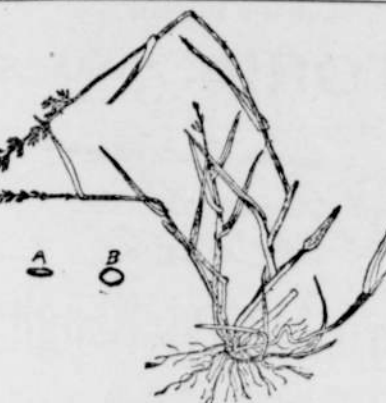


# FARMER'S CORNER.

## Flat-stemmed Bluegrass.

A correspondent writes to the Ohio Farmer inquiring the name for an enclosed sample of grass. The Farmer replies that the grass included with this letter is flat-stemmed blue grass, *Poa compressa* L. It grows in dense tufts, forming a thick but usually intermittent sward. It spreads by underground stems shown in figure, and hence often, in light soils, rapidly invades the meadows. It is a good grass in many respects, but is so much less productive than Kentucky bluegrass, *Poa pratensis* L., that many persons entertain a rather low opinion of its merits. The specific name, "compressa," refers to its flattened stems or culms, in contrast with the commonly cylindrical ones. This character, with its short blades and wiry stiffness, permits a ready recognition of flat-stem-



FLAT-STEMMED BLUEGRASS. med bluegrass; A, in the cut, is a cross section of a stem, and B, of an ordinary round stem grass.

## Cultivation and Apple Trees.

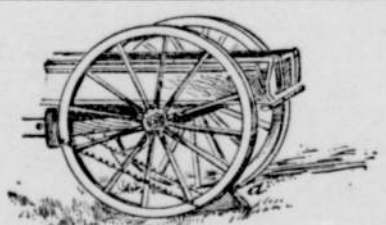
At the Nebraska station a study was made of the effect of cultivation on the growth of apple trees, the size of fruit and the water contents of the soil. A small orchard was divided into three parts, one of which was cultivated regularly and the other two left in grass and weeds, one of the latter being moved and the other pastured by hogs. The report says: "Trees in cultivated ground suffered noticeably less from the drought and hot winds of summer than those in sod ground. The foliage was darker and more vigorous in appearance, and there was no yellowing and dropping of the leaves, nor wilting during hot, windy days, both of which occurred with uncultivated trees. Apples from cultivated land averaged nearly 14 per cent larger in weight than those from pasture land and over 17 per cent larger than those from mowed land."—Grange Homes.

## How Salt Helps Fertility.

While the soda and chlorine of salt have no manurial properties, there is often a decided effect from using salt as topdressing for land that has organic matter. Only very small amounts are used per acre, and thus used the salt hastens decomposition, and this sets free whatever carbonic acid gas or ammonia the organic matter contains. Salt is usually thought of as a preservative. It is so when in amounts large enough to pickle what it is applied to. When carbonic acid gas is liberated, that acts as a solvent on the inert potash and phosphate that the soil contains, thus often serving in place of those minerals at much less cost than if they were bought and applied.

## A Brake Block.

This is used by teamsters in mountainous regions. A three-cornered block, a, of wood is fastened by chains or wires to the brake beam of a wagon so that it will drag on the ground about 2 inches behind one of the rear wheels of the wagon. The driver stops to rest his team, and instead of applying the brake the team is allowed to slacken its traces so the weight of the load will rest on the self-acting chock block.



EFFECTIVE BRAKE BLOCK.

When the team starts again the team merely has to start the load instead of having to pull against the brake until it can be loosened.—American Agriculturist.

## Gapes.

Since so many lose their chickens with this dreadful disease, if it may be called such, I will give what I consider a preventive, says a writer in Practical Poultryman. At from three to four weeks old I give a little water to drink that is very sour. Recently I did not have any, and at four weeks of age I found one chicken with gapes. I placed a basin on the stove with a little sour milk in it and after the curd had separated I let it sour a day or so and gave to my chickens, and have seen no more gapes since. Always have plenty of water by chickens so they will not drink too much.

## Small Celery Best.

There is a great difference in the quality of celery, and this makes the size a matter of comparatively little account. The giant varieties of celery are now superseded in favor of dwarf kinds that are crisp and nutty in flavor. Something, however, depends on the soil and method of growing. A moist soil makes the celery grow much fuller of its native juices than one which is

dry. The soil can hardly be too rich, for the quicker the growth the better it is, whatever the variety. Celery that is any way stunted becomes stringy, and if it is checked by drought it will have comparatively little of the characteristic celery flavor.

