

## NOTES FROM MEADOWBROOK FARM



Get a road drag and then drag.

The lazy hen is not apt to be the layer.

Cleanliness is essential to successful poultry raising.

Do your hauling in the mornings when the ground is firm.

The care of bees is a healthy, easy and profitable work for women.

The good brood sow should be kept as long as she is able to raise a good litter.

Oil meal is 32 per cent. protein. A little in each feed for the cows is excellent.

Spread the manure as fast as it is made. The manure spreader makes the task an easy one.

It has been said that a horse is no better than the feet he stands on. Look well to the hoofs.

It is wet, not cold, which hurts sheep. Keep them dry and they can stand lots of cold weather.

Two-year-old geese are best for breeding purposes. Sell off the surplus stock. It won't pay to winter.

The low-wheeled wagon will prove a mighty handy thing on any farm. Get a set of low-down wheels and try them.

The man who keeps no stock because feed is high makes a mistake from which both his land and his pocket book will suffer.

The road drag is one of the tools which should not be put away. Keep it going over your strip of road every good chance you get. It is especially effective after rains.

Plan to lay in a supply of ice this winter. Get a place ready to store it. A good serviceable house can be put up cheaply, and enough ice stored to last all next summer.

How about the dust bath for the hens during the winter. Place the box where it will get the sun and then watch the joy of the hens as they revel in the soft, powdery stuff.

This is the season when you ought to be planning out the next season's work. Take pride in having your road team look sleek and trim. Rub wagon is old and shabby, and you do not feel able to buy a new one, paint and fix the old one up.

Don't expect to improve your stock without expense. The cost of the scrub cannot in any sense be taken as the measure of cost of producing the thoroughbred. Just as the improved animal is intrinsically worth more money to the buyer, so it is unreasonable to suppose that it should not cost more money.

Seed corn should be selected from that which matured before the first frost and which has been thoroughly dried and then kept in a dry place. Late corn, or corn stored when it contained a considerable amount of moisture, is likely not to be fertile, because freezing tends to kill the germ when moisture is present.

When the daily vessels to be scalded are cold, remember that the first application of boiling water does not scald them properly, the coldness of the tin reducing the temperature of the water below the scalding point. The only certain way of scalding tin pails and pans is to apply the scalding water after the vessels have been heated by a preliminary rinsing in hot water.

The government is making experiments in the practical value of shelter belts of trees for homesteads, stock buildings, and orchards. Something for you to think about. Are your buildings or orchard so exposed to the bleak winds of winter and the violent winds of summer as to suffer? Trees of the right kind, planted in the best way and the best place will mean not only comfort but profit.

If a farmer sells hogs at ten dollars and buys them back in the shape of ham, bacon and pork at \$18, why should it not pay him to butcher and pack meat for his own use? And if the handsome profit of eight dollars per hog over the live selling price can be realized for himself why would it not be profitable to pack twice or three times as much as he needs for himself and sell it? Perhaps it would pay him to figure on butchering 30 or 40 hogs and curing and packing the meat.

In tying wool do not use sisal twine, use hemp. The former will hurt the sale of your product and for this reason. Small bits of the sisal fiber get into the wool and not taking dye, must be picked out by hand. This occasions a loss of sometimes as much as five cents per pound, which must eventually come from the producer since manufacturers learn what sort of stuff is to be expected from a region and bid for it accordingly. The twines recommended for use are: No. 1 hemp, or small linen.

Up and at the hard task. It will never do itself.

Keep the road drag busy after every rain or soft spell.

Rye pasture is good for hogs. Remember this next season.

The run-down animal is hard to bring back to normal condition again.

When lean pork is desired, more protein feed and less corn should be fed.

Spring time is grafting time. Cut the scions the latter part of the winter.

In breeding sows there is great economy in having the litters come near together.

Increase the fertility of your land if you would have increased crops and an increased bank account.

Every farmer's boy ought to be ambitious to bet a course of training at the state agricultural college.

