

sides will secure the drainage; but when

CHANGING STREAM CHANNELS.

CHANGING STREAM CHANNELS. Natural water courses which cross the farm can be readily straightened by al-drainage, additional measures must be the soil and subsoil are not favorable to drainage, additional measures must drainage, additional measures must the court in which I re-side, agravel road has been made for twenty miles, near the Mississippi River enlarge a small channel, for nine times not think the action of the water will enlarge a small channel, for nine times in ten disappointment will be the re-sult. The changing of water courses of small streams is often of great value, in-creasing the tillable land and improving the appearance of the farm.—American Agriculturalist.

## WHEN TO KILL BRIARS AND BUSHES.

The idea that there is a certain time in the moon's age when briars, bushes and noxious plants are more easily killed

than at others is now very generally re-garded as fallacious. It is, however, true that when cut in the season of their The that when cut in the season of their most active growth they are more liable to die than when cut in the winter. The reason is that a far greater propor-tion of the sap and vitality of the plant being above ground and thus cut off and destroyed, there is a smaller power for recovery left than there would be if the utilize that covered at a season when cutting had occurred at a season when the growth is suspended, with the vitality largely in the roots. According to this, the cutting of briars and bushes during the summer months is likely to be the most effective. One cutting, wever, is seldom enough for the se m troublesome and persistent in their growth .-- New York World.

### SULPHATE OF COPPER FOR SMUT IN GRAIN.

By soaking seed-wheat in a weak soby soaring seed wheat in a weak sol-lution of copper, the dreaded suut can be averted. The sulphate of copper is used at the rate of one pound to 400 pounds of wheat seed, and is prepared by discaling in warm water. The by dissolving in 'warm water. The wheat should be in sacks which will admit the water, so that all the grain may get the benefit of the soaking. Three or four minutes is all the time required for the wheat to become thoroughly saturated, and when the sack is taken out of the mixture it should be placed in a draining trough to allow the water to escape. When the water in the barrel gets too low more can be added, and to gets too low more can be added, and to keep up the strength of the solution more sulphate of copper should be dis-solved and poured in the barrel now and then. This is not only a remedy for the smut in wheat, but for all grains subject to this disease. The sulphate of cop-per, also known as blue vitriol, is poi-sonous, and care should be taken that the stock get none of it, otherwise it might prove fatal. It does not seem to have any ill-effect on poultry and pigs. This remedy is in great use in the Pacific States .--- American Farmer.

CALF REARING.

says that after thirty years' experience in the rearing of calves on a large scale he has found it the most profitable branch If a change is to be made in the

has bound to the most prototole phatch of his business. It hardly needs to be added that he has made a business of it, that is to say, gone about it in a sensible and business-like manner, studying the conditions of success, and neglecting nothing likely to conduce to it. Some of his averagence may be useful to other: of his experience may be useful to others, and he has set a good example worthy of imitation in freely giving the public the benefit of it. Calves, this gentleman says, should never be allowed to lie out in open pastures during the first year of

r existence, but should be brought yards or sheds every night and tuted. allowed as much good old hay as they will eat. They should also be given the bucket the first thing in the morning be-fore they go out. For this latter pur-pose he mixes them a gruel made of best While ducks will remain all day on

bucket they go out. For this latter pur-pose he mixes them a gruel made of best Scotch oatmeal, at the rate of about a penny-worth per day, mixed with half a penny-worth per day, mixed with half a sollon of water, and given in V-shaped ten or twelve calves being allowed to feed together. This prevents them from filling themselves with stagnant ditch water and a lot of unsuitable green food, by which they get distended and liable to

various ailments, such as quarter ill, red water, and other things. The liquid water, and other things.

