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LEGUMES PLOWED UNDER SUPPLY MUCH NITROGEN

A heavy crop of vetch or crimson clover turned under as a green manure affords more nitrogenous matter than the same amount of stable manure," said Professor H. D. Scudder, agronomist of the Oregon Agricultural College. "The green crop is likewise more free from disease germs and weeds than the stable product. It is cheaper, too, if the cost of labor is considered. And its effects in producing acids in the soil are but little greater than those of stable manure.

"The acid effects, whether caused by the stable manure or the green manure, may call for the use of lime. Certain it is that if lime is to be used it may well be used in connection with the green manure. The present prices of quick lime make its use almost prohibitive, but it ought to be possible to secure ground limestone at reasonable prices in the near future. There are mountains of limestone in Southern Oregon, and it is hoped that companies will be organized to grind the rock and put the product on the market in time for next season's crops. Ordinarily not more than \$3 per ton can be paid for ground limestone, if it is a profitable investment. But the acid-forming action of green manures is not serious enough to deter us from using these great soil builders, while awaiting a lime supply.

"The crop to be used as green manure should have grown to a height of 20 inches or more, and should yield not less than ten tons to the acre. It must be turned under early in April and thoroughly chopped up and incorporated with the soil by disking, both before and after plowing, if the best results are to be obtained. Otherwise it decays slowly, releases its plant food too late, and dries out the soil. It should be followed by cultivated crops, such as potatoes, corn, roots, etc., as they secure the highest values from either green or stable manure, being what may be called gross feeders.

"The actual fertilizing value of ten tons of crimson clover or vetch, green weight, is shown by analysis to be about as follows: Nitrogen 160 pounds, phosphorus 20 pounds, and potassium 120 pounds. The value of the nitrogen is \$24, and the value of all the fertilizers contained in the crop is \$32, at fertilizer prices in eastern markets.

"There is enough nitrogen in the ten tons of clover, or vetch,

green weight, to produce 100 bushels of wheat, 1800 bushels of apples, 9000 pounds of beef, 10,000 pounds of pork, or 130,000 pounds of butter. The fertilizing effects extend through a long period of years. Aside from the plant food value, the green manure has highly beneficial physical effects on the soil.

AT ST. PETERS CATHOLIC CHURCH

A mission will be given at St. Peters Catholic church beginning Sunday, December 21st, and terminating, December 25th. It is to be expected that all the members of the parish will attend the mission and make it the success we anticipate. The "Question Box," purporting to answer all questions pertaining to Catholic doctrine and discipline will be a feature of our mission. This enables our non-catholic friends who desire information concerning Catholic faith and practice to receive it officially from the church.

All are welcome to attend the services and nothing offensive to any creed will characterize our services. The members of the congregation are urged to invite their non-catholic friends.

PROTECTION FOR DEER AND ANTELOPE

For the past two months a party of deputy game wardens has been busy locating the boundaries of the new game refuge, 36 miles square, lying in Lake and Crook counties, in the central part of the state. The primary object in establishing this refuge is the protection of the mule deer and antelope which are still found in considerable numbers in that vicinity. The refuge is also a sort of natural park, containing many hot springs, lava beds, medicinal lakes and other objects of interest to the tourist and naturalist.

MARRIAGE LICENSES

Catherine Homberger, age 19 yrs. to Joseph W. Herring, age 21 yrs.
 Nina B. Thompson, age legal to D. R. McCann, legal.
 Silba Boettscher, age 25 yrs. to John H. Seis, age 35 yrs.
 Lillie May Carrett, age 20 yrs. to Elijah H. Nelson, age 20 yrs.
 Genevieve M. Rowles, age 22 yrs. to Michael Bernard Ryan, age 26 yrs.
 Marguerite Hash, age 21 yrs. to Clyde Henry Cook, age 23 yrs.

POULTRY ADD GREAT WEALTH TO STATE

Statistics gathered at the poultry show held in Portland last week show that poultry and poultry products annually add more wealth to the state than does fruit, three times as much as wool, one and a half times as much as hops, nearly half as much as wheat and represents about six per cent of the total agricultural wealth of the state. It has heretofore been claimed that Oregon is not a poultry state, but with our agricultural college devoting time and money to the improvement of existing breeds, a great deal of interest in the industry is being aroused.

WORSE THAN SALOONS

There are many people who believe that a saloon is the worst and most immoral place on earth; that all the different kinds of crime in the calendar are born and encouraged in these places. Not being acquainted with saloon life, the writer is not able to judge as to the truth or falsity of the idea. But if there is a saloon or any other place in Salem that would tolerate such a vile, suggestive, disgusting performance as was on the boards at a local picture house the fore part of the week, under what is termed "vaudeville," then it is time for the moral squad to get busy. And to think the house was crowded to the doors, and that some appeared to like the show! Surely, only a case of smallpox will purify the atmosphere where this "show" was pulled off.—Oregon Messenger.

