

FARM AND ORCHARD

Notes and Instructions from Agricultural Colleges and Experiment Stations of Oregon and Washington, Specially Suitable to Pacific Coast Conditions

TO ADD TO POULTRY PROFITS.

Interesting Experiment in Fattening Fowl on Stubble Field.

Oregon Agricultural College, Corvallis—Believing that Oregon farmers can add materially to their poultry profits by keeping the birds pastured on the waste grain of the stubble fields, Prof. James Dryden, of the Oregon Agricultural College, has inaugurated an interesting experiment near Moro.

In a colony of ten white canvas tents he has housed 500 white Plymouth Rocks, and will keep them there six weeks, keeping accurate record of the weight and gains made. Movable fences are used, and the tents are on frame at the bottom, on runners, so that they can be moved readily as fast as the chickens clean up the waste grain on one part of the field and need new foraging ground.

"The point is to determine how much poultry flesh we can make from the waste grain on a given area with a given number of birds in any certain space of time, at the least expense," said Prof. Dryden, discussing the experiment. "In going through the Portland markets I was struck with the poor quality of the chickens sent in there by the farmers of the state. They were so largely bone, with very little meat on them. I believe that they could be kept a little longer, to good advantage financially, if the farmers would put them out on the stubble fields, where there are always quantities of waste grain to be picked up. I am sure there could be added a pound or two apiece to the weight of each bird, in good, solid flesh, bringing a much better price, and that with almost no financial outlay. We are feeding nothing but a little animal food—beef scrap from the slaughter houses—and this would not be necessary if there were grasshoppers and other bugs in the fields."

PINK EGGS AND CHICKENS.

Agricultural College Feeds Dye to Poultry at State Fair.

Salem, Or.—An exhibit at the Fair that is attracting great attention is that of "sky-blue-pink" chickens, and eggs with red yolks and pink whites—both perfectly sound and wholesome—shown by the poultry department of the Oregon Agricultural College. Dyes of coal-tar product, are fed the birds one day, and the next day the eggs and birds show a gay difference, illustrating vividly the immediate effect the quality of food has on the eggs, the flesh, and even the feathers and toe-nails of the fowls.

EXPERIMENT STATION NOTES

By E. W. Thatcher, Director Washington Experiment Station, Pullman.

Pork may be pickled by using for each eighty pounds of meat, one pound of salt, four pounds of sugar, one quart of molasses, and three ounces of saltpetre. The meat is well rubbed with salt and left in a pickle barrel for fifteen days, draining off the liquid from time to time.

A second method is to use one bushel of fine salt, two pounds of brown sugar, and one pound of saltpetre, which would be enough for eight hundred pounds of meat. The sugar improves the flavor of the meat, and the saltpetre makes the pork firmer. After a few days a little more of the salt mixture may be applied, rubbing it in if absorption is going slowly. All ends of bone must be thoroughly salted in, as decomposition is most likely to occur in such places. This method may be used where hams, shoulders, and bacon sides are packed together in the same barrel, the hams being packed at the top of the barrel to prevent them from becoming too salty. Re-salting should take place within ten days or two weeks according to the weather. After four to six weeks the meat may be unpacked, washed, and smoked, or the salt may be left on the meat during the process of smoking. Before hanging in the smoke house the meat may be sprinkled with black pepper or a mixture of black and red pepper. A molasses barrel is better than a whiskey barrel, but if a whiskey barrel is used, the interior should be charred first. This will remove the flavor of the whiskey.

Alfalfa makes an excellent pasture for hogs, and we have never found any injurious effects in pasturing our hogs on it. Alfalfa will stand pasturing after it has become well established, but should not be pastured until it is at least a year old. Some alfalfa should be fed to hogs that are on alfalfa, barley or wheat usually, in the Western country.

When it comes to feeding cows, on account of the high protein content of alfalfa hay, it would not be well to use oil meal and bran, unless these

feeding stuffs can be secured cheaply. We use rolled barley alone and would feed about seven or eight pounds per day per head. It must be remembered, however, that we cannot give specific rules for the feeding of dairy cows, for a ration that is satisfactory for one might not be satisfactory for another. The best thing to do would be to make a trial of the ration suggested, and watch the effects on each cow, varying it where necessary.

Young trees should not be permitted to go into winter in a soft and succulent condition. Cracking of the bark at the ground, in the spring, frequently happens where trees are not properly hardened in the fall, or where the ground is wet on the surface during the first freeze of the real cold weather. About the only thing that can be done is to bank them up with earth, providing the bark has not loosened entirely around the stem of the tree, and permit them to heal in. It is only occasionally that a tree dies from these results, and usually it does not happen after the second or third winter of the orchard. Very frequently fruit trees are frozen so solidly during the winter that they split their bark, serious injury resulting. In such cases, trim off the ragged edges of the bark, and paint the wound over, permitting it to heal over naturally during the summer. If this splitting continues it will kill the tree.