# HOUSEHOLD AFFAIRS.

BARLEY SOUP Excellent for sick people. Put a quarter of a pound of pearl barley to two quarts of water, boil it half away, add one cup of calf's foot jelly, and the juice of a Seville orange. A few spoonsful a day of this excellent drink will often pre-serve the life when the patient is unable to take anything else. It may be either sweetened with sugar or salted as a broth.—Farm, Field and Stockman.

MINCED CHICKEN WITH MUSHROOMS.

Chop moderately fine one pound of chicken. Cut one-half pound of mush-rooms in small pieces. Cover with water and let them boil. If canned mushrooms are used five minutes will be sufficient. Then skim out the mushrooms and set aside to keep them hot. Add, if needsubsoil decidedly gravelly, giving splea-did drainage. This gravel road is now eighteen years old, and has proved satisful, enough milk or cream to make a coffee cupful of liquid. Beat a table-spoonfol of flour in a little milk until eigniteen years old, and has proved satis-factory. The only means taken to se-cure drainage was to crown the roadbed a little in low places. To make a gravel road in this way over the greater part of the same country would be a waste of money, for in most places the soil is a block perice loam, and the subsoil a spoonfol of flour in a little milk until smooth and add a salt spoonful of sait, a scant half spoonful of pepper, and a tablespoonful of butter. Stir this mix-ture into the liquid, and when the whole has boiled three minutes add the mush-rooms and chopped chicken and cook three minutes longer, stirring continually. Serve on a hot platter.—American Farmer. black prairie loam, and the subsoil a tenacious clay. It has been found quite satisfactory It has been found quite satisfactory in most localities, having a black surface soil and clay subsoil, to lay a drain of tile along each side, near the edge of the roadbed. This has been found a better location than near the middle of the roadway. The office of the tile is to carry off water brought up from be-low rather than water sinking in from above. In some localities it is necessary to use three drains—one line of tile be-neath the center of the roadway, and one under each ditch at the side. It seems unnatural to put the tile under the

AN OMELET.

Farmer.

There are but few persons who seem to understand making the ome-let. The eggs will separate and grow watery, or the mass will appear heavy and soggy, more like scrambled eggs than the fluffy object of their ambition. A very simple and reliable recipe is three eggs, half a cup of rich milk, a pin<sup>th</sup> or salt and a little dust of pepper. Beat the eggs thoroughly, then add the other articles and one even teaspoonful of corn starch mixed with about one-fourth of a teamondul of behing rough fourth of a teaspoonful of baking pow-der. When this last is added, stir as quickly as possible and immediately pour into the buttered pan, which should be quite hot, but not so much so as to scorch the eggs. Do not attempt to turn the omelet over, but slide it about in the pan, letting the uncooked part come in contact with the hot surface of the dish until quite done. Serve hot.-The

pierced by a fork. At the end of the

macadam. When the surface is to be of earth only, the clay subsoil should be kept underneath, and the natural soil be A SAVORY VEAL PIE. placed on top. The surface soil will usually afford much better drainage than A veal pie is improved by adding a little ham, say one-half pound to a knuckle of veal. Just cover the meat the subsoils, and make a better road surface.-American Agriculturist. with water, put in one small onion, and simmer one hour. Cut four potatoes in-

to slices, cutting across the

FARM AND GARDEN NOTES.

seems unnatural to put the tile under the side ditches, but this location has been

When the roadbed is to be graveled

or macadamized, the crowning earth foundation should be nicely smoothed and then rolled until quite solid. It is well, also, in this case to put the clay

subsoil from the ditches on to the sur-face. When rolled, it makes a hard, smooth surface, almost impervious to water, and over which will flow, off to

the ditches at the sides, the rainwater that may sink through the gravel or

proved best.

A hen wants quiet while setting.

It is good economy to feed milk to poultry.

