

Scientific Farming

WAR'S BIG NECESSITY

To Reach Greatest Efficiency Army Must Be Well Fed.

Every Farmer Can Raise More and Better Poultry and More Profitably by Disposing of Surplus Males—Keep Yearling Hens.

(By E. E. RICHARDS, President of American Poultry Association.)

We are going to win this war. It is going to cost our treasury billions of dollars besides the lives of hundreds of thousands of our bright young manhood, but we shall win. To win this war the quickest, and with the least loss of lives we must provide the food for an Napoleon said: "An army marches on its stomach." This means that an army must be well provisioned to reach its greatest efficiency. The greater part of the food supply must come from the United States not only for our 1,700,000 and more boys in the



Barred Plymouth Rock Hen.

army and navy, but we shall have to feed our people at home, and must also supply the allies who are fighting this world's greatest battles.

Dispose of Surplus Males.

Every farmer can raise more and better poultry and do it far more profitably by disposing of all surplus males, by keeping only the yearling hens, and the earliest and best-matured pullets, thus keeping no dead-ends or "stoppers" to consume what should go to profitable producers. It is a crime to dispose of a laying hen or a pullet that is just about to lay. Keep the hen house neat and clean. Repair the roof, the windows, and stop any direct drafts that are possible by knot holes or cracks. Too much glass and not enough open front is bad. Write your state experiment station for needed information. Every state in the Union except Florida and Wyoming, maintain poultry departments which are pleased to aid the home folks with their poultry problems.

Poultry Will Help.

Poultry is profitable. No source of meat supply is as rapid or as cheap. Every pound of poultry produced will help in sending a pound of meat across to the boys that are fighting our battles. Every farm should have a carefully culled flock of not less than two hundred fowls. The larger the farm, the larger the flock, and such a flock should be maintained largely from economical reasons. Poultry will pick up 60 per cent of its living from scattered and wasted grains. They act as scavengers in consuming a large part of



White Leghorn Hen.

what would otherwise be lost. Poultry will prove valuable in eating obnoxious bugs, grasshoppers, worms and insect pests, that would otherwise destroy food that is valuable. To the dweller in a village, town or city, a well-kept flock of a dozen or 25 good laying hens will prove profitable. They can be kept from the lawn, garden, kitchen and table offal, all of which makes the choicest kind of poultry feed with but a small addition of grain.

Increase Food Production.

During this next year every effort should be made to raise and consume every pound of poultry flesh possible. It is one of the easiest and quickest ways of helping to increase food production, and that is what every red-blooded American must do to help his

country during the period of the war. Every pound of meat produced will help put a bullet in the Kaiser. Do your bit.

Keep Nests Clean.

Keep the hens' nests clean and the bedding on the floor of the poultry house clean and the eggs will be clean when gathered, in most cases.

Hens in Laying Trim.

Keep the hens in laying trim. Their "shells" are valuable food ammunition.

Pedigree and Guarantee.

An animal is like a machine. To make a good machine requires that each part be of good material and just the right weight and strength. The good animal must have its parts developed in the right proportion to make the type desired. The adaptability of a machine and the proportioning of its parts can be largely determined by looking at it. However, the make of the machine is the guarantee as to its possessing or lacking quality. Likewise in the animal a good deal can be determined as to its type by looking at it. Its real quality, however, cannot be determined in this way. To get at this it becomes necessary to go further back. The quality was put into the animal by its parents, its grandparents, etc. This makes it important to know that all these parents had qualities that would contribute to the making of a good animal of the type wanted. A pedigree is a scheme for keeping track of the parents of an animal. It is a guarantee of what is back of the animal, of what has contributed to its make-up. It is this fact that makes the purebred animal valuable.—North Dakota Experiment Station.

DEHORN CALVES WHEN YOUNG

Treatment is Painless if Applied Before Animals Are Week Old—Directions to Follow.

(By CARL J. MENZIE, Ferndale, Wash.)

