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Farm Problems

Conducted by Prof. Henry G. Bell, Dept. of Chemistry, Ontario Agricultural College, Guelph

for mangels? How much per acre, and this means. would the same fertilizer be used for 6. Does the gradual elimination of

Answer.-In the demonstration tests | Answer.-Certain of the bases in conducted on a large number of farms the soil are removed by cropping and throughout the province by the De- by drainage. For instance, lime is partment of Chemistry, O.A.C., best thus removed, and magnesium. returns from fertilizers used with man- If so, does this action create an ungels have been obtained where 2-12-6 balanced soil condition in which the fertilizer was applied at the rate of 375 acid elements predominate? lbs. per acre. This gave an average Answer.—The natural reaction of the yield on loam soils of 49 tons per acre removal of lime and magnesium is to used. On clay soils it gave a yield of dominates. 33 tons per acre against 27 tons where Would a proper application, after no fertilizer was used. 2-12-6 gave liming, of a well balanced fertilizer in-

Little higher in potash. 2. Will complete fertilizer build up commonly pursued in Ontario, lime the soil for future crops or are they should be applied once in four or five

only good for one crop? Answer.-In experimental work and naturally short of it. Crops are rofield demonstration tests considerable tated so as to introduce a legume crop information is accumulating which once in four or five years. The second BY ANNEBELLE WORTHINGTON points to a decided "after" effect from growth of this crop is usually turned fertilizers. For instance, where fer- under as green manure. It also adds Illustrated Dressmaking Lesson Furtilizer was applied to alfalfa in 1930 considerable nitrogen to the soil if giving an increase of 9,200 lbs. (green legumes predominate in it. A fair weight) per acre, the same plot in amount of livestock is usually kept 1931 without further fertilizer gave an and manure is returned as generously increase of 2,240 lbs. (green weight) as possible. In addition to these pracover land which had been unfertilized. tices, suitably balanced fertilizers ap-In another instance where fertilizer plied to money crops or to crops of rehad been applied to barley on clay soil latively high value has been found to in eastern Ontario in 1930, there was increase yields at considerable profit. an increase of 13.6 bushels. On the Of course, the degree of profit will desame plot in 1931 without any further pend among other things upon the fertilizer there was an increase of quantity of fertilizer employed. We 4,320 lbs. of clover hay (green weight) | mean that while three bags of fertilover unfertilized land. In a test con- izers per acre may give a highly profitducted by the Department of Chemis- able return on wheat or corn or sugar try, O.A.C., where complete fertilizers boets, the addition of eight bags to the were applied to mangels and no fur- acre, which would entail a much ther fertilizer applied for two years, greater cost, would in all probability there was a gain of 4.1 tons of mangels consume the additional profit. The the first year; 9.7 bushels barley the Ontario farmer has to determine this second year, and 600 lbs hay the third point for himself, in view of the type year. Necessarily, attention must be of his soil, the cropping system which given to keeping up the organic mat- he follows and the amount of fertility ter of the soil by turning under green that he is able to return in barnyard crops or adding all the strawy manure manure and green manures. obtainable, if the soil is to be im- 7. What is the maximum phosphoric proved in its productive capacity.

scab on potatoes, used at the rate of have used 4-12-6 for early potatoes and 500 lbs, per acre?

cause scab. Scab is a fungus disease coat of manure. which thrives in an alkaline soil. If Answer.-Results in our demonstrapotato seed is not treated and is plant- tion fertilizer tests throughout the ed in a scab-infected soil that is alka- past three years point distinctly to the tine in reaction, there is every chance value of 2-12-6 fertilizer on potatoes of a scabby crop being harvested. under general conditions. In our tests Many potato growers find that by turn- of 1931 where 2-12-6 and 4-3-10 fertilunder a second crop of clover in pre- izers were compared, we found the paration of the potato seed bed, the latter gave a little higher yield on why not this darling coat-like dress? main views which the people of John's ing of his punishment was probably desirable small degree of acidity in the light soils and loamy soils, but the difsoil which produces clean potato stock ference on loam soils hardly over. in sheer woolen, now so modish. For Job's comforters—was that trouble is loss which his loyalty may have caused results from the decay of the organic came the difference in cost of fertil- the darling pleated collar, you could the punishment for the sin a man com- him. To him as to many another, be-