Galls and sores on horses nine times out of ten result from ill-fitting harness. A little care will prevent it.

A scratching shed for the hens with lots of sunshine, is a necessity if you are to get the best results from your flock.

With any new feed begin slow. A radical change in diet is always a shock to an animal and does them no good.

With feed high there is all the more necessity for providing good, warm, light stables to get the most out of the feed.

After tests, the Nebraska experiment station finds that alfalfa hay produced ten per cent. more milk than prairie hay.

Now is the season when the dairy farmer with his silo full of well-matured corn is going to reap the benefits of his efforts.

A brush is preferable to a cloth in cleaning milk utensils, because the brush gets into the corners and crevices as the cloth cannot.

If the stable has not been white-washed do it the first warm day. It will sweeten things up and make the stable more fit for the horses.

Be sure and provide some succulent feed for the poultry during the winter. Care in this direction will make for healthier hens and more eggs.

Hot water fomentation of the bruised or congested udder is the best treatment that can be given. Be persistent and you will get results.

Here is how one man manages to plow and harrow at the same time. He hitches one horse to a single section of the harrow and ties the halter to the furrow horse's singletree.

Be sure the chickens get plenty of water during this freezing weather. Don't compel them to peck through the ice to satisfy their thirst. See that water with the chill taken off is provided.

Even though the margin of profit realized on your stock over the price of the feed consumed is small, remember that the manure left behind by the animal represents a money value which is worth considering.

A farmer who has tried it says that sweet clover can be killed out of an orchard by plowing the ground and giving the orchard clean cultivation two or three seasons. Mowing the clover frequently during the summer and letting the stalks lie on the ground will prove effective, also, it is said.

Insist on cleanliness in those who do the milking. Before milking they should wash their hands with soap and should then thoroughly dry them. The finger nails should also be cleaned. As little dust as possible should be stirred up. Dust from moldy hay will float around and fall into the milk.

We are sorry to say it, but with most farmers it is purely guesswork as to whether his cows are paying their way or not. They are strangers to the milk scales and the Babcock tester, and they do not care for any new ideas about balanced rations, use of silage, etc., and the result is that they barely grub out a living. But thank goodness such farmers are growing less every year.

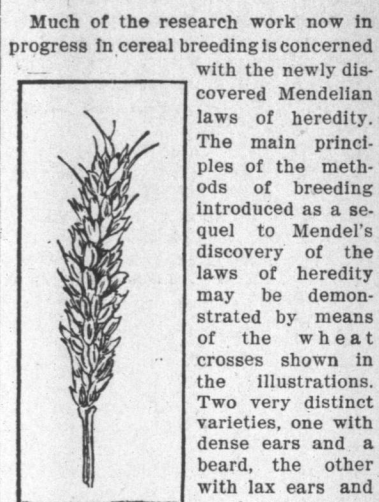
The henhouse should have movable roosts and dropping board. The dropping board should be made of smooth lumber for easy cleaning, and be placed not higher than three feet from the floor so that heavy fowls may easily fly up to it and not injure themselves in jumping from it. The space on the floor under the dropping board will be clean and give more room for the fowls for exercise on cold or stormy days.

Some farmers who go off on a trip leaving the wife home to run things on the farm can't get away from the notion that they're the ones that need rest and sympathy when they are at home, as is suggested by the following story from the New York Herald.

Mr. Farmer, as you read it ask yourself the question: "Does the story hit me?" The owner of the farm had been enjoying himself at the county fair while his hard-working wife stayed at home to see that the farm suffered no loss in his absence: "Well, Sarah," said the owner upon his return, "I'm about all tired out. Is the cows in the barn?" "Yes, long since," replied his wife, barely looking up from the task then in hand. "Is the horses unharnessed and fed?" "Yes." "Chickens locked up?" "Yes." "Wood chopped for morning?" "Yes." "Wagon wheel mended and ready to start in the morning?" "Yes." "Well, then," concluded the exhausted owner, with a sigh of relief, "let me have my supper. I'm going to turn in." "The farm's beginning to tell on me," said the wife.