Stone drinking vessels are cooler than tin ones. Brains without industry won't pay the

mortgage off the farm. Wheat is rich in material for growth

and stimulates egg-laying. Young chickens especially are in-

clined to crowd on the roosts; prevent this. The best remedy for the ravages of the

asparagus beetle is a hen with a brood of young chicks.

in the crust, and pour in a hot sauce made from an ounce of butter, two ounces of flour, and half a pint of the A practical Straffordshire farmer, writ-ing to the British Agricultural Gazette, colt foaled so that both it and the dam broth of the meat. Season the sauce with salt, pepper, and chopped parslev --New York Post.

If a change is to be made in the rations of a chicken it should be done gradually, so that the system may have time to adapt itself to the change. It is best to save all egg shells to settle coffee

A good part of the care necessary with turkeys and ducks during the next To remove stearine, in all cases use pure alcohol. three months is to feed them enough to keep them coming home regularly.

To remove grease from silk goods wash away with ether. It will be more comfortable for the In cooking tough meat or an old fowl, add a pinch of soda to the water to make fowls during the warm weather if the heavy wooden door be taken off its hinges and one of fine netting substiit tender.

Pearl knife handles should be rubbed with a salt rag dipped in fine table salt, then polished with leather. A few extra dollars invested now in

Finger marks may be removed from varnished furniture by rubbing well with very little sweet oil on a soft rag.

HOUSEHOLD HINTS.

A little soap and warm water applied frequently is better for cleaning your lacquered brass than all the cleansing materials in the world. To select a fish see that the flesh is Much of the profit of the farm must

firm when pressed by the finger, and the eyes full. If the fish is at all stale the flesh will be flubby and the eyes sunken. It is said that if the woodwork in the kitchen is kept constantly scrubbed with water in which potash has been dissolved,

Eggs that have not been fertilized best, and for this and an



The dot and the stripe are ubiquitous Satin hats are extremely fashionable. Mme. Adelina Patti's diamonds alone ave been valued at \$375,000.

There's talk of admitting women to the Divinity School at Cambridge, Mass. Dark blue will be extensively worn this season, especially in the outing

Pink and yellow is the most popular this combination for evening gowns eason. Rouge was first used in Europe by

omen in the middle of the sixteenth century.

For many years a woman has been the engraver of medals-in the royal mint at Stockholm. In Kansas there are four cities in

which the vote of the women is larger than that of the men.

Many of the shot silk sunshades are edged with gold cord, each rib point holding a graceful loop.

Not a single accident has happened on the railroads in Holland since women were appointed switch tenders.

Queen Elizabeth, of Roumania, has completed at Pallauya a new volume of poems, entitled "Lake Songs."

In the new Drexel Institute in Pailadelphia a scholarship for Japanese wo-men has recently been established.

The richest heiress in Berlin, Germany, is said to be a Miss Hildegard von Lou-cadon. She is worth \$2,000,000.

Swedish women are said to excel in wood carving, lithography, modeling, decorative painting and art embroideries.

Queen Victoria 18 superstitious. She believes that articles manufactured by blind people bring luck to those who ise or wear them.

A pretty novelty is shown in lanterns, consisting of a porch lantern which is suspended from a bracket in the porch of the suburban home.

Sir James Crichton Browne, the fashionable London physician, said a month to slices, cutting across the potato, and cook them separately until they can be ago that it is far better for women to grow up healthy than learned.

A popular glove will be the pale yel-low wash chamois skin. They have been hour cut the veal from the bones and let it simmer an hour longer. Line a deep found to wash as well as the white ones. which will be worn quite as much as last

baking-dish or tin with plain paste, and cut the ham into dice. Into the bottom of the dish put a layer of potatoes, a layer of the yeal with a few bits of the year. Several women in Paris earn comfort ham, a sprinkling of chopped parsley, salt and pepper. When the materials are all used, roll out the top crust and able incomes by posing for sketch artists or before the camera for the composition of the fashion plates in expensive maga-

cut a hole in the centre. Lay over the dish and press down at the edges. Bake Mme. Marchesi, the famous "Italian" in a quick oven until the crust is a trifle vocal teacher, is German by birth, studied chiefly in England, and has her school in Paris. She is Italian only by own, then put a funnel in the opening marriage.