Young calves can be painlessly dehorned if the treatment is applied before they are one week old. Anyone can do it if they follow directions:

Procure from a druggist a stick of caustic soda or caustic potash—it usually comes in sticks five inches long and the size of a lead pencil. Now clip the hair off over the place where the horn can be felt. After this is finished, wash with soap and water



Young Holstein Calf.

and thoroughly dry with a towel. Take the stick of caustic and wrap some paper around the end that is to be held in the hand. Now moisten the other end and rub on each clipped spot alternately, two or three times, allowing time for it to dry between each application. Don't get the stick too wet and rub only where the horn is to appear, because if it gets on the surrounding skin it will eat the flesh away and cause pain. After the treatment protect the calves from rain, as water on the head will cause the caustic to run on the surrounding skin.

ESSENTIAL TO LIFE OF SOIL

More Vegetation Must Be Turned Under to Replace That Burned Out by Heat of Sun.

The time has come when we must turn under more vegetation to replace that burned out by the heat of the sun and intense cultural methods. Vegetable matter is essential to the life and yield of the soil. Regardless of the amount of plantfood in the soil, before a good yield can be expected the land must have enough organic matter to make it light, mellow and friable. The first essential is vegetation, then moisture, and next cultivation. Do not be too persistent in leaving the fields clean. A few weeds may not be altogether objectionable.

Letterheads that will please you, at the Courier.

GETTING A BATH IN BOGOTA

Attempt Was Fruught With Much Difficulty and Considerable Profanity, According to Writer.

Ever since our arrival Hays and I had been threatening to patronize one of the two public bathhouses with a first-class bogotano reputation rumor had it existed in the capital, says Franck's Vagabonding Down the Andes. But in a land where the temperature rarely reaches 50 and the floors are tiled, it takes courage, and we had been satisfying ourselves and our duty to humanity by bravely splashing a basin of icy water over many forms each morning on rising. By dint of strong resolutions often repeated to be up at six and visit one of the cases de banos we did finally manage one morning to find ourselves wandering the streets by eight, with towel and soap under our arms, and stared at by all we met. We discovered La Violeta at last, next door to a blacksmith shop. The keeper we woke up told us we might have a cold bath, but that the sign on the front wall: "Hot baths at all hours," was to be taken with a bogotano meaning.

A few mornings later we did actually find the other establishment open. We entered a large patio, the most striking of several buildings, within which was a round, or, more exactly, an eight-sided house, and in time succeeded in arousing the place to the extent of bringing down upon us a youth hugely excited at the appearance of a crowd of two whole bathers all at one time.

The youth assured us there was plenty of hot water. I won the toss and was soon stripped. But the shower was colder than the ice fields bounding the pole. When I had caught my breath I bawled my repertory of profane Spanish at the youth, who could be seen through a hole above pottering with some sort of an upright boiler and firebox, and now and then peering down upon us. Suddenly the water grew warm, hot, boiling, then, just when I had soaped myself from crown to toe in the steam, it turned as suddenly cold again, and an instant later stopped entirely. My eyes tight closed I shouted at the youth above. "¿Es que el agua caliente se acabo," he dropped. "It is that the hotel water has finished itself."

There being no deadly weapon at hand I turned on a tap of ice-cold water and raced to the dressing room still half soaped. Hays, scantily clad, was gazing fiercely at the youth through a hole in the door.

"Then there isn't any more hot water?" he demanded.

"Not, now, senior, but there will be soon."

"Good. How soon?"

"Early tomorrow morning, senior." "Why, your cross-eyed son of a pig-don," exploded the ordinarily even-tempered ex-corporal, "I came here and stripped to an undershirt that I might dance in my bare feet on this tile floor in honor of Jose Maria de la Santa Trinidad Simon Bolivar! Get up on that roof and fire up or..."

