

Two Effects of Clover.

The work of clover is not always to get nitrogen from the air. There are some soils that are rich enough in nitrogen and yet need the presence of the legumes. In a visit to Antioch, Illinois, the writer observed that the soil is only a little acidy and that it the potassium. The writer remembers is also rich in nitrogen. Clover is being grown, but its work of soil renovation is different from that it has to next spring the growth was so great perform on some other soils, especially those that are deficient in nitrogen. Here the roots go deep into the soil and help to improve the physical condition of the soil. It taps the stores of potassium and phosphorus that are hidden away in the depths of the earth and brings them to the upper layers of soil, where they will be within the reach of the plants that do not | that the test is not a sure one in its have the deep root systems that clover and alfalfa have.

The clovers will be found to be useful on almost all soils where they will grow, either as collectors of nitrogen or as subearth cultivators. They send their roots deep into the soil and tunnel in every direction. The roots in time die, leaving a multitude of passages in the soil. These act as drains and as air channels, by which the soil is more fully aerated. As a nitrogen gatherer the clover is of great use on millions of acres of our lands from which the nitrogen has been exhausted, and on millions of other acres it acts as a carrier of fertility | contains too much acid, which the | parent by cutting the lining away befrom the cellars to the upper storage | lime in the ashes neutralizes, or that | neath. rooms of the soil.

Varying Gluten Content of Wheat.

The wheat grown in Manitoba and the Northwest Territories in the season of 1902 was a good sample and weighed well; but the millers were unable to make a strong flour from it. The bakers claimed that the flour was weak and would not stand the proper amount of fermentation; and yet it seemed to contain a fair amount of gluten. Complaints were so general that we were asked to examine the flour, and, if possible, find out what was wrong with it. The analysis showed that the gluten was poor in qualglutenin. The gliadin, or plant glue, as it is sometimes called, is the substance which gives tenacity to the dough. It is due to the elasticity of this gliadin that the gases produced other that the margin of difference of combined with green. The skirt was bluring fermentation are retained in prices at different times of year is the dough and the dough is said to greatly reduced. Reports from New low, the gases break through and plant at Jersey City, which was built escape and the dough does not rise properly. The "Patent" grades of flour always contains more gliadin detail and the promoters expected than the lower grades, made from the same wheat, and, consequently, are stronger flours, and the dough rises better. On examining the flours made from wheat grown in the West in 1902, we found that they were all very low in gliadin.-Ontario Station.

Killing Rose Bushes.

From the Farmers' Review: I have a piece of very sandy land. For come time rose bushes have been working into it, so that in places they now choke out the crop. I have tried to exterminate them by plowing, but they don't die out and continue to increase. You may know of some way to kill them out. They are the common wild rose bushes and grow not much over a foot high. Please let me know if there is any way to get rid of | next best would bring. In the light of them .- N. Richardson, Morrison County, Minnesota.

The only way to get rid of such unwelcome visitors is to work them out with farm tools of various kinds. The short ways that are sometimes given are always unsatisfactory. The hoe is probably the best weapon to use against them if they are not too numerous. Keeping them cut off below the surface of the soil will accomplish the work.

A Christmas Gift.

Down in Kankakee county, Illinois, lives a farmer who has two boys in the agricultural college. They have become imbued with the idea that agricultural science is the science that leads all others. They have learned enough about soils and fertilizers to know that the lands of their father need potassium in some form to make it yield good crops. Last December they determined to make their father a Christmas present and cast about them for a suitable gift. They concluded that a ton of potassium chloride would be just the thing, and proceeded to get together the money and buy it. A ton of this kind of fertilizer cost them \$50. The fertilizer was used on the land this spring and is giving promise of great things.

When Corn Wants Potash.

Last week we heard a farmer talking about his corn fields and his experiences on land that has now been found to be deficient in potash. He had great trouble every year in keeping his corn from falling down. It seemed to lack stiffness, and he could first heavy wind that came along. On the advice of Illinois scientists he applied potassium chloride to his land. The result was seen the following harvest in the stiffness of the corn crop. which stood up not only till the time to gather the corn came, but throughout the entire winter.

The clay hills need to be drained as certainly as do the low lands.