The endeavor to introduce one-button gloves has not succeeded, which fact rouses a faint hope that we are not quite the utter slaves of fashion which we appear to be.

The fruit knives of the present are works of art. Blades in long dagger-like shape; the handles the new Ameri-can enamel, with cherub and Dresden flower designs.

Boone County, Illinois, has a woman sheriff, Mrs. Ames, who discharges her duties, it is said, in a perfectly satisfac-tory manner, being both self-possessed and determined.

Mrs. Viola Fuller, of Mitchell, South Dakota, has made an opera cloak fifty-seven inches long from parts of the plumage of prairie chickens, only using five or six feathers from each bird.

The Emperor of Germany has request-ed the Minister of Public Instruction to prevent the admission to the art mu-seums of Berlin of young girls unless un-der the guidance of teachers or parents.

The female students at the Universities of Sydney and Adelaide, in Austral-asia, will soon outnumber the male. At present they number 108, viz.: seventy-eight in Sydney and thirty in Adel-

Shoplifting by women is said to be alarmingly on the increase in Paris, so

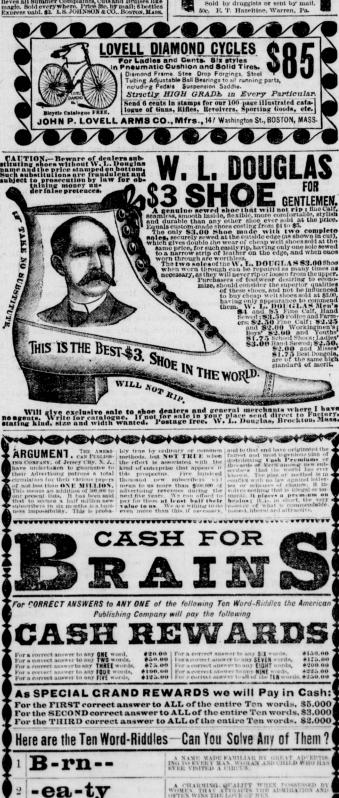


Something else, that pays the dealer better, may be offered as "just as good." Perhaps it is, for him, but it can't be, for you.



Flower since I have been in business than any other medicine I ever kept. Mr. Peter Zinville says he was made a new man by the use of August Flower, recommended by me. I have hundreds tell me that August Flower has done them more good than any other medicine they ever GEORGE W. DYE, Sardis, Mason Co., Ky.

DR. KILMER'S



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FABULE aft

DEAD

Bonnets are still small in the extreme

mixture is continued up to the middle of November, when they are brought in from the pastures and put on cake, a due allowance of which during the first winthe watche of which during the mark will ter is iadispensable to the future growth and well doing of every calf, whatever it may be intended for. These few hints may seem simple, but coming from a successful, practical man they are thor-merchic works and mark they are thoroughly worthy of attention.-Rural Canadian. work.

### BOAD DRAINAGE.

The one thing necessary to a good road—earth, gravel, macadam or paved —is thorough drainage of the founda-tion, declares John M. Stahl, of Illinois. tion, declares John M. Stahl, of Illinois. Money has been misapplied in road-mak-ing because of neglect of thorough drainage, even when the money has been used to build roads of a material that should give them a permanent character. On the Western prairies, where the nat-ural drainage is poor, undrained gravel roads have suddenly become mud roads when mu to the severe test of a long roads have suddenly become mud roads when put to the severe test of a long rainy spell in winter and early spring. Not the least unfortunate result of this has been a prejudice against gravel roads in particular, and a scarcely less pro-nounced distrust of permanent roads in general. Lack of drainage was the real cause of the failure. Whether the road is to be of earth, cause of the failure. Whether the road is to be of earth,

cause of the failure. The state of the failure is the test the failure is the state of the failure is the state of macadam, the earth roadbed should be graded, crowning it twelve to eight the state of the state o

eggs are to be stored away it is a good plan to take away the roosters ten days before commencing to save up the eggs. The new crop of wheat will come upon a market more nearly bare than for a long time before. This would appear to and fry. indicate a better price for the crop, but prophesying in such matters is uncertain

