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forth Carolina Reform Press Association. Officers-J. L. Ramsey, President, Marion Buller, Vice-President; W. S.

Sames, Secretary. PAPERS.

regressive Farmer, State Organ, Raleigh, N. C. Raleigh. N Baucaslan. Hickory, N Whitakers, Roaver Dam, 1 pillst, le's Paper, Lumberton. Charlotte, 1 Concord, M

A Boy. amina Watchman.

Each of the above-named papers are prested to keep the list standing on he first page and add others, provided Mey are duly elected. Any paper failin to advocate the Ocala platform will adropped from the list promptly. Our ole can now see what papers are pliched in their interest.

Wadesboro, 1

Sa.isbury, N.

AGRICULTURE.

Let's all get a move on us and meet

well as a farm education; they work Well together.

Arrange so there will always be a good supply of good, dry stove wood conventent to the kitchen.

The grain raising portions of the South will reap a little benefit from the higher prices. That is some help.

Agriculture is going into the common Chools of the country just as soon as the people become thoroughly aroused bille importance.

The breeder who begins now to raise lew good colts will not regret it. By be time they are ready to use there Will be a great demand.

duryman and the intensive farmer on without this. All have more money at the end of ext year than the man who plodong in the old ruts.

as used by botanists, is the species, but the individuals of a species vary among themselves and constitute groups known as varieties. Varieties are more changeable than species and are especially liable to be formed as a re sult of cultivation, or when they grow amid the conditions of cultivation Hence we have many varieties of each species of cultivated plants. All the immense number of varieties of maize doubtless have arisen from one original wild species, and so of the varie ties of potatoes, of wheat, oats, barley

The tendency which plants have to run to varieties to suit the local con ditions shows itself even in the uncul tivated weeds that infest the fields and gardens. Special varieties adapt them selves to the local conditions they find in cultivated soil, because thus better adapted to fight their way and main tain a hold against the aggressions of the farmer or gardener who tries to kill them.

Precisely so with the turf grasses A single species may exist as numerouvarieties, some more robust or aggressive, others less so having differen capacities to withstand too wet or to dry periods, to stand droughts, or other vicissitudes of climate, or to en dure and flourish under the grazing of be good times we are wishing for half cattle. Let us keep in mind, also, that while the natural tendency of plants is Give the boys a literary education as to produce seed and propagate in that way, in crops of grass, either when cut

for hay or grazed for pasture, it is foliage, not seed, that is the aim of the farmer.

In nature and in art, there are two ways by which plants are propagated: the "sexual" method through the pro duction of flowers and seed and the "non-sexual method" which includes many forms, such as underground stems in some species, builts, tub-rs runners, etc., tillering with grains and grasses, etc. In artificial culture, propagation by means of grafts, buds. cuttings, and similar ways belong to the non sexual methods, and are verextensively practiced. Gardening and The poultryman, the hog raiser and fruit growing could hardly be carried * * * Now, in the production of new varie ties by nature, the vast majority come through the seed. Some plants of a new generation diff r from the parents. It may be that the new variety will perpetuate itself from the seed, more often it does not, at least with that certainty and completeness that farm culture. ers and gardeners wish. Hence, in farm and garden practice, where crops are from annual plants, we seek varieties that grow true to the seed as is the case with our grains and most of our vegetables. When of long lived plants, we often propagate the varie ties only by non sexual methods, by cuttings, grafis, buds, etc. Such is the practice with most of our larger fruits and with many ornamental plants and only by such methods could our wonderful success have been achieved In many cases, the value of the variety has increased as the ten dency to produce seed is reduced. Many of our best fruits produce seeds but sparingly, some not at all. We ed to India from this country, one or have a familiar example in bananas wo shiploads of corn have been bought which have been so long cultivated and propagated only by suckers, that all the best varieties are seedless. I larger crop entirely free from smut.

studies turf grasses. A bit of sod is carefully torn into fine shreds, its indi vidual plants separated and set out each by itself and allowed to spread by the sprouts from the root crowns, un til it forms a bit of turf of its own sort. This is essentially the way they spread in a pasture or meadow. Any other sort appearing in its plot is carefully weeded out and the variety is studied as a "Pure culture," so to speak. There is no limit, theoretically, to this method of propagation. It is doing with grass what is extensively done in many pranches of horticulture and even in agriculture. It is entirely practicable for lawn purposes and may be for cer tain phases of field culture. That, nowever, is not yet proved It is not orobable that a meadow can be as practicably planted out as a tobacco field, but for certain purposes such planting is probably practicable. It certainly is on as large a scale as has yet been tried. My own dooryard has

ocen turfed from one original plant. ONTARIO AGRICULTURAL AND EXPERIMENTAL UNION.

