## THE NERVOUS SCHCOL CHILD

#### Needs Rich, Red Blood to Regain Health and Strength.

<section-header><section-header><section-header><text><text><text><text><text><text><text><text>



has been picked, handled several times, and stored away. Apple rots are, of course, due to the attacks of certain fungi, of which two are most common in Ontario, namely the black rot fungus and blue mould fungus. Of these the last is the cause of the greater part of the rot in stor-age. These fungi are living plants which grow in the tissue of the apple-and destroy it, after which they pro-duce immense numbers of very min-ute dust-like "seeda," which we call spores. These spores will grow just like seeds, and as they are so small, they are readily blown about by the lightest air currents, and thus the fungus is spread from one apple to another. The following hits will be of use in helping to keep down the amount of rot in stored apples. In the first place the storage room should be clean. The blue mould fun-gus will grow on various kinds of lit-fer and produce its spores very plenti-fully on rotten fruit. If the cellar is kept free from dirt and refuse, and no rotten fruits are allowed to remain there, the chances for rot infection are greatly lessend. The cellar should also be kept reas-onably dry. The spores of these rot fungl, like seeds, will not start to grow unless they have sufficient water. A reasonably dry cellar will therefore event. The temperature of the cellar should he kept as lows a tore great to spore

The temperature of the vents souther to be kept as low as possible. The rot fungi, like other plants, grow best in warm conflitions, and will be able to make very little progress if the tem-perature is kept within a few degrees of freezing.

<text><text><text><text><text><text><text><text> of freezing. Rot fungi got into the apple usually at some wound or bruise. The less injury that apples receive in handling a the less rot that will develop after-wards. When the storage cellar is emptied in spring, it should be thoroughly cleaned, and, if possible, whitewashed or treated with disinfectant to de-stroy all spores of the rot fungi. The musty smell which is present in many

cellars is produced by the blue mould fungus, consequently if the characteris-tic mouldy odor remains in the cellar this fungus is certainly somewhere about, and every effort should be made to get rid of it before the next season's crop is stored there. In addition to the above notes on fungus rots attention should also be called to the spotting and scalding of apples in storage, which is not due to fungl, but which is the direct result of improper storage conditions. Spotting and scalding of apples is very frequent towards spring. The spots on the skin are sunken and brown and great-ly disfigure the fruit for sale, while scalding is even more damaging to the appearance. In this latter trouble the flesh just under the skin turns brown in iregular areas. While, as noted, these troubles are not direct-ly due to rot fungi, they are likely to gives case entrance to rot producing fungi afterwards. Both spot and scalj arise from im-proper storage conditions, and will

The Great's Phosphodiae. The Great Papitak Remedy, merous system, make any Blood and Valas, Tarne Merony, dency, Loss of Renergy, Papitation of the Heart, Failing Memory, Papitation of the forsts. Our mailed in glass, and the solid transfer of the solid solid solid transfer of the solid solid solid solid transfer of the solid sol

## COLORS' EFFECTS

### On Persons When Used in a Room.





<text><text><text><text><text><text><text><text><text> THE FERT AZER FOR WINTER

WHEAT. How to make selection from the everal grades recommended by the

| Imp  | rovemen | at Committe | e:       |
|------|---------|-------------|----------|
|      |         | 1.          | И.       |
|      |         | With        | Without  |
|      |         | Ammonia.    | Ammonia. |
| High | potash  | 2.10-6      | 0-12-4   |
|      |         | 2-10-4      |          |

Soil

| mgn   | Prov. |     | ••• | 9. | 10-4 |      |        |
|-------|-------|-----|-----|----|------|------|--------|
| Low   | pot   | ash |     | 2. | 12-2 |      | 6-12-3 |
| Where | no    | man | ure | is | used | on   | wheat  |
| nd.   |       |     |     |    |      | Into |        |

Where wheat is planted state, or Where land is not plowed for wheat, Select from Group 1. When plenty of manure is used, and Where clover does well and is grown regularity and at s' or intervals in the rotation. Select from Group 15.