## Pruning Vines in Summer.

The chief art in gardening consists in not allowing our plants to have their own willful way, but to make them behave as we want them to. Vines generally make desperate attempts to get to the top of a bush or tree that they twine around, and the lower portion is nothing but a series of naked stems. When we set them to trellises we want this proceeding reversed. We desire as many branches close to the ground as at the extreme upper portion of the pole or frame on which they are supported. The educated gardener understands how to do this. The grower of grapes under glass has to know how to do it, as otherwise he would have grapes in the apex of the roof and nowhere else. He applies the same principle to the growth of flowering vines out of doors as to his grapes under glass, or to the grapes in the outdoor garden, for that matter, with equal results.

The art is very simple. It is simply to pinch out the apex of the strong growing shoots that want to get up still higher, and leave the struggling shoots at the base alone. The growth force, suddenly checked by the topping of the upper shoots, has to be expended somewhere, as the sudden stoppage of water being forced through a pipe may burst that pipe. It is diverted to the lower and weaker shoots, which become, before the season is over, as strong as the upper ones.

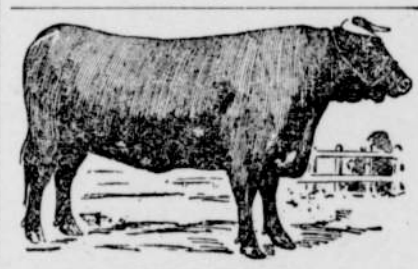
In the hands of a good gardener a grapevine trellis will have fruit over every part of its surface—and have as fine fruits at the apex as at the base. But how rarely do we see these masters of the art; and how simple the art is, after all.—Meehan's Monthly.

## Ventilation of Horses' Stables.

Good ventilation of stables with plenty of light should be provided for horses in summer. Many horses are kept in underground stables. This is very bad, especially in summer, when excrement rots very quickly, filling the stables with ammonia. This is very injurious to horses' eyes, especially if the stable be rather dark. This causes enlargement of the pupil of the eye, and the change to bright sunlight when the horse is brought out of the stable often results in making him blind. It is worse if there are one or two small windows where sunlight can come in. The underground stable should in summer be unused; it is tolerable only in cold weather.

## We'll Heifer.

The Welsh heifer shown in the picture is the property of Col. H. Platt.



WELSH HEIFER.

Gorddino, Llanfairfechan, Wales. She is the winner of first prize at the show of the Royal Agricultural Society of England in Birmingham.

## Feeding Clover to Fowl.

The very common advice to feed clover to hens as an aid to egg production needs to have a caution attached to it. If hens have grain with the clover they will not probably eat too much of the lighter food for their good. But exclusive reliance on cut clover as winter feed for a day or two may so clog the gizzard with light indigestible food that when grain is given it only makes the matter worse by furnishing more heating material to ferment in the crop. Wherever much grain is given to fowls they become too fat to lay, and it is such hens that are most likely to be crop bound.

## Ridding Land of Bushes.

Most farmers are infested to a greater or less extent with bushes, which are exhaustive of fertility and patience, and are unsightly. They are cut regularly each spring, but continue to come up and multiply. It is a fact not generally known that if they be grubbed up during "dog days," or at the time when they have about attained their growth for the year, 90 per cent. of them will be effectually killed and the rest so enfeebled that they will do but little harm the next season, and can be easily killed at the second grubbing.

## Fertilizing Growing Corn.

Top dressing with well-composted manure is fast coming to the front with our farmers for a growing corn crop. Try spreading when the corn is two feet high and you will find it works wonders. If droppings from the hen house are available, keep them dry; add some dry ashes if convenient, scatter along the row tightly and you will find it beats any brand of special commercial fertilizer.

## Kerosene for Killing Mosquito Larvae.

To be very effective the kerosene must cover the surface of the water where these pests develop to a perceptible depth. A mere film will not answer. The cost of this method will be prohibitive, except in thickly settled communities and on small bodies of water.

## Black Marsh soils.

Marsh soils are usually considered so rich that fertilizers are not necessary. Experiments show that they respond very well to applications of farmyard manure and often to coarse litter, if well worked in, but commercial fertilizers other than an application of potash have but little influence.

The old log house near Galesburg, Mich., in which General Shafter was born, is to be torn down and the property sold. During the fighting before Santiago the place was visited by hundreds of relic hunters, who carried away much of the structure as souvenirs.