The youth was already feverishly stoking armfuls of wood under the upright boiler, and by the time I left for home Hays was shadow boxing to keep warm with a fair chance of getting a bath before the day was done.

you can flavor most daintily with **LESLIE SALT** it is full flavored free flowing strong without bitterness

At the Front **MECHANICS** 360 ARTICLES 360 ILLUSTRATIONS **BETTER THAN EVER** 15c a copy At Your Newsdealer Yearly Subscription \$1.50 Send for our new free catalog of mechanical books Popular Mechanics Magazine 6 North Michigan Avenue, Chicago

Famous Old Time Chateau. The old chateau of Cony, France, reduced to a pile of stones by the German destruction, dated from the thirteenth century. In the middle ages it was known as a masterpiece of military architecture. Viollet-le-Duc in 1856 was charged with the restoration of certain walls that threatened to crumble. The famous dungeon was unique in the whole world. The chateau, or, rather, one of its towers, formerly served as a prison for the malefactors who infested the neighboring forests. During the reign of Louis XIV. Cardinal Mazarin tried to demolish one of the walls of the chateau, forty feet in thickness, and failed.—New York Times.

ONE ADVERTISEMENT WILL NOT MAKE YOU A FORTUNE, BUT IT WILL SERVE AS A STONE IN THE FOUNDATION OF BUSINESS SUCCESS :: ::

Home Card

UNITED STATES FOOD ADMINISTRATION

WHAT YOU CAN DO TO HELP WIN THIS WAR

See other side showing why you should do it.

Our problem is to feed our Allies this winter by sending them as much food as we can of the most concentrated nutritive value in the least shipping space. These foods are wheat, beef, pork, dairy products, and sugar.

Our solution is to eat less of these and more of other foods of which we have an abundance, and to waste less of all foods.

Bread and cereals.—Have at least one wheatless meal a day. Use corn, oat, rye, barley, or mixed cereal rolls, muffins, and breads in place of white bread certainly for one meal and, if possible, for two. Eat less cake and pastry.

As to the white bread, if you buy from a baker, order it a day in advance; then he will not bake beyond his needs. Cut the loaf on the table and only as required. Use stale bread for toast and cooking.

Meat.—Use more poultry, rabbits, and especially fish and sea food in place of beef, mutton, and pork. Do not use either beef, mutton, or pork more than once daily, and then serve smaller portions. Use all left-over meat cold or in made dishes. Use soup in freely. Use beans, they have nearly the same food value as meat.

Milk.—Use all of the milk, waste no part of it. The children must have whole milk; therefore, use less cream. There is a great waste of food by not using all skim and sour milk. Sour milk can be used in cooking and to make cottage cheese. Use buttermilk and cheese freely.

Fats (butter, lard, etc.).—Dairy butter has food values vital to children. Therefore, use it on the table as usual, especially for children. Use as little as possible in cooking. Reduce the use of fried foods to reduce the consumption of lard and other fats. Use vegetable oils, as olive and cottonseed oil. Save daily one-third of an ounce of animal fat. Waste no soap; it contains fat and the glycerine necessary for explosives. You can make scrubbing soap at home, and, in some instances, you can sell your saved fats to the soap maker, who will thus secure our needed glycerine.

Sugar.—Use less candy and sweet drinks. Use less sugar in tea and coffee. Use honey, maple syrup, and dark syrups for hot cakes and waffles without butter or sugar. Do not frost or ice cakes. Do not stint the use of sugar in putting up fruits and jams. They may be used in place of butter.

Vegetables and fruits.—We have a superabundance of vegetables. Double the use of vegetables. They take the place of part of the wheat and meat, and, at the same time, are healthy. Use potatoes abundantly. Store potatoes and roots properly and they will keep. Use fruits generously.

Fuel.—Coal comes from a distance, and our railway facilities are needed for war purposes. Burn fewer fires. If you can get wood, use it.

GENERAL SUGGESTION.

Buy less; cook no more than necessary; serve smaller portions. Use local and seasonal supplies. Patronize your local producers and lessen the need of transportation. Preach and practice the "gospel of the clean plate." Do not eat the American goods in strange countries, but simply, but wisely, and without waste.

Do not limit the plain food of growing children. Do not eat between meals. Watch out for the waste in the community. You can prevent disease other methods of saving to the end we wish to accomplish. Under various circumstances and with varying quantities you can vary the methods of economizing.