## AS TO THE SCIENTIFIC BREEDING OF WHEAT

Principles Involved—The Development of Mendel's Laws of Heredity.



First Cross.

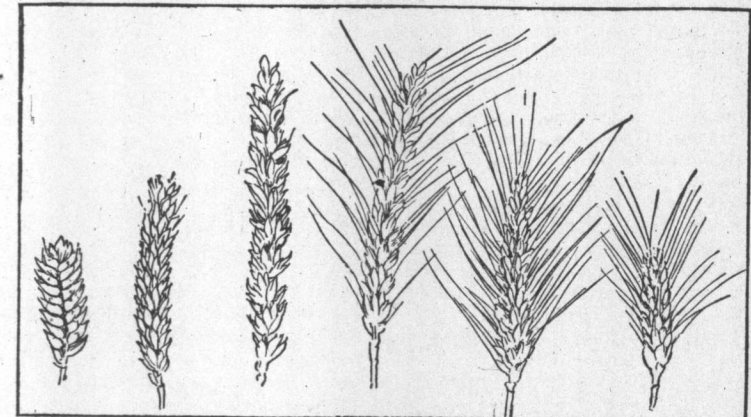
Much of the research work now in progress in cereal breeding is concerned with the newly discovered Mendelian laws of heredity. The main principles of the methods of breeding introduced as a sequel to Mendel's discovery of the laws of heredity may be demonstrated by means of the wheat crosses shown in the illustrations. Two very distinct varieties, one with dense ears and a beard, the other with lax ears and no beard, were crossed together and gave the type shown in the figure with beardless ears intermediate in shape between the lax and dense parents.

generation consists of three beardless to one bearded plant. The latter (d), the "recessive," all breed true to type, but two of the three beardless types are constitutionally beardless and bearded (b and c), and consequently break up in the following generation, while the third (a) formed by the union of the beardless reproductive cells only, breeds true to type. In this way the puzzling fact that two individuals apparently perfectly similar to one another, give when bred from,



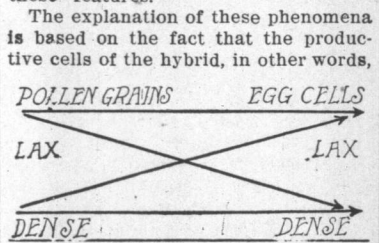
Parent Varieties.

different results, finds a ready explanation. The one is a pure extracted "dominant," the other a hybrid, showing the dominant character to the complete exclusion of the alternative recessive. There are many cases where external appearance is unfortunately



Immediate Descendants of First Cross.

intermediate and dense individuals in the same proportions. Subsequent generations tell precisely the same story, and we have to recognize the fact that the lax and dense types produced in the first generation raised from the hybrid plant are, in spite of their parentage, pure with regard to these features.



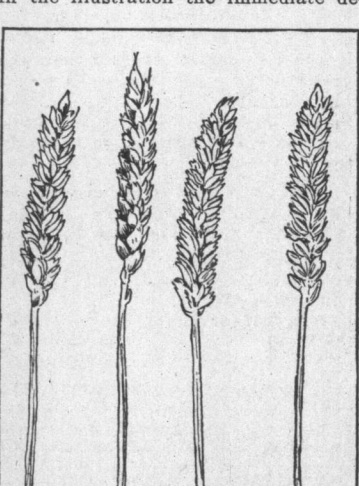
The Chances of Combination.

the egg cells and pollen grains, carry either the lax or the dense character, and not, as perchance the outer form of the plant would suggest, a blend of the two. (In the case of wheat the egg cells are fertilized with the plant's own pollen.) We can show the chances of combination of pollen grain and egg cell diagrammatically as follows, presuming that an approximately equal number of each carry either the lax or dense character:

