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POINTS ON PASTURES

Some Interesting Facts About Grasses and Cropping.

Sod-Bound Fields and the Remedy -How Pasture Plants Grow-Good Pasturage Cheap Stock Food -Treatment of Beef Calves.

(Contributed by Ontario Department of Agriculture, Toronto.)

We frequently hear the word "sodbound" applied to grass areas, when people are discussing the failure of pastures. The meaning that the word sod-bound is intended to convey is that there are too many plants to each squire foot of area. Such condition is rarely true. Pastures seldom fail because of too many plants or over population, but they do fail through the exhaustion of the available plant feed supply. The ploughing up of old sod lands, thereby causing the roots and stems to decay, brings about increased available plant food, and this followed by reeeding, while effective, is very expensive. It is cheaper and usually better practice to adopt methods of turf improvement. It takes years to evelop a good sod, so why destroy by inverting it with the plough, when surface applications of available plant food will make such profitably roductive. To those who may think that the "sod-bound" condition cannot be remedied by any practice other than ploughing and reseeding, I would suggest that they stake off a square rod of dense sod and apply to it either one pound of nitrate of soda or a wheelbarrow load of stable manure. Conviction guaranteed.-L. Stevenson, Secretary Ont. Dept. of Agriculture, Toronto.

How Pasture Plants Grow.

The ability of grasses to withstand continued pasturing is due to the fact that the leaves are being pushed up or grow from the lower or attached end. Nibble off or cut off the upper portion of the grass leaves and the leaves will lengthen again and again so long as there is warmth, food and moisture. With the clover plant it is different. If this type of plant is cut or eaten off new buds must form, unfold and grow into stem bud and leaf. Clovers if pastured will not yield in feed more than a fraction of what such would produce if the plants were permitted to develop fully. The fact that the bitten blades of grasses will push up high enough after a few days to produce a second and a third bite makes it possible to pasture grasses with no injury to them. With reasonable care and management the grazing of grass areas may go on indefinitely.-L. Stevenson

A Large Library.

If anyone genuinely in the pursuit of knowledge were told that a study existed in the heart of London where ie could remain all day, have dozens of assistants to wait upon him, and have the right to consult any of ,000,000 volumes, how much would e be prepared to pay for this unique

Such a library does exist in doomsbury, but the occupants do ot pay a farthing for admittance. It s the reading room of the British

The books on the ground floor of the great circular room number 20,000, and comprise works of refer-

Wool Wanted!

Highest market Prices paid. Also live poultry

Heavy and Driving Horses for Sale at Right Price

P. E. Armstrong Jarvis, Ont.

HAY WANTED

The Undersigned is prepared to purchase hay in any quantities, baled or loose. Highest market price

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How to Remove Dandruff. How to Stop Falling Hair. How to Color Grey Hair. How to Reduce the Bust.

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ce, dictionaries. directories; and the latest or best

In another part of the library there are books which were printed early in the reign of Charles II., to which reference can be made if required. Every year the library catalogue grows to the additional extent of 30,000 entries.

Laughter as a Crime. The "good old days" were often

ery bad old days indeed. Oliver Cromwell and the Puritans ruled Britain a law was passed which stated that Christmas Day was a heathen festival, and insisted that no rejoicing might legally take place upon it. Dancing, singing, and merry-mak-

ing were placed under a ban. Anyone caught behaving in what was deemed an unseemly manner was either imprisoned or fined. this did not content the kill-joys. They passed an act which made Christmas a fast day. Eating and drinking were prohibited.

This state of affairs lasted until Charles II. came to the throne. It is to the Merry Monarch that we owe the fact that Christmas became once more a day of joy and gladness, instead of remaining a gloomy fast day, as it had been for so long.

Thirty one-dollar bills equal weight a \$20 gold piece.

WATER IN FARM HOMES

Compression System Will Give General Satisfaction.

Water Pumped Into a Metal Tank Against Compressed Air—Various Methods of Working the Pump-Air Valves a Necessity — Seven Steps to Success In Poultry Culture.

Contributed by Ontario Department of Agriculture, Toronto.)

In my last article I described briefly the attic tank system of water supply for the rural home. This system has given very good satisfaction in the past, but I doubt if it will be installed in many homes in the future, as there is now on the market something very much superior in many respects. I refer to the compression water system, which I will try to describe in a few words. How the System Operates, The chief feature of this system is

that water is pumped into a strong air-tight cylindrical metal tank against the entrapped air which is compressed in the upper portion of the tank, and the compressed air constitutes the power to drive the water out of the tank when a faucet is opened on the discharge line. This is very simple. The metal tank will vary in size according to the amount of water used, but a common size is 6 feet by 21/2 or 3 feet. It should be kept about full of water and at a pressure varying from 40 to 45 lbs. Greater pressure, if required, may be secured by pumping the water to a higher level than named in the tank, or by pumping some air into one side of the tank to indicate the height of the water in the tank, and on the discharge pipe close to the

the tank before any water is pumped A water gauge is attached to must be kept in a frost-proof placesay the cellar, or an underground pit. The water keeps cool, clean and fresh

in this tight tank. Methods of Working the Pump.