## A Good-Luck Cross.

Recently discovered in the grave of Queen Dagmar is supposed to keep away evil influences. There is no more evil influence than ill health, and there is nothing which has so great a power to keep it away than Hostetter's Stomach Bitters, which cures dyspepsia and indigestion. A private Revenue Stamp covers the neck of the bottle.

James Bryce is making a study of the government of colonies by republics, which is to have special application to the United States.

## Beauty is Blood Deep.

Not skin deep—blood deep! Pure, healthy blood means pure, healthy complexion. Cascarets make the blood pure and healthy. Druggists, 10c, 25c, 50c.

The fastest flowing river in the world is the Sutlej, in British India, with a descent of 12,000 feet in 180 miles.

I believe Pilo's Cure is the only medicine that will cure consumption.—Anna M. Ross, Williamsport, Pa., Nov. 12, '95.

In the middle of a game of tennis in Central India the other day a tiger bounded into the midst of the players.

Special attention is called to the display advertisement on this page of the Dayton Hardware Company.

Until the reign of Henry VIII., English sovereigns, as well as their subjects, ate with the fingers.

Mothers will find Mrs. Winslow's Soothing Syrup the best remedy to use for their children during the teething period.

In Mexico school children are allowed to smoke in school hours when their lessons are well prepared.

Remember that you can buy Jesse Moore A. A. Whiskey for the same price that is paid for ordinary whiskey. For sale by all first-class dealers and druggists.

It has been observed in the hospitals that nails on amputated fingers continue to grow.

FITS Permanently Cured. No fits or nervousness after first day's use of Dr. Kline's Great Nerve Restorer. Send for FREE \$2.00 trial bottle and treatise. D. C. KLINE, Ltd., 900 Arch Street, Philadelphia, Pa.

Last year the tourists from the United States and elsewhere left over \$500,000 in Nova Scotia, and a great increase is fully expected this year.

Far away from civilization gesture language is still extant in Australia. Some of the tribes possess such an excellent code that it is almost as efficient as the spoken language.

## IN AND ABOUT A MINE.

Blind Lode—One that shows no surface croppings.

Placer—Alluvial deposits; earth containing gold dust.

Foot Wall—The lower wall or side of a lode or vein.

Cap-rock—The formation overlying the pay dirt or ore.

Wall—Boundary of vein, lode or ledge and inclosing the same.

Breasting—Taking ore from the face of a mine or head of a drift.

Adit—A tunnel or vein or lode—a passage for water underground.

Shaft—A vertical or incline excavation for prospecting or working mines.

Hanging Wall—The upper wall; the rock or wall resting on the lode or vein.

Deposit—A body of ore distinct from a ledge; a pocket of gravel or pay dirt.

Croppings—Ledge matter lying upon the surface, or the outcropping of a vein.

Upraise—Running a drift upward or rising above a shaft or level, instead of sinking.

Winze—A shaft connecting one drift level with another, but not reaching to the surface.

Horse—A mass of wall or rock or other barren matter protruding into an unbearing lode or fissure.

Contact Lode—A lode lying between two different kinds of rock, as, for example, porphyry and slate.

Bed-rock—The bed of a metalliferous deposit, commonly applied to the slate underlying auriferous gravel.

Drifts—Tunnels leading off from the main shaft, or from other tunnels or levels through and along the vein.

Lode—A longitudinal fissure or chasm filled with ore bearing matter and having well-defined side walls; lode, lead, vein and ledge are synonymous.

Reserves—Ore reserves are the vein material still standing in the mine between the shafts and the levels that have been driven in or through the vein.

## "A Good Name At Home"

Is a Tower of Strength Abroad." In Lowell, Mass., where Hood's Sarsaparilla is made, it still has a larger sale than all other blood purifiers. Its fame and cures and sales have spread abroad, and it is universally recognized as the best blood medicine money can buy. Remember

Hood's Sarsaparilla Never Disappoints

## HOITT'S SCHOOL.

Menlo Park, San Mateo Co., Cal., accredited at the Universities. Location, climate, and careful attention to Mental, Moral and Physical training, places Hoitt's among the foremost schools for Boys on the Coast.—S. F. Chronicle. Will re-open in the new building August 15th, (9th year.) Ira G. Hoitt, Prin. D., Principal.

It is best to beware how you tell your dreams. The very latest decision of person 'way up in Boston and psychology is that the true spiritual condition of the mind is revealed by the dreams rather than by waking experiences.