There are only four possible combinations, lax and lax, lax and dense, dense and lax, and dense and dense. Lax meeting dense, or vice versa, we know from the original cross, gives intermediate, so that this generation will consist of, on an average, one lax individual to two with intermediate ears to one with dense ears. Further, owing to the fact that the individuals produced from the union of lax-carrying and also from the union of dense-carrying reproductive cells, have not the alternative characters present in their constitutions, they breed true to laxness or denseness. The intermediate formed by the union of the alternative lax and dense characters cannot be fixed. We recognize, then, that the intermediate shape is in this case a distinguishing feature of those individuals carrying the two alternative characters in their reproductive cells. The mere fact that this can be recognized at so early a stage is one which the sequel will show to be of great value to the practical breeder.

We are now in a position to consider the inheritance of the bearded and beardless condition, neglecting now the question of whether individuals are lax or dense or intermediate in ear shape. In the first cross the ears bore no more beard than the beardless parent. The beardless condition is thus described as "dominant." The intermediate descendants of this hybrid were either beardless or bearded individuals in the proportion of three of the former to one of the latter. No half-bearded individuals occurred in this or in subsequent generations. The mode of inheritance of this pair of features thus appears to be very different to that of the preceding pair, but in reality the difference is slight. Recalling the fact that the reproductive cells of the hybrid carry either the beardless or bearded character, we find that the possible combinations of the pollen grains and egg cells are: (a) beardless and beardless, (b) beardless and bearded, or (c) vice versa, and (d) bearded and bearded. The combination of gametes carrying the beardless and bearded conditions (b and c) gives (see first cross) a beardless plant, so that, on the average, this

no guide whatever as to purity of breed, and the introduction of an apparently pure individual may often be traced as the starting point of a sporting or reversion in unimpeachable flocks and herds. With these two cases before us we can place together the full story of this particular cross. In the illustration the immediate de-



Hybrid Combining Quality, Yield and Good Straw.

scendants of the hybrids are seen to be either lax, intermediate, or dense, with regard to ear shape, and each of these types is represented by beardless or bearded individuals. Two of them resemble the parent varieties, while the remaining four are distinct. The question of moment to the practical breeder is whether these new forms can be fixed. Those with the intermediate shape of ear may be at once rejected as hopeless, leaving the beardless dense and the bearded lax types for further examination. The recessive character, i. e., beardlessness, we have already seen, breeds true, laxness also breeds true, so that the combination of laxness and beardness should be true from the moment of its appearance. Many experiments have proved this to be the case.

### PRUNING GRAPES.

The Vines Should Be Attended to at the Proper Time.

Grape vines, unlike many other vines, trees and shrubs, can be pruned without injury only when they are in a deep dormant condition. At any other time the upward flow of sap is so strong that it will flow out of the wounds and cause what is called "bleeding" which impairs the vitality of the plants.

The time to prune grape vines is soon after they have dropped their leaves and the whole plant becomes dormant, preferably with a falling temperature before mid-winter. If pruning is done while leaves remain on some of the branches, and the weather is mild, sap is liable to flow to the remaining branches and cause swelling of buds which will be caught by frost. The work must not be delayed till late winter or early spring, since the very first warm spell will cause the sap to flow and the wounds to bleed. In northern and central latitudes from the middle of November till the last of January is the best time for the work. In southern latitudes it should be done in mid-winter when it is known that the vines are wholly dormant.

### RECIPE FOR REAL TROUBLE.

Cheerfully Contributed to an Already Unhappy World.

Trouble making is an older industry than the manufacture of steel. Cain, the trouble maker, got into action before Tubal Cain, the iron worker; and Eve got Adam into hot water long before the Boiler Makers' union began business.

There are three kinds of trouble—imaginary, borrowed and real. Imaginary trouble consists of railroad accidents, earthquakes, fires, suicides, the porchouse, death, and the grave, carelessly mixed and taken after a late dinner, or a drop in the stock market.

Borrowed trouble is the kind we get from our relatives. Its principal ingredients are visits, borrowed money, birthday presents, advice and expectations. But the real article is produced as follows: Put the sandals of endurance on your feet, take your life in your hands and follow by turn the How-to-Be-Happy Philosopher, the Preacher of Physical Culture and the Apostle of Diet.—Puck.