There are many different ways of operating the pump in order to fill the tank: By hand, by windmill, by gasoline engine, or by electric motor. A few minutes of pumping each day by hand will keep the ordinary-sized house supplied with plenty of water. When the pump can be operated by windmill or electric motor, there is the great advantage of automatic starting and stopping of the pump. The automatic electric water systems of the present day are very convenient and also very efficient. In case of shallow wells and cisterns the pump and motor can be located inside the house or barns. As farmers get electric current these automatic systems will become very common both for shallow and deep wells. The automatic systems require very little attention and are very noiseless. There are several styles or designs, but any of them of reputable firms will give good satisfaction if the installation has been done properly and if the outfit be given good care

If soft water as well as hard water is required under pressure, two tanks are necessary, one for soft and one for hard. Only one pump is required in this double tank outfit. Air Valves a Necessity. Pumps used in connection with

compression systems must be provided with an air valve for renewing the air in the tank because the air dissolves in the water and escapes with it. If means for pumping in air were not provided for, the tank would eventually become waterlogged and the system would be reniered absolutely useless.

The compression water system is described and illustrated in Bulletin 267, entitled "Farm Water Supply and Sewage Disposal." A copy may be secured without cost by dropping a line to the Department of Physics, O. A. ., Guelph, Ont. Give us a chance to help you to solve your water supply problem.-R. R. Graham, O. A. College, Guelph.

even Steps to Success In Poultry Culture.

1. Keep accurate records. Little progress can be made without this first step. 2. Feed a properly balanced ra-

tion. Such a ration furnishes nutrients for growth, maintenance, fattening and eggs. The production of eggs must be a constant aim. 3. Give proper care and comfort

by good housing and management. Discomforts are: Extremes of heat and cold, hunger and thirst, four air and dampness, and diseases and

4. Keep standard-bred, utility stock. There are five good breeds for the farm: Plymouth Rock, Rhode Island Red, Leghorn, Wyandotte and Orpington. Varieties of these have been bred for heavy egg-production. 5. Breed from the best, both male

6. Sell unprofitable stock. 7. Market graded products. Maximum returns are secured from graded products. Markets demand a con-

stant supply, and this calls for

munity co-operation,

TILE DRAINING

What the Provincial Act Boes for the Farmer.

Tiling Improves Land Year After Year - Comparison of Cost and Benefit — Government Money Loaned at Low Rates - How Fruits Ripen.

(Contributed by Ontario Department of Agriculture, Toronto.) In spite of the fact that Govern-

ment loans for farm underdrainage have been available for a number of years, it is still news for many farmers who have not sufficient capital to tile their farms. Too much cannot be said in support of this aid to increased production and enhancing the value of property. No other farm improvement will give equal returns and become a permanent improvement. Improved machinery, aithough very desirable, depreciates year by year, and in time is discarded and replaced by other and new equipment. Fertilizers are available for a year or two and have to be renewed. whereas tile drains become more efficient year after year. The soil becomes better aerated, more friable, and in a better physical condition when maximum crops will be pro-

Matching Cost and Benefit. Suppose for instance it takes \$40

to tile drain an acre of land systematically, but by so doing several hollows which never produced more than half a crop before now yield more than any place else in the field. Supposing another wet area which always drowned out does likewise, and n all we have twenty-five bushels of wheat instead of twenty, or we have sixty bushels of oats instead of fifty. These estimates are much too low. Let us see what interest we make on our money. Taking the present price of wheat as \$1.40 per bushel, we have made \$7 on an outlay of \$40, which is 17½ per cent. on our investment. With oats at 45c we have 1114 per cent. on our investment, and if these are not good returns ! don't know where to find them. Government Loans at Low Rates.

For the use of this money, on which you make large interest, the Government asks you only 5 per cent. You have twenty years to return it, long before which you have been repaid several times. Under the present act anyone wishing to tile can borrow 75 per cent. of the cost of his work up to \$2,000 per hundred acres. The loan is obtained through the township council, which is responsible for passing the necessary by-laws and the issuing of the debentures for sale to the Provincial Treasurer. No township council alive to the necessity of underdrainage would refuse to become interested in obtaining such a loan for any of their ratepayers.

Further Government assistance by way of surveys, plans and specifications for drainage work may be obtained by applying to the Drainage Department, O. A. C., Guelph. They will also be glad to assist individuals or councils in discussing with them the Tile Drainage Act, or in mailing them copies in which they can get the details .- F. L. Ferguson, O. A.

How Fruits Ripen.

