published: May 25, June 1, 8, 1988

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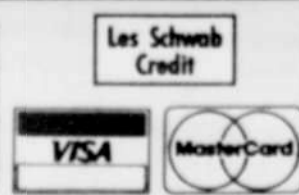
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