When Ashes Are Put on Land. The application of ashes to land does not necessarily show what that land needs. It has been a favorite practice to apply ashes to land to determine its supply of potassium, and to-day most of our people believe that the chief fertilizing value of ashes is a bare hill tep to which he applied ashes during all of one winter. The on that place that the hay could not be cured on the ground where it was grown; but part of it had to be carried to another spot to allow of its being spread thin enough to permit of the sun's getting into it. The natural inference was that the land had become very deficient in potassium. But Professor Hopkins of Illinois says results. He mentioned parts of Illinois where there is no deficiency of potassium, but where the soil is acid. | pretty simple silks, so much in vogue, | The application of ashes brought good | are appropriate, while the yoke can be harvests and the farmers wrote him made of all-over or of the material that their land needed potassium. He trimmed in any way that may be preinvestigated and found that they were | ferred. mistaken. The lime in the ashes had neutralized the acid and caused ing, that can be used or omitted as the change in conditions that resulted may be desirable, front, backs and in an abundant yield of grain. Some yoke collar with the full sleeves. Both kinds of ashes contain over 50 per waist and sleeves are tucked in cent of lime, and this is the element groups for a portion of their length of ashes it means that either the soil fully fitted and can be rendered transit is deficient in potassium.

Cold Storage Plants.

There has been quite a furor for during the last few years. Some trated, years ago men made fortunes by erecting cold storage plants and buying quantities of butter and eggs, which were carried from the lowpriced period of the year to the highpriced period. This of course gave large profits. As was certain to be the case, other men saw the same method of getting rich and began to men welcomed the change. Many of build like plants. This was all right the fitted jackets and Etons are pracity. The gluten of flour is made up for some years, while the number of tically basques, and in some of the of two nitrogenous bodies, gliadin and plants was small enough so that the newest gowns the jacket is not meant goods stored would not greatly affect the market. But the building continued, and now the products A very handsome cloth gown with a stored compete so strongly with each satin finish was of a soft tan color "rise." If the amount of gliadin is Jersey tell of a new cold storage last year at a cost of \$300,000. The establishment was perfect in every great things. But they were unable to secure business and the enterprise went into the hands of a receiver. The plant was offered for sale at auction, with the proviso that not less than \$190,000 would be taken. Not a bid was received.

Good Heifers from Good Cows.

No really good milker should be sold except for a very high price provided it is possible to breed her to a dairy bull of a good milking strain. Every farmer should make an attempt | thick. To seven pounds of the tomato raise enough first-class heifers for toes allow the juice of three lemons his own use, and to do this he will and add this just before taking the have to refuse to listen to the voice of | sirup from the fire. Pack the tomathe tempter when he has the oppor- toes in jars and fill these to overtunity to let go of his best milch flowing with the boiling sirup. Seal cow for a few more dollars than the a mother that cow is worth more to hin than she is to the man that intends to buy her, milk her for a few months and send her to the butcher. It is a bad policy to try to buy cows from others. One never knows what he is getting in such a case. It takes time for a man to learn that the cowe he bought has faults, and during the time he is finding this out he may be losing money. Heifers raised on the place are of more interest to the farmer and his family than are the cows that are purchased from no one knows

In Picking Apples. One man suggests that a good way to pick apples is to put a tick filled with hay under a tree and drop the apples into it from the limbs. He asserts that this has been his practice and that the fruit is not thereby injured. This may be all right for some kinds of fruit, but it would not be for others. There are some of our varieties that injure so easily that even the pressure of the thumb and finger must be looked out for. Besides, in the letting fall of apples from | at the lower edge is a special feature the top of the tree a great deal of and one that is much to be desired. skill is required not to hit the other apples in the tick or the limbs of the tree when the apples are being yoke effect without undue bulk, inasdropped. The apple basket and the much as fashionable fabrics are all apple bag will be found most advan- soft. tageous for most of the work of fruit gathering.

The Calf for Baby Beef.

The calf that is to be used for the making of baby beef must be kept growing from the start. If the calf seldom get it to the mature stage cannot be so fed on skimmilk that its or 4½ yards 44 inches wide, with 5¼ without having it fall down before the growth will not be checked, then it yards of applique to trim as illusshould have whole milk till weaning trated. time. A slow-growing animal is of little value to be used as a basis for the production of this kind of beef that is now becoming so popular. The calf must be carefully weaned. It will not do to take it off a full feed of milk and put it onto grain and roughage at once. This process must be so gradual that the calf will not realize it when its milk is finally withheld.