low prices it is difficult to make a fertilizers for early potatoes. It would | Spanish tile wool jersey with brown directly to this crop. From results ob- izers for the early potatoes, namely 4- cunning. tained recently in our demonstration 12-6, is quite as we would recommend, A dark green tweed-like woolen ing aroused, not he impulse to help, work, it would appear that oats can yet the results of our tests indicate with vivid yellow pique collar is an- but the desire to discuss. benefit most profitably from the re- that you could get slightly larger other scheme you'll like. sidual effect of fertilizers applied to yields by substituting 4-8-10 for the Style No. 3465 is designed in sizes that sin does not bring sufferingthe crop preceding If, however, oats late potatoes on the light soil. This 6, 8, 10 and 12 years. are grown as a cash crop, 200 lbs. of will depend, of course, upon how | Size 8 requires 1% yards 54-inch fertilizer to the acre may be of advant- heavy a coat of manure you apply. In material and % yard 35-inch contrast- fering as punishment. Let a nonage. Whether or not it will pay will the tests conducted to which we have ing material. depend upon the type of soil and state referred, no manure was applied. In of soil fertility. If grain has been the event that you have a fair coating taken from the field frequently within of manure to apply, 2-12-6 will give the last few years without the return you a better balance of plantfood with of much fertility, the available potash manure than 4-3-10. of the soil will undoubtedly be considerably lowered, in which case a fertilizer such as 2-12-6 will pay well.

5. In how many ways are plant food elements taken from the soil?

Answer.-Plant food elements are removed in crops which are harvested from the soil both in the straw stalk boneros, or charcoal burners, doing and in the fruit, grain or seed. They the cooking for the villagers and are also removed in the bodies of live. planters. Mahogany is cheap and gen especially is washed out of the Zone authorities are planning to insoil through drainage water. Small troduce other fuel so as to save the amounts of potash and phosphate in valuable timber.

1. What fertilizer would you suggest the order named are also removed by

the bases in the soil occur constantly?

against 36 tons where no fertilizer was produce a condition where acid pre-

very good yields on sugar beets but crease production to an economical was slightly surpassed by fertilizers a maximum?

Answer.-In the system of farming years on the average, in soils that are

acid that one can use in a potato fer-3. Should a 4-8-10 fertilizer cause tilizer? For the last two years we 2-12-6 for late, and the results have Answer.-We know of no reason been very good. We have a sandy why fertilizers of any kind should loam soil and usually put on a light

4. How does 6% potash in the fertil- prevail on clay soils. From the rather contrasting color. izer, say 2-12-6, applied at the rate of extensive investigational potato work | The original dress used brown wool | The Greek view was that in some | Jesus, summing up the meaning of Answer-With oats at the present acid can be used with good results in shiny patent leather.

Mahogany Used as Fuel

In the interior of the Republic of Panama one often sees valuable mahogany being used as fuel in the carAncient Mexican Art



A decorated skull unearthed by Professor Alfonso Caso leader of expedition in Mexico. This unusual specimen is adorned with carved sea shells in the eye sockets, a piece of flint in the nose cavity and the whole finished off with turquols.

What New York Is Wearing

nished With Every Pattern



extra cash in a spring crop, say oats? opinion that as least 12% phosphoric wool crepe. The wide brown belt was something wrong for which he is made into the world is like a judgment. It

HOW TO ORDER PATTERNS

t carefully) for each number, an address your order to Wilson Pa. Service, 73 West Adolaide St., Toronto

THE LOVE TREE

shadow of reason.-Victor Hugo.

Sunday School Lesson

John 8: 12.

I. THE BLIND MAN CURED, John 9: 1-7.

was at the entrance to the Temple. On the Sabbath, however, he would neither be begging nor receiving aims. The rapidity with which the news of logical question?