The record cow for butter fat is the Holstein, and although the Holsteins as a rule give a large flow of milk, we find that the percentage of fat is generally low. This does not mean, however, that the Holstein cow is the most economical producer of milk and fat. While in some cases we know that they will produce more economically than will the Jersey, we also find many Jerseys that will produce higher butter fat much more economically than the Holsteins. The type of cow that one should keep on the farm will depend on various conditions, and while the Holstein cow may be the best in one case, the Jersey will prove better in another.

In mild climates, where the winters are not severe, the Jersey will do very well. The Holstein is of course a much larger cow and is able to withstand severe winters.

By orchardists it is generally considered to be a poor plan to run hogs in an orchard, as they are likely to injure the trees. However, if it is decided to handle them in this way, they should also be fed ground barley, or wheat, or middlings, depending on the market price. For producing gains, barley is almost equal to wheat, pound for pound, and produces a most excellent quality of pork. For young pigs, middlings will give somewhat better results than the others. Where grain is being used without pasture, it will require about five hundred pounds to produce one hundred pounds of gain. Knowing the values, one can estimate whether or not it will be safe to raise hogs under given market conditions. Pork can be produced much more cheaply where pasture can be used in conjunction with the grain.

The best method of preserving butter, and the method that is used almost exclusively is by chilling it to a freezing point or below and keeping it until ready to use in that condition. This is the way they store all storage butter, but on the farm very good results have been obtained by keeping it in strong salt brine solution. The butter is packed in stone jars and the brine is poured over the top and left in as cool a place as possible until you are ready to use it. You will find that great care must be taken in the selection of the cream and the care of the butter in this kind of storage, but if proper methods are used in handling, the butter can be kept from four to six months in good condition.

The amount of salt necessary in butter depends largely upon the market requirements and varies from three-fourths of an ounce to an ounce and a half per pound of butter, one ounce per pound being the average. The temperature at which cream should be churned will vary according to the conditions from as low as fifty degrees in the summer, time to 65 degrees in the winter. We cannot set a temperature at which you should churn. The temperature will have to be determined by experimenting and should be such as will bring the butter in small granules after about thirty to forty minutes after starting to churn.

We generally find that cows with have had their calves running with them as long as three weeks are very hard to manage so as to get a maximum amount of milk. If it is possible it would be better to wean the calf while it is only a few days old, and then by careful manipulation of the udder, there should be no trouble in having the cow let down her milk.

Aid to Husbands' Memories.
The United States government is undertaking a cure for men who forget to mail their wives' letters by installing mail boxes in street cars in Washington. If it works well in the capital, this aid to bad memories will be extended to other cities. The idea is that with a mail box staring him in the face while on his way to his office, there is no excuse for his carrying a letter in his pocket more than three or four days.—Success Magazine.

Clerk Didn't Remember Him.
"I would like to have the same room I had the last time I was here; I believe it was No. 14," said Andrew Anderson, eighty-one years old, of South Bend, Ind., to Clerk Ernest Reul at the Hotel Sherman.
"Geel!" replied the clerk; "that must have been before my time. When were you here last, Mr. Anderson?"
"In the spring of 1848 I rode to Chicago from our Indiana town home-back, and this is my first visit here since that time," he answered.—Chicago Inter Ocean.

His Philosophy.
Maué—Did you observe that Gus Archer gave me his first dance last evening?
Sybil—Yes; he told me later on he believed always in getting disagreeable things done as soon as possible.

Success Magazine.

Success Magazine.

Success Magazine.

Success Magazine.

Success Magazine.

WHAT ENGLAND FEARS

STARVATION RATHER THAN INVASION IS ITS DANGER.

In Case of War the Islanders' Food Supply Might Be Exhausted in Few Months.

With ships bringing foreign food supplies into England at the rate of £434 worth every minute of every day in the year, Great Britain cannot accumulate a stock of provisions large enough for a year's supply, some experts say not enough for half a year.

"Others doubt if we could hold out for three months without foreign supplies," says the Queen, "and all agree that three weeks war, or even threat of war, would enormously increase the price of foodstuffs. In the ordinary way the proportion of food and drink brought over the sea is over 42 per cent of our total imports, being in round figures £250,000,000 out of a total of £550,000,000. Of this sum £70,000,000 goes for grain and flour alone, and nearly fifty millions for food and drink not otherwise specified, and excluding fifty millions for food, drink and tobacco subject to duty."