ONTARIO AGRICULTURAL COLLEGE

Gu iph, Can Nov. 27 1896 Correspondence of The Progressive Farmer. Enclosed you will find a programme of the next annual meeting of the Onpario Agricultural and Experimental Uaton, which is to be held at the Agriultural College, Gielph, Canada, on the 10th and 11th of December next, The cooperative e perimental work is increasing year by year, as shown by the fact that in agriculture alone, there were upwards of 11,000 plots used for experiments throughout Ontario in 1896 These plots were situated on 2 260 different farms. The Union pens up a channel through which the oest material of the Experiment Sta tion can be brought to the homes of ne farmers; it makes direct applica tion of information found out at the Experiment Station, by having experi ments conducted upon hundreds of forms; and it systematiz s the co-opera tive work in such a way that the re sults can be summarized and made into valuable reports for the farmers gen

harm'ul results are only temporary and will disappear with the other crops grown, but the truth is that the other crops increase rather than lessen the harmful (ff ets of those elements.

Colorine is the most harmful ele ment, entering into the growth of plants, that tobacco comes in contact with, from the fact that the more of it there is present in a fortilizer or in the soil the more, within certain limits, will the crop take up. Chlorine, when either in the soil or a fertil zer, cannot be neutral zed or have its harmful

effects lessened by applying other ma terial, but whenever present it is sure to exert its influence. Chlorine exerts its bad influence by making the leaf burn badly-not holding fire well, producing a dark, brittle ash, and also

producing an off fl.vor and aroma. Lime and magnesia do not have so direct an effect upon the burning qual ity and they are easily masked by other elements, but they most always have a tendency to make the t bacco ripen unevenly and cousequently it cures badly.

The other elements found in potash fertilizers either produce no effect or exert a beneficial influence upon tobacco.

The following potash fertilizers should be applied to tobacco or used in tobacco gro - ing sections:

Muriate of potash is a salt formed by the combination of chlorine and potash. and it comes upon our markets in a pretty nearly pure condition. It con tains more chlorine than any other potash fertilizer, and therefore should never form a part of a fertilizer to be applied to tobacco or used in a tobacco growing section on land that may some time be planted in tobacco.

Kainit is a mixture of potash and magnesia, potash and magnesia sul phates, and considerable common salt (sodium chloride] and because of the large amount of chlorides (chlorine) which it contains it should never be applied to tobacco or land that is to be planted in tobacco at some future time Low grade sulphate of potash (sul phates of potash and magnesia or double manure salt) contains a small

soil, and as the tobacco crop is the only one that would take this up more freely the wheat trade formerly enjoyed by than the others, because of its being present in great quantities, it will be in Chicago wheat shipments. apparent to all that if they wish to escape the evil effects of chlorine upon tobacco they must use fertilizers with all their crops that contain either no chlorine or but a trace of it.

-----PERMANENT PASTURES.

Prof. B-nnett, of the Arkansas Agricultural Station, has the following to say on the above subject: In making a temporary pasture for only one or two years the clovers should be used. It is not profitable to sow grasses for pastures unless the pasture is to re main for a greater period than two years. The poorest soil of the farm, especially where land is abundant, is no doubt the best to put in pasture, but it must be remembered that poor, barren soils will not make good grass pas tures, though pastures, whether grass or clover, can be made on poorer soils than meadows can If the soil be too poor to bring grasses for permanent pasture it can be quickly improved by sowing Japan clover and grazing it for two or three years; then plant and turn under a crop of cow peas and sow the grasses and clovers that are to form the pasture mixture. Japan clover need not precede the cow peas if the soil is not very poor.

All permanent pastures should be sown with mixed grasses for the reason that mixed grasses ripen at different seasons and grazing will be furnished throughout the year. Hungarian Brome grass, tall meadow oat grass, tall feecue, orchard grass and red clover form a good mixture that ripens at different dates If the soil is not fertile, tall fescue and red clover will not succeed and should not be plented. Bermuda grass is the best summer grass for this soil, but there is no other plant that is commonly sown with it to furnish grazing in winter and early spring. But clover is said to do it suc cessfully. It can be sown every fall if no seed matures, by first scarifying the Bermuda sod with a good harrow. Scarifying should be done every fall to get the clover seed in the ground. Crimson clover on fertile soil makes go d winter and spring grazing. It should be sown in August or early in September if the season will permit. Ole of the best plans for hay and winter pasture on poor uplands is to sow fescue grass and cow pess. The fescue will come up in the fall and grow for grazing during winter and reseed in early spring. Cow peas may then be planted and they will come off in time for the fescue to grow again during the succeeding winter. This process can be continued as long as desired. The pea roots fertilize the fescue. This combination furnishes abundant rich cow pea hay and excellent grazing in the winter and spring. The only objection to this plan is that the fescue may not, on account of soil or season, begin much growth until late in winter or early spring