Blouse Waist. Lingerie waists made with lace insertion are among the smartest of all smart things and are charming for wear with the jacket suit in cool weather as well as during the warmer

season. This one is dainty in the extreme and combines Persian lawn with Valenciennes insertion and faggoting, but the design is admirable for many other thin materials as well. Lace and embroidery both are used with washable fabrics and all the

The waist consists of the fitted linthat does the work in many cases. and between these groups the trim-When land responds to the application | ming is applied. The yoke is care-

The quantity of material required for the medium size is 3% yards 21 inches wide, 31/2 yards 27 inches wide or 1% yards 44 inches wide with 8 the building of cold storage plants yards of insertion to make as illus-

Neat Basque Waists.

There is every indication that the basque bodice will be the next thing worn. The pointed crush girdles were the first indication, for they certainly gave the blouse waist a basque effect, and their popularity proved that woto be removed, but is worn over a guimpe or tucker of thin material. plaited all around, the plaits being very full in the back, so that no sheath effect was noted. The jacket was laid in tiny plaits on the shoulder and was full over the bust. It was held tight below that and around the waist by a corselet arrangement of green and tan colored braid touched with gold.

Preserved Tomatoes.

Weigh ripe tomatoes and allow to every pound of them a pound of granulated sugar. Peel the tomatoes, cover with the sugar and set aside until next day. Drain off the sirup, boil it, and as it boils skim carefully. Lay the tomatoes and simmer for twenty minutes, then with a perforated spoon remove them and spread on platters in the sun while the sirup boils until immediately.

On Summer Costumes.

On many of the elaborate summer costumes mousseline de soie flower trimming is used. This adornment is dainty and extremely easy to make. All one has to do is to cut the material on the cross about four inches wide, fold it double and twist round and round to simulate a full-blown rose. Limp stems of different lengths are supplied by thin silk cord.

Shirred Walking Skirt.

The skirt that just clears the ground is a well-deserved favorite and is eminently fashionable in all its variations. The model illustrated is adapted to all ma-



ring and suits both the costume and the odd skirt. As shown, however, it is made of bleached Shantung pongee with applique of cream

represe lace. The box plaited effect while the shirrings confine the fullness over the hips and produce a

The skirt is circular, cut in one piece, and is arranged over a foundation yoke to which the shirrings are attached.

The quantity of material required for the medium size is 91/2 yards 21 inches wide, 71/2 yards 27 inches wide

Lettuce Cream Soup.

The outer leaves of lettuce may be utilized for this excellent soup. Puta generous pint of them over the fire in a pint of weak broth and cook tender. Rub broth and lettuce through a colander or vegetable press and reonion minced fine, a great spoonful ularly attractive on pongee parasols. New York News.

of butter rubbed up with one of flour, and a tablespoonful of finely chopped

Have ready in another saucepan a pint of milk heated and seasoned most nerve of all." with white pepper and salt. While the milk is boiling hot stir into it a well-beaten egg. Pour this mixture into the tureen, then the lettuce soup, give a few whirls of your egg beater to combine all, and serve.

For a Hot Day.

An unusual but refreshing desert for a warm night is composed of sliced bananas, oranges and shredded pineapple. These should be well powdered with soft sugar, thoroughly mixed and kept in the refrigerator all day to become thoroughly chilled. Serve with whipped cream and the result is invariably pleasing.

Cross Stitches on Shoes.

Cross stitch has invaded even the new bathing shoes, and some very attractive sandals seen at the shore are finished in this way. The canvas shoe is, of course, the best subject for the work, and stitchery must be in fast colors. White canvas can have decoration in black or red or blue, blue in white or red, etc.

Pretty Pin Cushions.

Pretty pin cushions are made to hang on the wall. A particularly pleasing device shows a pair of Cinderella slippers, which may be made from kid or silk and stuffed with cotton or bran. For the pins the cover is of silk and on the side devoted to hairpins the cover is crocheted in fine zephyr.

Green Stones Popular.

The general revival of green as a color has brought into favor a number of green stones of which little has been heard of late. Many of the prettiest of these are inexpensive. They make lovely chains, pendants, brooches and stickpins.

Girl's Costume.