"What we as a nation have to fear is not invasion but starvation. To the great mass of the people of this country the question is not 'Shall we win or lose in war? but, shall we have enough food to live on when the next big war comes?' It is to meet such an emergency that the use in this country of silos for grain, or national granaries, has been advocated.

"The cost of creating and maintaining silos might be considerable, though we suppose the cost of a single dreadnought would easily cover it; but as an insurance against panic it would well be worth the expense, while as a safeguard in time of war and against imminent famine it would be invaluable, and might easily turn defeat into victory and disaster to safety.

"Gibraltar is provisioned for two years and Malta has silos which keep corn good for as long as four years, thus supporting the truth of the Biblical statement that Joseph in the dry climate of Egypt fed the people with corn stored for seven years. The idea is the gradual collection of an amount of wheat equal to one year's import and its automatic renewal by exchanging it for the new grain as it arrives at the different ports."

The Because Man.
Suppose everyone did just what he intended to do and no one failed "because." Then there would be no failures to point out. There would be no subjects for sermons for those who had no "because" attached to their names. The man without the title could not point to the "because" man and say: "He did not succeed 'because.'" So the "because" man may take heart and feel that because he did not he is surely at last the subject of this sketch. True he "did not scale the rugged wall, nor climb to heights unseen" by the masses who are also other "because" men.

Most of us are "because" men, we yearn for the unattainable; we feel that life is a failure. But maybe the realities are dreams of callow youth did not come nearer the dreams than we think. Maybe the awakening will show that the "because" men climbed higher than they thought and maybe the judge will show those who stood on the heights that the "clouds are well worth striving for but in the depths there is some sunlight." But the man should never have "because" as an excuse.

Photograph Burned Manuscript.
The processes of color photography have recently been applied to obtain a legible photograph of the writing on burned manuscripts which were unreadable by any other known means. As long as the sheet has not been entirely disintegrated positive results can be obtained every time.

The charred manuscript is carefully arranged, in as near its original shape as possible, on a sheet of glass, and covered with a drying varnish, after which it is backed by another sheet of glass.

By using carefully-selected color screens and orthochromatic plates a perfectly legible photograph of the writing may be taken, although there may be no marks on the charred remains that are visible to the eye.

This is the only known method that will give results when the writing has been made with vegetable inks. Ordinary photography can be used successfully when the ink contains aniline or iron in its composition.—Popular Mechanics.

Guard Your Ideals.
How true it is that without a vision the people perish, says Orion Swett Marden, in Success Magazine. Where the pursuits are sordid, where the highest aim is the all-absorbing ambition to make money, everything that is finest, cleanest and most beautiful in life evaporates: the nature coarsens. This is the threatening picture of American character today.

The vast resources and great commercial prizes of this country are so tempting, so fascinating, that by the time they are ready for active life our youth are so saturated with commercialism, so ambitious to coin every bit of their ability, their education, their influence, their friendships, almost everything, into dollars, that all else is neglected. They lose their ideals, which are the true test of character.

Dr. Pierce's Pellets, small, sugar-coated, easy to take as candy, regulate and invigorate stomach, liver and bowels and cure constipation.

Music Ever Helpful.
Music is the nearest at hand, the most orderly, the most delicate and the most perfect of all bodily pleasures; it is also the only one which is equally helpful to all the ages of man; helpful to the nurse's song to her infant—to the music, unheard of others, which often, if not most frequently, haunts the deathbed of pure and innocent spirits.—Ruskin.

AFTER 7 YEARS SUFFERING

I Was Cured by Lydia E. Pinkham's Vegetable Compound

Waurika, Okla.—"I had female troubles for seven years, was all run down, and so nervous I could not do anything. The doctors treated me for different things but did me no good. I got so bad that I could not sleep day or night. While in this condition I read of Lydia E. Pinkham's Vegetable Compound, and began its use and wrote to Mrs. Pinkham for advice. In a short time I had gained my average weight and am now strong and well."

—Mrs. SALLIE STEVENS, R. F. D., No. 2, Box 31, Waurika, Okla.

Another Grateful Woman.
Huntington, Mass.—"I was in a nervous, run down condition and for three years could find no help. 'I owe my present good health to Lydia E. Pinkham's Vegetable Compound and Blood Purifier which I believe saved my life. 'My doctor knows what helped me and does not say one word against it.'—Mrs. MARI JANETTE BATES, Box 134, Huntington, Mass.