### TORTURED SIX MONTHS

By Terrible Itching Eczema—Baby's Suffering Was Terrible—Soon Entirely Cured by Cuticura.

"Eczema appeared on my son's face. We went to a doctor who treated him for three months. Then he was so bad that his face and head were nothing but one sore and his ears looked as if they were going to fall off, so we tried another doctor for four months, the baby never getting any better. His hands and legs had big sores on them and the poor little fellow suffered so terribly that he could not sleep. After he had suffered six months we tried a set of the Cuticura Remedies and the first treatment let him sleep and rest well; in one week the sores were gone and in two months he had a clear face. Now he is two years and has never had eczema again. Mrs. Louis Leck, R. F. D. 3, San Antonio, Tex., Apr. 15, 1907."

### THE QUARREL.



Her—Why on earth did you every marry me?  
Him—Oh, don't be so bromidic! That's what everybody asks.

### Ready with the Answer.

Miss Baxter, feeling the effects of a torrid afternoon in June, was attempting to arouse the interest of her languid class by giving, as she supposed, an interesting talk on the obelisk. After speaking for half an hour she found that her efforts were wasted. Feeling utterly provoked, she cried: "Every word that I have said you have let in at one ear and out of the other. You"—pointing to a girl whom she thought had been particularly inattentive throughout the entire lesson—"tell me, what is an obelisk?"

The pupil, grasping the teacher's last words, rose and promptly answered: "An obelisk is something that goes in one ear and out the other."—Success Magazine.

### An Opinion Confirmed.

"That's the toughest piece of steak I ever struck," said the man in the restaurant.  
"I guess you're right, sir," replied the waiter; "the man who had it before said the same thing!"

One Thing That Will Live Forever, LEWIS' EYE SALVE, first box sold in 1877, 100 years ago, sales increase yearly. All druggists or Howard Bros., Buffalo, N. Y.

Later on some of our street contractors may get a chance to repair some of those pavements made of good intentions.

Lewis' Single Binder straight 5c cigar is good quality all the time. Your dealer or Lewis' Factory, Peoria, Ill.

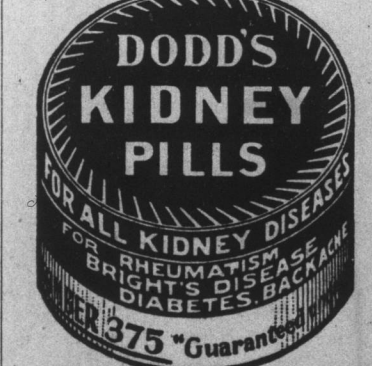
When the members of a standing committee meet they usually sit down.

Mrs. Winslow's Soothing Syrup. For children teething, softens the gums, reduces inflammation, allays pain, cures wind colic. 30c a bottle.

To feign a virtue is to have its opposite vice.—Hawthorne.

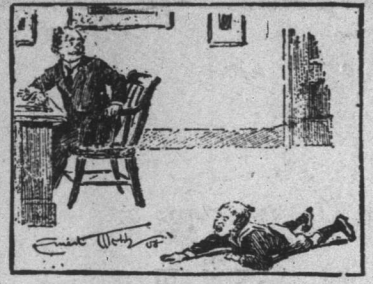
If Your Feet Ache or Burn get a box of Dodds' Kidney Pills. It gives quick relief. Two million packages sold yearly.

A tiresome speech is apt to be a cheerless affair.



50 CENTS  
BLOCH'S  
TOBACCO  
COUPON IN EACH PACKAGE

### WHAT WOULD HE HAVE SAID?



"Get up, Jack. You mustn't cry like a baby! You're quite a man now. You know if I fell down I shouldn't cry, I should merely say—"

"Yes, I know, pa; but then—I go to Sunday school—and you don't."