While, if properly managed, the storing away of eggs at this season for sell-ing in the winter can readily be made profitable, there is always some risk. The eggs do not bring as good prices as fresh

the chickens are a good aid. They pick up and turn to account many items that would otherwise be wasted.

The business of poultry-raising should never be spoken of slightly. Those who have tried it know that business ability, system and industry are essential to success. These are just the qualities de manded for success in other lines. cess.

## Tea-Chest Lead.

To sweeten salt pork, cut as many ices as you will require for breakfast and soak till morning in sweet milk and water; then rinse till the water is clear

You can tell if a bed is damp by lay-ing your hand glass between the sheets for a few moments. If the sheets are not properly dried the glass will be clouded.

Paper is a good and cheap material to eanse utensils. Knives rubbed with it preserve their brightness; stoves rubbed hard with it every morning will remain lean and bright and polish will be saved.

A capital wash for stained boards is made by boiling one-half pound of slaked lime and one pound of soda in six quarts of water for two hours. Let this settle, then pour off the clear part for use.

Carpets, if well sprinkled with salt hen wiped with cloth squeezed out of warm water containing a spoonful of spirits of turpentine to every quart, will look bright and new, and will not be troubled with moths and buffalo bugs.

To remove iron spots and black ink from white goods use hot exalic acid; dilute muriatic acid with little fragments of tin. On fast dyed cotton and wooler fabrics, citric acid cautiously and repeatedly applied; on silks nothing, as it is impossible to remove said stains from them.

## A Musical Watch.

A musical watch about the size of an egg is now exhibited in St. Petersburg which performs a religious chant, with scenic accompaniments. Within is a representation of Christ with the Roman scatinels. On pressing a spring the stone rolls from the tomb, the sentinels fall down, the angels amount and the stone rolts from the tomb, the sontinets fail down, the angels appear and the holy women enter the sepulchre, and the same chant which is sung in the Greek Church on Easter even is actually per-formed. The watch was made by an in-genious Russian persont during the reign of Catharing of Russia, --Philadelphis Ledger. Lodger.

much so that the justices have been instructed to be less lenient in future with rich women, and to punish kleptomania as severely as theft.

Two Turkish sisters have applied to Mrs. Potter Palmer for permission to serve Turkish sherbet, coffee and other beverages at the World's Fair. They will appear in the native costume and furnish their own supplies.

At Wellesley College the girls have five regular boat crews, besides any num-ber of "scratch" ones. The Seniors wear costumes of the color of pink clover and white, and maripulate their craft with remarkable skill.

The only soprano in the world who nakes higher notes than Patti is said to be Miss Sybil Sanderson, daughter of Judge Sanderson, of San Francisco. In addition to her musical powers she is said to possess charms of person and to be near observed. be very clever.

Annie Wilson Spence, adghter of a doctor of Linlithgow, passed the exam-ination of the Pharmaceutical Society in Edinburgh recently, and is now, regular-ly registered as a chemist and druggist. She is the second woman in Scotland to attain this honor an 1 position.

Several observant ladies have discovered that vegetarians have clear com-plexions, and have either renounced the use of meat entirely, or partake of it sparingly. Lady Paget, wife of the British Ambassador to the Austrian Court, is one of the recent converts to vegetaring the state of the second converts to



<b>PWAMD</b>	1	B-rn	A NAME MADE FAMILIAR BY GREAT ADVERTIS. ING TO EVERY MAN, WOMAN AND CHILD WHO HAS EVER VISITED A CIRCUS.
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