Don'ts for First Aid.

Don't disturb blood cots.
 Don't be rough with the patient.
 Don't probe for a bullet or any other body imbedded in the flesh.
 Don't wash wounds unless you sterilize the water.
 Don't pull or tear off clothing—cut it away.
 Don't attempt to remove pitch, varnish or wax from a burned surface.
 Don't bring ammonia too close to the nostrils.
 Don't touch the eye with dirty fingers or an unclean cloth.
 Don't put bandages on too tight.
 Don't let the patient know his condition is serious.—Coal Age.

No Wonder.

She was a very stout, jolly-looking woman, and she was standing at the corset counter, holding in her hand an article she was returning. Evidently her attention had been suddenly drawn to the legend printed on the label, for she was overheard to murmur, "Made expressly for John Wanamaker." Well, there is no wonder they didn't fit!"

Don't Try.

Simmons had returned from his vacation. "I certainly enjoyed the husking bees," he said to a young woman. "Were you ever in the country during the season of husking bees?" "Husking bees!" exclaimed the girl. "Why, of course not! How do you husk a bee, anyway, Mr. Simmons?"—The Argonaut.

GREAT LIVESTOCK SHOW

Stock that has never known what it is to have their colors lowered in defeat on this continent or in the United Kingdom, animals that have swept everything in the way of awards at the International Livestock Show at Chicago, the National Dairy Show at Chicago, at state and district fairs without number were represented in that magnificent symposium of livestock aristocracy.

Portland was the mecca for all livestock men last week. The eyes of all stockmen of the west were focused on Portland. Nearly 1000 entries—not single animals, but individual herds of varying sizes and on up to carload entries, were listed with the exposition that made the value run well up into millions.

An aggregate of \$15,000 in premiums were awarded. No exposition of its kind has ever attempted to do so much for its community, for the country tributary to it, or for the industry it undertakes to foster. Thousands visited the yards to see the world's finest on exhibition and closed last Saturday where special entertainment had been provided for the school children and teachers who witnessed the awarding of the prize cups.

The Power of Suggestion.

"Biddy," said Pat, timidly, "did ye ever think o' marryin'?" "Shure now," said Biddy, "shure now, the subject has never entered me mind at all, at all." "It's sorry o' am," said Pat, said Biddy, softly. "Ye've set me thinkin'."

Feminine Curiosity.

We're looking back to see if they
 Are looking back to see if we
 Are looking back to see if they
 Are looking back at us—Judge.

REAL ESTATE TRANSFERS

Anna Bell to W E Johnson tracts 23, 24 and 67 of Chehalem Mountain Orchards \$1.
 Sultana Begun et vir to Roy L and Edna McDougall tract of Ramsey Terrace Newberg \$115.
 Harriet G Campbell et vir to T C Rice 20 ac in Joseph Hess dlc tp 3 sr 3 w w m \$10.
 Malcolm H Clark & wf to Joseph W Herring tracts 18, 19 and 20 of Chehalem Orchard Homes \$10.
 Wm H Egan & wf to Alma Stabell and Frank Johnson ne 1/4 of sw 1/4 of sec 14 tp 2 sr 4 w w m \$1175.
 Fidelity Guaranty & Investment Company to William Scott tracts 31 and 32 St Joe Orchard Homes No 4 \$4500.
 B W Henry & wf to C F Webb und 1/2 int in lots 22 and 23 of Chehalem Orchard Homes \$1.
 J V Hubbard & wf to Wm and Myrtle Stafford ne 1/4 of sw 1/4 and nw 1/4 of se 1/4 and w 2 rods of sw 1/4 of se 1/4 sec 1 tp 2 sr 5 w w m \$4100.
 Louise B Kliks et vir to Hattie J Shryder sw 1/4 of se 1/4 sec 19 tp 4 sr 5 w w m \$300.
 L E Lange & wf to Samuel Jackson 3.07 ac in Samuel Cozine dlc tp 4 sr 4 w \$1100.
 C W Lowe & wf to Aden Keen lots 13, 14, 15, 16 blk 43 of Edward's add Newberg \$10.
 Even J Owens & wf to Myrtle Owens 101 ac in Thos Owens dlc tp 4 sr 5 w \$10.
 Heinrich Pelzer & wf to Marion D and Irene L Taylor tracts 47 and 48 of Yamhill Walnut Groves \$1000.
 Lucius G Stafford & wf to Hiram M and Blanche C Stech 5 ac in ne 1/4 sec 6 tp 6 sr 3 w and roadway \$1500.
 Charles W Steward & wf to Joel and Jennie M Anderson 5 ac in Northeast corner Peter Smith dlc tp 3 sr 4 w \$800.
 James T Watson & wf to Severt B and Sina J Severson 57.36 acres in Wm R Johnson dlc tp 3 sr 4 w w m \$6000.

THE BUSINESS OF THIS BANK

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