## Ladies Can Wear Shoes

One size smaller after Allen's Foot-Ease, a powder to be shaken into the shoes. It makes tight or new shoes feel easy; gives instant relief to corns and bunions. It's the greatest comfort discovery of the age. Cures swollen feet, blisters and callous spots. Allen's Foot-Ease is a certain cure for ingrowing nails, sweating, smarting, hot, aching feet. We have 30,000 testimonials. All druggists and shoe stores sell it. 25c. Trial package FREE by mail. Address, Allen S. Olmsted, Le Roy, N. Y.

Legal determination of what constitutes a spendthrift is likely to come out of a suit over a will in Chicago. T. W. T. Palmer, who was left an income of \$20,000 by the will of his mother, Mrs. Benedict, is suing for the estate, valued at some \$600,000; and the trustees allege that he is a spendthrift because he spent \$100,000 in two years, and offer to prove that he lost \$50,000 in three months on the New York Stock Exchange. Whether losing money in this way makes a man a spendthrift will then be left for the jury to determine.

## HOW'S THIS.

We offer One Hundred Dollars Reward for any case of Catarrh that cannot be cured by Hall's Catarrh Cure.

F. J. CHENEY & CO., Props., Toledo, O. We the undersigned, have known F. J. Cheney for the past 12 years, and believe him perfectly honorable in all business transactions, and financially able to carry out any obligations made by him.

## WEST & THACK.

Wholesale Druggists, Toledo, O. WALKING, KISSAM & MATVIN, Wholesale Drugists, Toledo, O. Hall's Catarrh Cure is a certain cure for the system. Price 75c per bottle. Sold by all druggists. Testimonials free. Hall's Family Pills at the test.

The London Daily News says that the Russian man-of-war Gerzog Edinburgskij, whose officers and men were recently the recipients of Swedish courtesy at Karlskrona, reciprocated by secretly taking soundings, under cover of darkness, until they were discovered by the governor of the fortress Karlskrona, is the chief naval station of Sweden; its approaches are well fortified by modern naval defenses, and it has also a ship channel which is difficult of navigation.

## NO REMEDY EQUALS PERUNA.

SAY THE WOMEN ALL SAY



Miss Susan Wyman.

Miss Susan Wyman, teacher in the Richmond school, Chicago, Ill., writes the following letter to Dr. Hartman regarding Peruna. She says: "Only those who have suffered as I have, can know what a blessing it is to be able to find relief in Peruna. This has been my experience. A friend in need is a friend indeed, and every bottle of Peruna I ever bought proved a good friend to me."—Susan Wyman.

Mrs. Margaretta Dauben, 1214 North Superior St., Racine City, Wis., writes: "I feel so well and good and happy now that pen cannot describe it. Peruna is everything to me. I have taken several bottles of Peruna for female complaint. I am in the change of life and it does me good." Peruna has no equal in all of the irregularities and emergencies peculiar to women caused by pelvic catarrh.

Address Dr. Hartman, Columbus, O., for a free book for women only.

Remember that cholera morbus, cholera infantum, summer complaint, bilious colic, diarrhoea and dysentery are each and all catarrh of the bowels. Catarrh is the only correct name for these affections. Peruna is an absolute specific for these ailments, which are so common in summer. Dr. Hartman, in a practice of over forty years, never lost a single case of cholera infantum, dysentery, diarrhoea, or cholera morbus, and his only remedy was Peruna. Those desiring further particulars should send for a free copy of "Summer Catarrh." Address Dr. Hartman, Columbus, O.

It takes a snail 14 days and five hours to travel a mile.

# Biliousness

You're bilious, you have a throbbing sensation in your head, a bad taste in your mouth, your eyes burn, your skin is yellow with dark rings under your eyes, your lips are parched and you feel ugly and mean, as if you wanted to kick a lame infant or kill a canary bird. Your system is full of bile not properly passed off, and what you need is a cleaning up inside. Don't continue being a bilious nuisance to yourself and those who love you, but send out at once for a box of Cascarets and feel bright and cheerful all the time.

**Be sure you get CASCARETS! Don't let them sell you a fake substitute!**

THIS IS  
  
THE TABLET

ANNUAL SALES, 5,000,000 BOXES.