### News from the Settlement.

"We are not exactly happy on the way, but we are not too mean to shout 'Amen' when the rest of the world cries 'Halleluia!'"

"Just how the editor knew we had 'possum for dinner last Tuesday is more than we can tell, but he came just in the nick of time and dined with us."

"We have much for which to be thankful. We raise our own turkeys, but turkey for dinner is so common in our settlement that we sometimes forget to thank Providence for it."

"There is no news to speak of, except that we'll all build up this old country if we keep the saw in the log, and keep the sawdust flying."—Atlanta Constitution.

### The Changing Times.

Times have changed since 450 years ago, when Halley's comet, for whose reappearance astronomers are now looking, was in the heavens. Then the Christian world prayed to be delivered from "the devil, the Turk and the comet." Now it says the devil is not as black as he has been painted, the Turk is a negligible quantity and the comet would be rather welcome than otherwise.—Boston Transcript.

### 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., Toledo, O. We, the undersigned, have known F. J. Cheney for the last 15 years, and believe him perfectly honorable in all business transactions and financially able to carry out any obligations made by him. WARDEN, KINMAN & MARTIN.

Hall's Catarrh Cure is taken internally, acting directly upon the blood and mucous surfaces of the system. Testimonials sent free. Price 75 cents per bottle. Sold by all Druggists.

Take Hall's Family Pills for constipation.

### A Death Each Second.

The number of deaths in the world annually is 33,333,333, or 91,954 per day, 3,730 per hour, 60 per minute, or one per second. It is estimated that the population of the earth at the present time is being increased at the rate of about 16,500,000 annually.

### Important to Mothers.

Examine carefully every bottle of CASTORIA, a safe and sure remedy for infants and children, and see that it bears the Signature of *Dr. J. C. Watson*.

In Use For Over 30 Years. The Kind You Have Always Bought.

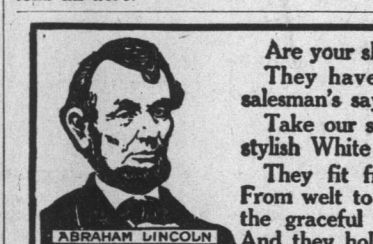
### Perhaps.

"He caught me in the dark hall last night and kissed me."

"I guess that will teach him to keep out of dark halls."—Houston Post.

Lewis' Single Binder straight 5c cigar made of rich, mellow tobacco. Your dealer or Lewis' Factory, Peoria, Ill.

A four-foot coal seam yields 6,000 tons an acre.



### WHITE HOUSE SHOES.

FOR MEN, \$5.50, \$4.00, \$3.00 and \$2.00. FOR WOMEN, \$3.50, \$4.00 and \$5.00.

Best Brown Blue Ribbon Shoes for youngsters. Ask your dealer for them.

THE BROWN SHOE CO., Makers ST. LOUIS

Are your shoes going down hill? They haven't lived up to the salesman's say-so. Take our say-so this time. Get stylish White House Shoes. They fit from tip to counter. From welt to top face, they meet the graceful shape of your foot. And they hold that shape.

### To California

Across Salt Lake by Rail

Via

### The Overland Limited

Famous Here and Abroad Leaves Chicago Daily

Composite Observation Car, Pullman Drawing-room and Compartment Cars, Dining Cars; all electric lighted and well ventilated. Library, Smoking Rooms—everything pleasant—makes your journey delightful. No excess fare.

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E. L. LOMAX, G. P. A. Omaha, Neb.

### PUTNAM FADELESS DYES

Color more bright and faster colors than any other dye. One 10c package colors all blues. They do in cold water better than any other dye. You can dye garments without rinsing apart. Write for free booklet—How to Dye, Bleach and Mix Colors. MONROE DYE CO., Chicago, Ill.