For little daughter of school age, to ask in the story indicates the two ing. But, meeting Jesus, who, hearizer. The reverse order was found to use pique, linen or self-fabric in a mits-o the sin which his parents set by life's misfortunes, Christ be-

> t pay in his next incarnation. "Who brings out the characters of men, v the disciples, that the sight of suffer- he makes determines his destiny.

Jesus' answer (v. 3) did not mean for it does. He did mean, however, to discourage the tendency-still among us-to think uncharitably of sufchurchgoer, say, be killed in a moto accident on a Sunday and some on Write your name and address plain- We are not in a position to say. Our will be sure to say, "God's judgment! ly, giving number and size of such duty in such a situation is made patterns as you want. Enclose 20c in clear by Jesus' reply to his speculating stamps or coin (coin preferred; wrap, disciples, v. 3. We are to ask, not-"Why do such things happen?" but

The elaborate process of wetting the clay-sealing the man's eyes, sending him to the Pool of s'lcam, is symbol Love is like a tree-vegetating of ism. The clay symbolizes the act of itself, striking deep-roots through all creation, Gen. 2: 7. The Christian, our being, and often continuing to the man whose eyes Christ has opened grow greenly over a heart in ruins, is a new creation. Sealing the eyes stock pastured upon the soil, and nitro- makes the best charcoal, but the Canal And, inexplicable as it is, the blind- means that our spiritual blindness er is this passion the more it is must be brought home to us. Siloam tenacious. It is never more fifmly means "sent." John saw in the name seated than when it is without a a reference to Jesus Christ, "sent" by

ANALYSIS.

II. "I WON'T BELIEVE, John 9: 8-34. III. WITH CHRIST, OR AGAINST HIM, II. "I WON'T BELIEVE, John 9: 8-34. John 9: 35-41.

show the gradual hardening of the clusive evidence, remain stubbornly ceived Jesus. The Pharisees in the So the controversy went on. story represent the prejudiced stub- Failing in their purpose, the Jews bornness of those whose hearts were degenerated into abuse, v. 34. They hardened by Jesus' life and teaching. hated Jesus. Therefore they would Lord?"-Burke. I. THE BLIND MAN CURED, John 9: 1-7. neither see nor admit any good in him.

What can I do to help?" So will the

cular contribution to the future."-God. The command to "wash" is part | Raymond B. Fosdick.

Sounds of Night in the Jungle

It was early spring in the tropics, denly upon my ear instantly crystall-The final period of pipe and fiddle had ized some vision of the past-some cirnot yet arrived, so that there was no cumstance or adventure fraught with! John Gibson Lockhart in "Life of

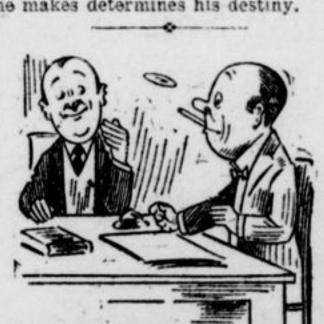
which now seem less imaginary. like the first breath of the trade-wind and waited for what the jungle might them dine at table, and "to sit up which clouds the Mazaruni surface, send of sight or sound. And in whis- to supper" was the great reward the mirror of silence was never quite pers Nupee told me of the big frog when they had been "very good clean again - or so it seemed. My kunama and its ways. It never came bairns." In short, he considered it as February 14. Lesson Bil-Jesus and Northern mind, stored with sounds of to the ground, or even descended part the highest duty, as well as the the Man Born Blind-John 9. 1-11; memory, never instinctively accepted way down the trees; and by some un- sweetest pleasure of a parent to be 30-38. Golden Text-I am the a new voice of the jungle for what it known method of distillation it made the companion of his children; he light of the world: he that followeth was. Each had to go through a re- little pools of its own in deep hollows partook all their little joys and sorme shall not walk in the darkness, ference clearing house of sorts. Any and there lived .- William Beebe, in rows, and made his kind informal but shall have the light of life .- strange wall or scream striking sud- "Jungle Peace."