Frocks that are pretty and simple at the same time are always in de mand for young girls and are much to be desired for school and everyday wear. This one includes a deep malice?-Boston Transcript.

pointed yoke-collar that is eminently graceful and becoming and is adapted to a variety of materials, but, as illustrated, is made of white lawn with frills of openwork embroidery and yeke of insertion held by fancy braid. The lawn and sim-

ilar washable fabrics are liked unlined, but when wool is used the fitted body lining is in every way desirable and the frills can be made from the material quite as well as from embroidery whenever

The frock consists of waist and skirt. The waist is made with front and backs that are full and arranged over the foundation when that is used, joined to the yoke when it is omitted. The sleeves are full and ample with straight cuffs and the yoke-collar falls well over the sleeves, giving the broad shoulder line of the season. The skirt is five gored, gathered at its upper edge and joined to the waist. and the closing is made invisibly at

The quantity of material required for the medium size (12 years) is 6 yards 27 inches wide, 51/4 yards 32 inches wide or 31/2 yards 44 inches wide, with 9 yards of insertion and 81/2 yards of embroidery to trim as illustrated.

Laundering Lace Curtains at Home. A practical housekeeper says that a clean grass plct is a very good substitute for curtain stretchers. After the curtains are cleansed, pin them to the ground with nonrust hairpins. They will dry in half an hour in the sun to look like new. Curtains of a very delicate fabric, or those tender from long use, should be inclosed in pillow slips to wash successfully without tearing.

Picturesque Menu Cards.

Some picturesque dinner and menu but I must confess I don't like Henry cards for out-of-town dinner-giving James's novels. take the form of small English hunting prints, after the manner of Calde- head at that. The people who don't cott. The deep reds and greens of like his novels are divided into two the effect, as a whole, is distinctly Press.

Novelty in Circular.

One of the latest novelties is a huge circular cloak of linen in creamy tone. similar to those worn by the Arabs. It is draped at the back to form a hood. The hood and front are rows?" trimmed with white linen galloon. It | "Oh, I have to use a machine gun makes an admirable evening wrap for summer.

Wicker Handles for Parasols.

Wicker is a new note in connection handles, and some of the smartest yourself.



Landlord Well Supplied. The young man suffering from overstudy arrived at the resort in the "lonely mountains."

"Ten dollars per day?" he gasped, reading the rates over the desk. "Certainly, sir," responded the suave proprietor. "I hope you will

understand that this is a nerve sanatorium." "I should say it is, and you have the

Equal to Emergency.



The Collector-What! Mr. Owing not in! Why, there he is, before my very eyes!

The Office Kid-Aw-wot! That ain't the old man. He's out! That's only his shadow!-Jester.

His Title There.

"My wife and I are going to spend the summer with her people at Strong's Corners," said the meek, little man, "and I want you to mail your paper to me."

"Yes," said the clerk; "what's your name?"

"Well-er-to make sure, I guess you'd better address it 'Mary Strong's Husband, Strong's Corners.' "

Regular Custom.

"Did you follow my advice and send your 'mint-julep' poem to the editor of that Kentucky magazine?"

"Yes; and he took it." "Of course he did. Didn't I tell you no true Kentuckian would decline a mint julep?"

"That's all right; but he paid me only 15 cents for it."-Judge.

Not Quite Certain.

fellow. He offered me a cigar just nothing did me any good except now." Butman-You didn't take it?

Gilroy-No.

Butman-Then how do you know whether it was liberality or merely

Natural Deduction. Attorney-What do you do during

he week? Witness-Nothing. Attorney-And on Sunday? Witness-I take a day off. Attorney-How long have you had a

His Secret.

political job? *

Raphael was explaining his fame. "It was easy," he confessed. "I simply told every woman on the block that I had painted my cherubs from hers."

Bitterly he regretted he had wasted his talents on art instead of shining in politics.-Harper's Bazar.



Mistah Jackson (at the cakewalk) -Look heah, niggah, doan' yo' laugh at me; doan' yo' laugh at me! Mistah Johnson-I ain't laughin'; my face jes' slipped!

The Reader.

Rieder-I suppose I'm a blockhead,

Crittock-You may not be a blockthese cards make a brilliant color classes-those who don't understand a frivolous wife he can at least poistouch for the country house table, and him and those who do .- Philadelphia on the dog.

> Hard Work Ahead. "Where are you bound now?" asked

Psyche of Cupid.

"The Atlantic coast resorts," replied Cupid. "But where are your bow and ar-

there It's gone on ahead of me.

Why He Tarried.