The place which fruits are assuming in the dietary of man is one of growing importance. Certain species like the apple and pear, the plum and the grape, have long enjoyed a deserved popularity; others which were once among the rarities in the United States are now in great favor.

The ripening of fruits plays so important a part in their availability, and some of the problems of transportation, that authentic information on this subject is much to be desired. Some fruits, like the apple, may be allowed to ripen almost fully on the tree, and may be kept in the ripened condition for relatively long periods, if proper attention be paid to their manipulation and storage.

The physical changes, like the variation in color of ripening fruits, are familiar, since they are evident to the senses; but these alterations are merely indicative of changes in the chemical make-up of the fruits under the conditions which determine ripenng. Heat, moisture, air and light may all participate in determining the characteristic changes that ensue. Laboratory reports of statisticians' investigations in recent years have given clearer indications of what takes place. Among the changes are the transformation of the starch into sugar, the conversion of soluble tannin compound with their astringent properties into insoluble forms, the actual lessening of the quantity of acid, or the masking of the acid flavor by the accumulation of sugar, the softening of woody tissue, and the

increase and storage of juice. With the growing knowledge of what the ripening of fruits really involves, we are certain to acquire better ideas of what a properly ripened product should really be. The fact that unripened (winter) apples are unfit for consumption in the early fall, because instead of sugar they contain a large amount of raw starch, which will disappear with the "mellowing" process, will be understood in a more intelligent way than has usually been the case.

Shade Trees on Highways,

Our highways would be much more attractive if lined with shade trees. These trees could be set 50 or more feet apart and would do little damage either to the adjoining property or the roadway. They would make the road pleasanter to travel over and also to live by.

Go through the grain fields with the object of removing impurities and

"I can always tell whether the passenger riding beside me in the front seat is himself an auto driver," said the chauffeur. "This is especially true if he's nervous. If the passenger sees some obstacle ahead he unconsciously presses hard on the footboard with his right foot—the one always used to depress the brake

"Sometimes I have seen a nervous passenger shoot his foot out and slam down hard on the footboard when in a particularly trying traffic jam, releasing his foot when the obstacle ahead has been removed. I have even seen passengers riding in the rear of touring cars or taxis do

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Summer Frocks in Full Bloom

Rack I. Women's Sport and Porch Dresses in Beach Cloth and Ginghams. All the popular shades. Sizes 16 to 40. Regular \$8 for \$6.50

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Rack 3. Women's Dresses in Gingham. Ratine, Beach Cloth and Voile. All shades. Regular \$15 for \$10

Rack 4. House Dresses, many pretty styles in Ginghams and Striped Prints. Special price \$3

The newest styles in Bathing Suits in Wool Jersey trimmed with Tricolette and all Silk. All shades. \$4 to \$13.50

Bath Towels for the House, Hotel, Boarding House or Lake

Extra heavy quality, all of them the best Bath Towel bargain of the year. Sale in Staple Department. 4 styles, all the same price. 2 to 94c

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Children's Fine Ribbed Hose, sizes 8 to 10. Regular 50c. Special 3 pairs for \$1.00

Children's Fine Ribbed Hose, sizes 5 1-2 to 71-2. Worth up to 40c pair. Special, pair, 29e Women's Black and Brown Cotton Hose, full fashioned. Sizes 81-2, 9 and 91-2. Regular 50c

value. Special, pair, 29c Odd lot of Women's Fine Lisle and Mercerized Hose in Sand, Brawn and Black. Regular price up to \$1 pair. Special, pair, 50c

Women's Plain Black Cotton Hose, full fashioned. Sizes 81-2, 9 and 91-2. Regular price 75c pr. Special 2 Pairs for \$1.00

In Falls' Men's and Boys' Store You Can Buy

"Home Run" Baseball Bats, each 50c

Elderly Men's Fine \$1 Straw Hats for 50e Boys' Foulard Four-in-hand Ties, each 25c

Men's Seamless Field Sox, extra heavy. Per pair, 25c Boys' Fine Fancy Striped Pajamas to fit boys to 16 years. \$2.00

Boys' White Sport and Tie Collar Blouses to fit boys to 16 years. \$1 and \$1.25

grade for \$1.50

Men's Very Fine Natural Leghorn Hats, heavy silk band. A special at \$5.00, on sale at \$3.75

IN THE DOWNSTAIRS STORE

Seafoam Soap Chips, package, 21c White Star Hand Soap, 15c

Sani Flush, 30c

Bull Dog Ammonia, 2 for 27c Fairy Soap, 3 for 27c

Infant's Delight Soap, 3 for 25c

EXTRA! EXTRA!!

"Richards" and "Old Homestead," well seasoned. A 1st class laundry soap. 5 for 23c

"London Special" Laundry Soap. An A-1 soap, large 1-lb. bars. 6 for 39c

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