Because your case is a difficult one, doctors having done you no good, do not continue to suffer without giving Lydia E. Pinkham's Vegetable Compound a trial. It surely has cured many cases of female ills, such as inflammation, ulceration, displacements, fibroid tumors, irregularities, periodic pains, backache, that bearing-down feeling, and nervous prostration.

A Good Position

Can be had by ambitious young men and ladies in the field of "Wireless" or railway telegraphy. Since the 8-hour law became effective, and since the Wireless companies are establishing stations throughout the country, there is a great shortage of telegraphers. Positions pay beginners from \$70 to \$90 per month, with good chance of advancement. The National Telegraph Institute, Commonwealth Building, Portland, Oregon, operates under supervision of R. R. and Wireless officials, and places all graduates into positions. It will pay you to write to me for full details.

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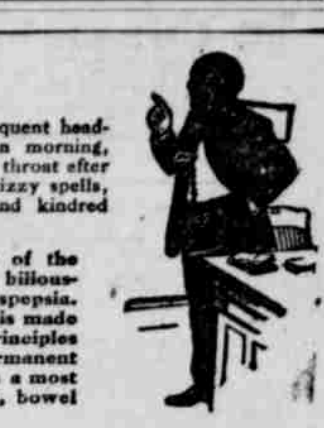
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If you have any considerable number of the above symptoms you are suffering from biliousness, torpid liver with indigestion, or dyspepsia. Dr. Pierce's Golden Medical Discovery is made up of the most valuable medicinal principles known to medical science for the permanent cure of such abnormal conditions. It is a most efficient liver invigorator, stomach tonic, bowel regulator and nerve strengthener.

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Bowled Over.
There is in a Western town a judge who occasionally hits the flowing bowl until it puts him down and out. One morning, following an unusually swift encounter with the alcoholic foe, he appeared in his office looking sad and shaken up.

"How are you this morning, Sam?" inquired a friend.
"Worse than I've ever been," replied the judge, with a groan. "I'm in bad at home. When I left the house a little while ago the children were calling me Sam and my wife was addressing me as Mister."

SMILE ON WASH DAY.

The laundress' delight is RED CROSS BALL BLUE. A neat, handy "tip" to wash on "Zuripou" soap and a blue that is all blue. It is so far superior to any liquid bluing that there is no comparison. Always produces snow white clothes. Large package 10 cents. ASK YOUR GROCER.

His Lullaby.

"Good morning, Mr. Schneiderpopski!" exclaimed the good lady of the house as the new second-floor back took his place at the breakfast table.
"Good mor-r-ning!" replied the musician, bowing gallantly.
"I am so afraid you didn't pass a comfortable night" pursued the hostess, sympathetically. "Can we do anything for you?"
"Not koomfortable? Me!" exclaimed the long-haired one. "Ach, ja, I sleep like ze hummingbird! I was oil rite. Joost before I go to bed I br-ractise mit mein feedle."
"Oh was that it?" interposed the hostess, with a look of glad relief. "I'm so pleased. We thought you were shifting the bed."—Answers.

Children suffer every day in the year with Sprains, Bruises, Burns, Cuts and Bumps. Hamlin's Wizard Oil has been curing these aches and pains for nearly sixty years.

History Didn't Repeat.
Senator Swanson, of Virginia, tells a good story on himself about the first political speech he ever made. He says: "I jumped up and began: 'Gentlemen, Herodotus tells us—' 'Which ticket's he on?' yelled the man with a red shirt. 'Herodotus tells us,' I resumed with a gulp, 'of a whole army that was put to flight by the braying of an ass.' The crowd applauded and I felt fine. Then the man's voice rose above the din. 'Young feller,' he called, 'you needn't be afraid for this crowd. It's been tested.'—Buffalo Commercial.

Youth Never to Be Recalled.
A man has a shrewd suspicion that age has overtaken him when he keeps asuring you that he feels as young as ever—and he doesn't know but—yonger. Poor fellow, he whistles to keep his courage up; but, alas! he cannot recall youth as he calls his pointer—with a whistle.

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

Guilty of Something.
Another lawyer's story arrives. We are told that a man was charged with picking a pocket the other day and that when arraigned he pleaded "guilty." The case went to the jury, however, and the verdict was "not guilty." And the court spoke as follows:
"You don't leave this court without a stain on your character. By your own confession you are a thief. By the verdict of the jury you are a liar."—Cleveland Plaindealer.

FOR EYE ACHE **Putnam's Eye-Salve**

Mrs. Prime Puzzled.
Cy Prime says he often tells his wife that whatever he amounts to he owes to her—and the poor woman can't make up his mind whether he is handing her an insult or compliment.

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