Harold-You shouldn't wait for something to turn up, old chap; you with parasols. It is employed for the should pitch right in and turn it up

ones of the summer are finished in Rupert-But it's my rich uncle's turn to the fire. Stir into it a boiled this way. Wicker handles are partic- toes, old chap, that I'm waiting for .-



WASH BLUE Costs 10 cents and equals 20 cent worth of any other kind of bluing. Won't Freeze, Spill, Break

Nor Spot Clothes ground in the water.

The Cause of Sleep.

The man who is kept awake by pain, or who suffers in any other way from lack of sleep, can usually obtain it by the use of a drug. 'Such sleep, however, is generally regarded as unnatural, and hypnotic drugs are avoided when possible. But now comes Mr. Raphael Dubois, a French physiologist, who tells us that all sleep is the result of drugging, the sleep-producer being carbonic-acid formed with in the system.

Weight of Dead Sea Water.

A gallon of distilled water weighs ten pounds, of sea water ten and threefourths pounds, of Dead sea water twelve pounds. There are eight and one-half pounds of salt in every 100 pounds of Dead sea water to two and four-fifths pounds in ordinary sea water.

Original Rough Riders.

The original Rough Riders antedated the pony express by several years. The Rifle Rangers themselves were rough riders, and Mayne Reid was a captain, leading in person many a gallant charge against the "greasers," Apaches, Commanches and Sioux.

Shouting Their Praises.

Friarpoint, Miss., August 22 (Special).-Cured of Bladder and Kidney Trouble after 26 years of suffering, Rev. H. H. Hatch, of this place, is telling the public the good news and shouting the praises of the remedy that cured him-Dodd's Kidney Pills.

Rev. Mr. Hatch says:-"I have been suffering from Bladder and Kidney Trouble for 26 years and I have tried everything that peo-Gilroy-Parsons is a liberal sort of ple said would do me good. But

Dodd's Kidney Pills. "I haven't felt a pain since I took Dodd's Kidney Pills. They gave me health and I feel like a new man altogether. Dodd's Kidney Pills are

the best I ever had." All Urinary and Bladder Troubles are caused by diseased Kidneys. The natural way to cure them is to cure the kidneys. Dodd's Kidney Pills never fail to cure diseased kidneys in any stage or place. They always cure Backache and they are the only remedy that ever cured Bright's Dis-

Unhappily there are virtues that one can only exercise when one is rich.-Rivarol.

FREE TO TWENTY-FIVE LADIES.

The Defiance Starch Co. will give 25 ladies a round-trp ticket to the St. Louis exposition to five ladies in each of the following states: Illinois, Iowa, Nebraska, Kansas and Missouri who will send in the largest number of trade marks cut from a 10-cent, 16ounce package of Defiance cold water laundry starch. This means from your own home, anywhere in the above named states. These trade marks must be mailed to and received by the Defiance Starch Co., Omaha, Neb., before September 1st, 1904. October and November will be the best months to visit the exposition. Remember that Defiance is the only starch put up 16 oz. (a full pound) to the package. You get one-third more starch for the same money than of any other kind, and Defiance never sticks to the iron. The tickets to the exposition will be sent by registered mail September 5th. Starch for sale by all dealers.

A woman never cares anything about the answers to the questions she asks.

For Your Perfect Comfort

At St. Louis Exposition, which is very severe upon the feet, remember to take along a box or two of ALLEN'S FOOT-EASE, a powder for Hot, Tired, Aching, Swollen, Sweating Feet. 30,000 testimonials of cures. Sold by all Druggists, 25c. DON'T ACCEPT A SUBSTITUTE.

Never play a horse that is too hightoned to run with the others. He has the habit.

If you don't get the biggest and best it's your own fault. Defiance Starch is for sale everywhere and there is positively nothing to equal it in quality or quantity.

If a man has a worthless dog and

Lewis' "Single Binder" straight 5c cigar. Made of ripe, mellow tobacco, so rich in quality that many who formerly smoked 10c cigars now smoke Lewis' "Single Binder." Lewis' Factory, Peoria, Ill.

The Tailor Took His Measure. "I was getting measured for a suit of clothes this mawning," said young

Mr. Sissy to his pretty cousin, "and fust for a joke, y'know, I awsked Snipem if it weally took nine taled and deaverto make a man. He said sale and sell to the take more than nine tailors Red Willow county, a man of some people. I of August, 1904, at the was quite clevah."—Exchant: The south half of

When somebody takes the north half of the of you, remember that there and, in Red Willow ty of bootblacks.—Philadelphi; 1904.

ord.

ABTREE, Sheriff.