> of the sacramental tendency of this Gospel. Only after the rite of bap-

What about our attitude toward the It is probable that the blind man deeds of people whom we dislike? III. WITH CHRIST, OR AGAINST HIM John 9: 35-41.

Resourceful and bold as this man his cure spread suggests some reli- proved to be, he could not but have gious festival-perhaps the Feast of felt keenly his excommunication. His Dedication, 10: 22. The "disciples" hope of employment would now be (9:2) may have been the Judean gone. He would be shunned as the group, and not the Galilean. Would outcast he was. One could imagine fisherman be interested in the theo- him moodily wishing that he had been left as he was, where he could at least The question which they are made have had society provide him his liv-

200 lbs. per acre, help the grain to pay conducted by this station we are of the crepe. The collar was almond green previous state of existence a man did the "sign," declares that his coming sinned, this man, or his parents, that | 39. No one ever comes in contact with profit from the addition of fertilizers appear that while your choice of fertilizers and brown suele belt is were the old legalistic tendencies of with him or against him. The choice



"Where did you find your wonderful follow-up system? It would get money out of anybody." "I simply compiled and adapted

the letters my son sent me from scratch. Each era makes its parti

hum from the underworld. The flow similar sound. Then, appreciably as a Sir Walter Scott" gives us an interof sap and the spread of petals were second thought, came the keen concen- esting view of the methods employed no less silent than the myriad crea- tration of every sense to identify this by Scott in treating his children in tures which. I knew, slumbered or new sound, to hear it again, to fix it in their early days: hunted on every side. It was as if I mind with its character and meaning. He had now two boys and two had slipped back one dimension in Perhaps at some distant place and girls-and he never had more. He space and walked in a shadow world. time, in utterly incongruous surround- was not one of those who take more But these shadows were not all color- ings, it may in turn flash into con- delight in a mere infant; but no less. Although the light was strained sciousness - a memory-simile stimu- father ever devoted more time and almost barren by the moon mountains, lated by some sound of the future. | tender care to his offspring than he yet the glow from the distant lava and I stood in a patch of moonlight lis- did to each of his, as they succescraters still kept something of color, tening to the baying of a hound, or so sively reached the age when they and the green of the leaves, great and I thought; that musical ululation could listen to him, and understand small, showed as a rich dark olive. The which links man's companion wolf- his talk. Like their mute playmates, afternoon's rain had left each one wards. I turned to the Indian at my Champ and the greyhounds, they had filmed with clear water, and this elbow, full of hopeful expectation. at all times free access to his study;

struck back the light as polished sil- With his quiet smile he whispered, he never considered their tattle as any ver. There was no tempered illumina- "Kunama," and I knew that I had disturbance; they went and came as tion. The trail ahead was either black a frog of size and voice well in keep they pleased their fancy; he was alor a solid sheet ofl ight. Here and heard the giant tree frog of Guiana- ways ready to answer their questions there in the jungle on each side, where ing with these mighty jungles. I could and when they, unconscious how he a tree had fallen, or a flue of clear imagine the great goggle-eyed fellow was engaged, entreated him to lay space led moonwards, the effect was of sprawled high near the roof of the down his pen and tell them a story, cold electric light seen through trees jungle, clutching the leaves with its he would take them on his knee, rein city parks. When such a shaft vacuum-cupped toes. The moonlight peat a ballad or a legend, kiss them struck down upon us it surpassed would make him ghostly-a pastel and set them down again to their simile. I have seen old paintings in frog; but in the day he flaunted splash- marbles or ninepins, and resume his Belgian cathedrals of celestial light es of azure and green on his scarlet labor as if refreshed by the interrup-

At last the silence was broken, and At a turn in the trail we squatted From a very early age he made