Classified Advertising

FOR TRADE

FOR TRADE—150 acres of logged off land 30 miles from Seattle, Wash., one-half mile from railroad station, a good small town, fine auto road, most of this place is easily cleared, well watered, would make fine stock ranch. Price \$30 per acre. Will trade for small ranch or residence property. Will be in Grants Pass about 15 days. Address E. McColey, P. O. Box 361 or call at Palace Hotel. tf

FOR SALE

O. & C. GRANT LANDS—Blue print plats showing lands in Josephine county, \$1.50. Address A. E. Voorhies, Grants Pass. tf

DEALERS in horses, mules, cattle, wagons, hacks, buggies, harness and saddles. We have a variety of all kinds at all times. If you have anything to sell or exchange, or if you want to buy, come and see us. We will treat you right. All our livestock is put out under guarantee. Red Front Feed and Sale Stable, Corner Sixth and K streets. Timmons, Prop. Phone 533-J. 18tf

FOR SALE—Good modern house, close in, north side. Inquire No. 2333, care Courier. 23tf

TRENTON ROOMS—Now under management of Mrs. L. C. Armstrong; 28 clean rooms at 35c and 50c; special rates by week or month; also light housekeeping rooms. Would like your patronage. 46tf

FURNISHED ROOMS—Large, comfortable and conveniently located. 441 C street. 86tf

HOTEL OXFORD ROOMS for rent—Large, well furnished, steam heat, hot water, bath, and all hotel privileges. Very moderate weekly and monthly rates. 37tf

FOR RENT—5-room modern cottage, bath, gas and electric lights, low rent. Inquire N. E. Townsend, 621 A street. 55

TO EXCHANGE

TO TRADE—800 acres of unimproved land in Harney county to trade for small improved place around here. Address H. H. Thompson, Applegate, Ore. 54

EXCHANGE OR SALE—120 acres Illinois valley on Crescent City highway, 15 acres irrigated, good big 7-room house, cost \$1,800, good barn and fence, one half million feet timber, good out range. Price, \$2,800. State loan, \$500. L. A. Launer, real estate. 51

WANTED

WANTED—A cook at the Grants Pass hotel. tf

WANTED—A capable high school boy wants to work for board and room or cash equivalent. Address 712 K street or No. 19, care of Courier. 51

WANTED TO RENT—A place, for six months or more. Exceptionally good care. State make, condition, terms. Apply 307 West C street. 51

MISCELLANEOUS

BENNETTS' CHEMICAL laboratory, 1142 Market street, Tacoma, Wa. Let us take care of your ore shipments and do your control work, rates reasonable. tf

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COMMERCIAL TRANSFER CO. All kinds of drayage and transfer work carefully and promptly done. Phone 181-J. Stand at freight depot. A. Shade, Prop.

F. G. ISHAM, drayage and transfer. Safes, pianos and furniture moved, packed, shipped and stored. Phone Clark and Holman, No. 59. Residence phone 124-R.

THE WORLD MOVES; so do we.

Bunch Bros. Transfer Co. Phone 397-R.

MUSICAL INSTRUCTION

J. S. MACMURRAY, teacher of voice culture and singing. Lessons given at home of pupil if requested. Address 716 Lee St. 851tf

TAXI SERVICE

ARE YOU GOING or not going, that is the question. Call Jitney Luke at the Spa or phone 263-R. Always at your service for city or country calls. 901f

PHOTO STUDIO

THE PICTURE MILL open daily 10 a. m. to 5 p. m. For Sunday sittings call Mill 283-R or residence 140-J. 781f

The California and Oregon Coast Railroad Company

TIME CARD

Effective December 1, 1917.

Tuesday, Thursday, Saturday Train 1 lv. Grants Pass. 1:00 p. m. Train 2 lv. Waters Creek 3:00 p. m.

All trains leave Grants Pass from the corner of G and Eighth streets, opposite the Southern Pacific depot. For all information regarding freight and passenger service call at the office of the company, Lundburg building, or phone 181 for same.

Couldn't Be Worse. Mrs. A.—I don't think their manners are particularly good. I wonder where they have been living? Mrs. B.—I don't know, but their manners couldn't be any worse if they had been living at home all their lives.—People's Home Journal.

A classified ad will give results.