### A DESERVED PROMOTION.

F. R. Pechin, for the past several years Supt. of the Wisconsin Division of the C. & N. W. R. Y., has been tendered and has accepted the position of General Superintendent of the C. St. P. M. & O. R. Y., with headquarters at St. Paul. Mr. Pechin was born in Pennsylvania and began his railway career with the North-Western as brakeman at Chicago in 1880. By sheer force of ability, coupled with hard work, he rose rapidly, occupying by successive stages the positions of Conductor, Inspector of Passenger Service, Trainmaster, Asst. Division Supt., Division Supt., and now General Supt. of the Omaha Road. Mr. Pechin is a splendid type of the self-made man—strong, quiet, yet genial—still in the prime of life, he will go far, and deservedly so. He has a peculiar faculty for handling men, and always manages to get the best out of them. He has made hosts of friends who will watch his future career with the liveliest interest.

### Not Anxious at All.

"One word of our language that is almost always misused," said the particular man, "is 'anxious.' You will hear people exclaim how anxious they are to see a certain play, or anxious to get a new hat, or anxious to take a trip to Europe, when they are not anxious at all, but eager or desirous. If anxious were used only in the right place we wouldn't hear it half so often."

### Weighty.

"He is what I call a massive thinker."

"Yes; he has to run his train of thought in sections."—Kansas City Journal.



### For Croup and Whooping Cough

there is no quicker, surer remedy known than Dr. D. Jayne's Expectorant. Four generations of children have been relieved and cured by this old and reliable medicine.

### DR. D. JAYNE'S EXPECTORANT

has been successfully employed for over 78 years in countless cases of Croup, Whooping Cough, Colds, Bronchitis, Inflammation of the Lungs and Chest, Pleurisy, and similar ailments.

For the sake of your children keep a bottle of Dr. D. Jayne's Expectorant in your home where you will have it at hand in an emergency. Sold by all druggists in three size bottles, \$1.00, 50c and 25c.

Dr. D. Jayne's Tonic Vermifuge is the ideal worm medicine, and an effective tonic for adults and children alike.

### LOOK! LOOK!

We will send you, postpaid, a 12 inch (full length) Butcher's Band Knife, with rubber handle, double edged, for 10 cents each. A new Folding Knife for 4 cents. A handsome Carving Knife and Fork with nickel-plated guard, in covered box, just the thing for your Christmas presents, for only 10 cents. Five pieces in one box for 75 cents. Stange table sets at our knife makers. Bookings and orders filled promptly. Address: Sweeney Knife Co., Belleville, New Jersey.

### PARKER'S HAIR BALM

Parker's Hair Balm. Promotes a healthy growth of the hair. It is the only hair dressing that will keep the hair from falling out. It is the only hair dressing that will keep the hair from falling out. It is the only hair dressing that will keep the hair from falling out.

### Information About the West

Having traveled by train through the West, I have a thorough knowledge of the West. For the West I will write you a personal letter, giving you all the information. A. A. SCHNEIDER, 926 West 10th Street, Los Angeles, California.

### We Have for Sale

Improved and unimproved land and valuable water rights. Write for list. Graham & Cook, Cairo, Texas.

### GET MONEY QUICK

By shipping you Poultry, Eggs and Butter to COYNE BROS., 160 So. Water St., CHICAGO. Write for prices and terms.

### GENUINE Havana Cigars

Direct from maker to smoker. Send one dollar for sample box of 25 "Regent" Cigars. Will send you a box of 25 "Regent" Cigars. Will send you a box of 25 "Regent" Cigars.

### PATENTS

That Excel. The Patent. Send for free booklet. Write for free booklet. Write for free booklet.

### DEFIANCE Cold Water Starch

For Christmas, a genuine solid glass mugget scarf pin, 10c. Money returned if not satisfactory. Write for free booklet. Write for free booklet.

### FOR SALE—Stock Ranches of all sizes, from 100 to 10,000 acres, also Grain, Hay and Fruit Farms.

Inquire of White & Luce, John Day, Oregon.

### \$3.50 per volume is net profits to our agents.

First-class agents in this section. Men or women. Vitalogy, Chicago, Illinois.

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If afflicted with Thompson's Eye Water

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