ELOQUENCE OF WORDS

cannot possibly do otherwise; by any sport or diversion could go on this power of combing we are able, in the right way, unless papa were The story begins with the healing by the addition of well-chosen cir- of the party, or that the rainlest of physical blindness, but it soon shifts cumstances, to give a new life and day could be dull, so he were at INTRODUCTION—Chapters 7 and 8 to the Jews who, in spite of the conforce to the simple object; in paint home.—John Gibson Lockhart, in Jewish hearts against Jesus. Many of unbelieving. They fastened upon the ing we may represent any fine figure "Life of Sir Walter Scott." his own disciples no longer walked work involved in wetting the clay on we please; but we can never give it with him. The shadow of the ap- the Sabbath, and made it the basis of those enlivening touches which it proaching crisis was already darken- the charge against Jesus, v. 16. "A may receive from words. To repreing his way. He knew that the end good man would not break the Sab- sent an angel in a picture, you can A Pennsylvania farmer who got could not be far off. The "man born bath," said some. "A bad man could only draw a beautiful young man dizzy whenever he looked down from lind" is a type of the Jews who re- not work a miracle," retorted another. winged; but what painting can fur- a height, and who transmitted this I nish anything so grand as the addi- peculiarity to no less than 17 of his tion of one word, "The angel of the children, grandchildren and great-

____ GROWING IN DARKNESS Kind hearts are gardens, Kind thoughts are roots, Kind words are blossoms. Kind deeds are fruits; Love is the sunshine That warms into life. For only in darkness Grow hatred and strife.

Getting Ready



Here is the Aquitania at the Southampton floating dock, undergoing a thorough grooming in preparation for her next busy season. The propellers each weigh 15 tons.

Sir Walter Scott And His Children

instruction to blend so easily and playfully with the current of their own sayings and doings, that so far By words we have it in our power from regarding him with any distism does the believer enter fully into to make such combinations as we tant awe, it was never thought that

Dizzy Descent

grandchildren, is reported by Miss Mary Lou Heaton, of the University of Wyoming, to the Eugenics Research Association, as a part of that association's collection of human pedigrees interesting for studies of heredity and eugenics. All seven children of the original sufferer experienced this dizzy feeling, Miss Heaton reports, one woman so severely that she could not even ride in a high carriage because t made her dizzy to look down two or three feet to the ground. Five of the seven children married and four of these added to the family a total of 18 grandchildren, eight of whom suffered from the same kind of dizziness as their grandfather. One boy of this generation is so susceptible that he cannot watch another person walking near the edge of any high place. Another boy so far conquered his defect that he became an aviator during the war, but continual dizziness forced him out of this activity as soon as the war was over. One girl of this generation married and has added four great-grandchildren to the family. Two of these, both girls, are dizziness viotims, being unable even to go into a barn loft, without serious distress. One of these susceptible girls is the twin of a boy who has not yet displayed the defect; the twins not being, however, of the so-called identical type whose hereditary constitution is beleved to be exactly the same

MIDDLE AGE

One of the problems of middle age is to avoid bad debts-bad debts to oneself, because it is in old age hat the debts become payable, and it is not pleasant. Still, there are compensations for ageing. They say that a man is as old as his arteries, but it is truer to say that he is as old as his spirit. Let him get more interest and some spice of adventure, and join the society of the old and the bold. There is then the possibility of increasing your chance of being younger every day.

As a biologist let me remind you that there is no senility in the autmai kingdom outside domestic animals. Senitty is the prerogative of mankind, and one of the problems of life at the end is to submit to old age while avoiding sentity.-Sir J. Arthur Thomson.

Wisdom

The Chinese, who know more about wisdom than any other race, designate the wise by a combination of the ideographs for wind and lightning. Wise, with them, is not the serene old man bereft of all his illusions, but he who, like the wind, rushes headlong and irresistibly on is way, and cannot be stopped nor laid hold of in any station of his career-who purifies the air to the manner of lightning and strikes wherever there is need .- Hermana Keyserling.

Little By Little

Little by little the world grows strong. Fighting the battles of right and Little by little the wrong gives ways

Little by little the right has sway; Little by little all longing souls



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