Select from Group II. Select from Group II. On muck and peat solls, On sandy solls, Where manure is used but lightly, or Where clover fails. Select from Group A. On elay and elay loam solls. On solls which do not respond to otash, or Where manure is heavily used, select from Group B.

where manufe is heavily used. Select from Group B. Seven different analyses for all con-ditions under which wheat is grown? Is it possible? Does it seem reason-able?

able? Not only is it both possible and reason-nonable, but the system is of humenes value to the fortilizer consumers the country over by simplifying their fer-tility practice. Let vis illustrate just how the system works. Wheat needs ammonia (that is nitro-gen) and lots of it. Ammonia gives the

DODDS KIDNEY

PILLS

23 THE P

ALLKIDNEY 111122

BRICHTUMA



12

1

young plant a quik start. It hepp produce stem and leaf growth and sids the plant in "tillering out," and stooling. B; giving the soil a good leaf growth ammonia in wheat fer-tilizer helps prevent winter-killing. It will never do, aowever, to give the one fertilizer application made at seeding time. In the fail we need enough ammonia to "start" the crcp. What more is needed must be applied in the spring by a top-dressing fer-tilizer.

What more is needed must be applied in the spring by a top-dressing fer-tilizer. The two per cent. of animonia in four of the seven wheat fertilizer. Is included as a so-called "starter" to furnish available nitrogen under con-ditions when the soil cannot be relied upon to furnish it in sufficient quan-tity. Let us see what these conditions are:



without question, but no one can dis-prove that their virulency is much increased when walantrition is on hand as a ready aid. In this matter of high analysis fer-tilizer the writer is inclined to be a trifle crabbed. Only recently a very good friend asked-what do you think of a 1-5-1 for my wheat this fail? Perhaps by this time the reply is for-given, though it is doubtful. No wa 1-5-1 fertilizer will help to grow more wheat. There is not a schadow of doubt abcut that. It also will return a profit in any case where it has a fair show. There is not a doubt about that either. But neither is an argument for its use unless a higher grade fertilizer cannot be ob-tained. What do we buy fertilizer for, any-

doubt about that either. But neither is an argument for its use unless a higher grade fertilizer cannot be ob-tained. What do we buy fertilizer for, any-how, if it isn' for the plant-food it containe? Let to the average man the analysis on the sack might as well be printed in Greek. for all the use he makes of it. A 1-8-1 is cheaper than a 2-12-2 beyond a shadow of doubt. but how much cheaper is the 200 pounds of plant-food when compared with the 220 pounds of the higher analysis. That may be another story. Just for fluxtration, suppose we as-sume a 1-6-1 fertilizer and a 2-12-2. The 1-6-1 is seldom over offered for sale, but it will erre the purpose of fillestration, and besides, it is not far different than 1-8-1. A ton of 2-12-2 has exactly double the plant-food of a ton of 1-6-1 and in the same pro-portion. Which shall we buy, half a ton of 2-12-2 or 2 tons of 1-6-17. In the first place 2 tons of 1-6-18. In the first place 2 tons of 1-6-18. In the first place 2 tons of 1-6-19. In the first place 1 first for 1-6-19. In the first place 1 first for 1-6-19. In the first place 1 first for 1-6-19. In the first the bas all of or hem. But between a good profit



many a girl's completion will be found to disappear if Zam-Buk applied with regularity. Miss Mary Krall, of Office Flains, Maa, writes: "After having had disfuring pimples on m ing had disfuring pimples on the rise for two years, and havin tried all kinds of treatment in val-th ad about given up hope of ever getting rid of them, when I am an advertisement recommendan Zam-Buk for this trouble. I see for a sample box, and even the mail quantity brought a little in provement. Now, after persees Buk, my face is entirely rid of the eventor." Soc. box, all dealers.



# SCIENCE NOTES

Of the undereloped water power of the United States about three-fourths is found in 13 Western States, leav-ing one-quarter of the total, or some 13,000,000 horse-power, for the East

In the Alps, the mosquito Anophe-les, which causes malaria, is found plentifully up to heights of 5,600 feet. but malaria is never met with above 2,600 feet.

The lumber production in 1918, ac-cording to tables recently published by the U. S. Forest Service, show a total of 32,760,000,000 feet. The pro-duction for 1917 was 36,000,000,000 feet, so, that the past year shows a considerable decrease in lumber pro-duction; this was most marked in the Southern and Eastern States.

bund norses are never known to make a mistake in their diet when grazing. Like all other horses, they are guided by the nostrils in the se-lection of proper food.

Silicon possesses the highest known thermo-electric power. But it can be made either electro-positive or electro-negative. If it be crystallized in silver or the it is negative.

Trees are being systematically planted along the great wall of Chine.

A combination bridge and market A combination brings and marked place have been constructed by the city of Monterey, Merico, and this bridge which serves a double pur-pose is one of the sights of that part of Mexico.

With the exception of one or two of the Balkan States, Russia is the most illiterate country in Europe, over 69 per cent. of the inhabitants being unable to read or write, and yet it has one of the largest universi-ties in the world.





The man who cannot forgive any mortal thing is a green hand in life. --Robert Louis Stevenson.