THEY WORK WHILE YOU SLEEP

10c.  
25c. 50c.  
DRUGGISTS

CASCARETS are absolutely harmless, a purely vegetable compound. No mercurial or other mineral pill-poison in Cascarets. Cascarets promptly, effectively and permanently cure every disorder of the Stomach, Liver and Intestines. They not only cure constipation, but correct any and every form of irregularity of the bowels, including diarrhoea and dysentery. Pleasant, palatable, potent. Taste good, do good. Never sicken, weaken or gripe. Be sure you get the genuine! Beware of imitations and substitutes! Buy a box of CASCARETS to-day, and if not pleased in every respect, get your money back! Write us for booklet and free sample! Address: STERLING REMEDY COMPANY, CHICAGO or NEW YORK.

The oldest university in the world is at Peking, China. It is called the "School for the Sons of the Empire." Its antiquity is very great, and a granite register, consisting of stone columns, 320 in number, contains the names of 60,000 graduates.

## A TRUE BLOOD-MAKER

There's more in keeping the stomach in proper condition than most people suppose. It is the stomach that the blood receives its health or sickness.

## Moore's Revealed Remedy

Aids the stomach in making rich, healthy blood. It aids digestion and builds up the nervous system. \$1 per bottle at your druggist's.

## CARTER'S INK

Is what Uncle Sam uses.

## TEETH WITHOUT PLATES

Roots Crowned, Bridges Made. Painless Filling and extractions. Dr. T. H. White, 271 1/2 Morrison, Portland, Or.

## PISO'S CURE FOR CONSUMPTION

## PORTLAND DIRECTORY.

### Fence and Wire Works.

PORTLAND WIRE & IRON WORKS: WIRE and iron fencing; office railing, etc. 344 Alder.

### Machinery and Supplies.

CAWSTON & CO.: ENGINES, BOILERS, Machinery, supplies. 48-50 First St., Portland, Or.

## MACHINERY. ALL KINDS

J. TATUM & BOWEN...

29 to 35 First Street PORTLAND, OR.

JOHN POOLE, PORTLAND, OREGON, can give you the best bargains in general machinery, engines, boilers, tanks, pumps, stoves, belts and windmills. The new steel I X L windmill, sold by him, is unequalled.

Wholesale Druggists and Photographic Supplies.

ELUMAUER-FRANK DRUG CO. 144 AND 146 Fourth Street, Portland, Oregon.

## IF CLAIMANTS FOR PENSION

Write to NATHAN RICKFORD, Washington, D. C. They will receive quick replies. R. M. N. H. Vols. Staff 20th Corps. Prosecuting claims since 1878.

## Rupture

Corrected scientifically and confidentially. Correspondence solicited.

C. H. WOODWARD & CO., 108 Second St. Portland, Or.

## SURE CURE FOR PILES

It is the only reliable, permanent and certain cure. This form, as well as Blind, Bleeding or Protruding Piles are cured by Dr. Bosanko's Pile Remedy. Stages itching and burning. Also the tumors. Send for sample free, or full box for 25c. DR. BOSANKO CO., Philadelphia, Pa. Sold by Druggists.

## TO FLIES AND MOSQUITOES

Dayton's Insect Killer will clear the house of them. Price 5c. Write for booklet. Agents wanted. Address: DAYTON HARDWARE COMPANY, Portland Oregon.

## DR. GUNN'S IMPROVED PILLS

ONE FOR A DOSE. Cure Sick Headache and Dyspepsia, Remove Pimples and Purify the Blood, Aid Digestion and Prevent Biliousness. Do not Gripe or Sicken. To convince you, we will mail sample free, or full box for 25c. DR. BOSANKO CO., Philadelphia, Pa. Sold by Druggists.

## DR. MARTEL'S BOOK

"Relief for Women" Sent free in plain wrapper. Write to-day for this book, containing Particulars and Testimonials of 100,000 LADIES. French Female Pills. Sold by all druggists, metal box. French Drug Co., 361 & 363 Pearl St., New York City.

## ...GO EAST...

—VIA—

## GREAT NORTHERN RAILWAY

Through Palace and Tourist Sleepers Dining and Buffet Smoking Library Cars.

...FAST TIME... Service and Scenery Unequaled. For Tickets and all information apply to your nearest agent, or address:

A. B. C. DENNISTON, C. P. and T. A., Portland. R. C. STEVENS, G. W. P. A., Seattle.

## CURE YOURSELF!

Use Big C for unnatural discharges, inflammations, irritations or ulcerations of mucous membranes. Painless, and not satiating or poisonous.

Sold by Druggists, or sent in plain wrapper, by express, prepaid, for \$1.50, or 3 bottles, \$2.75. Circular sent on request.

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