east, have tended to divert a part of New York; hence the new departure

It is difficult accurately to calculate the financial benefits of America's wheat crop when prices are fair, but they are enormous. The total crop of 1896 is estimated at 435 000 000 bushels. If the market keeps up and the average price of wheat at the seaboard is 80 cents a bushel, this means the addition of \$388,000,000 to the country's wealth. It is true that the farmer does not get all this immense sum, and that the railroads to get a large slice, but the bulk of all the money paid to the railroads, lake vesselmen, elevator and other terminal corporations, for handling wheat, is paid out again at once in the form of wages, to the benefit of those who work with their hands.

In this way a profitable wheat crop benefits almost every class in almost every part of the country. It does not, however, bring the full value of the crop into the country in the form of "foreign gold," for the United States is not only the greatest producer of wheat in the world, but the greatest consumer as well, it being estimated that 375, 000,000 bushels are disposed of every year within the boundaries of Uncle Sam's dominions. Accepting this estimate as correct, 60,000,000 bushels of the crop will be available for foreign shipment. That there will be a de-

mand for all this wheat, and more, from abroad, there is good reason to believe, because of the short crop elsewhere. At 80 cents a bushel the inflow of foreign money for this year's surplus would be \$48,000,000. This will not be the extent of the cash receipts from wheat this year, however, since the left over surplus from last year amounts to 80,000,000 bushels, which at the same rate, will bring \$61,000 000 more, or \$112 000 000 altogether. Counting the population of the country at 70 000,000, the wheat for sale outside the United States this year will show from the outside world about \$17.40 for every man, woman and childenough to furnish hats and shoes for all and leave a handsome surplus.

Unless a man has busicess ability, it all not help him much to have a head Il of theories about farming. But if has energy, thorough knowledge All help him wonderfully.

The improvement in farming methoabout to be inaugurated all over te South will result in proving to the orld what has long been known by he residents of the South-that this is to best section of the United States. Intensive farming may properly be armed a new industry, from the fact at there are so few engaged in it. It an industry which commends itself every practical farmer, and there is ore money in it than in any system the old style.

No rain in India up to late November ought further distress to famine dis lots, while in certain provinces the ^{op condition} was improved. In ad to several cargoes of wheat ship New York, the first business of this and on record.

erally. The influence of the Union is potent in bringing farmers in closer touch with the Agricultural College; in fostering kindly feelings between the graduates and their Almamater, and in a wakening lines of thought and ob servation in the minds of those engaged in the various branches of agri

We ask your careful examination of the programme enclosed, and extend to you a very hearty invitation to be present at the next meeting of the Union. We would be greatly pleased indeed if you could find it possible to be with us on this occasion.

Hoping to see you at the meeting, I remain, Yours very truly,

> C. A ZAVITZ, Experimentalist. -----

A bulletin of the Onio station tells how seed oats were successfully treated by the hot water method in 1895 and 1896 to prevent smut. It is estimated that Ohio farmers lost not less than half a million dollars this year on ac count of smuts in oats. The crop from untreated seed at the station showed forty smutted heads out of every 100. while the treated seed yielded a much

per cent. of chlorine but a large per cent of magnesia, sulphate and conse quently should not be used in tobacco tertilizers, though infinitely better than any of the previously named pot ash salis.

Wood ashes some times contain con siderable chlorine and the lime which they contain in some cases, will exert a detrimental influence, therefore, not withstanding the fact that the potash is in the very valuable form of the car bonate, their use for tobacco cannot be recommended.

The following potash fertilizers are recommended for tobacco and for use in tobacco sections:

High grade sulphate of potash exerts a beneficial effect upon the quality and quantity of tobacco to which it has been applied. It contains only a trace of any detrimental element. It fur nishes the potash in a concentrated form, containing 50 per cent. actual potash (K 2 O). It is the cheapest form of potash which can be safely used in tobacco culture.

Carbonate of potash and magnesia is a comparatively new form of potash that has been introduced in the fertilizer trade. Experiments so far with acre. Gold standard did it.

land is so great that farm lands will hardly bring any price at all. Farms in remote sections can be had rent free, the renters agreeing to pay taxes, which amount to from \$1 to \$2 per

LANDLORDISM FATAL.

In Great Britain agriculture is in a state of collapse and the government is making desperate efforts to remedy the evil. It is admitted that the lack of co operation among the farmers has brought British agriculture to its present condition. In France, where cooperation was begun thirty years ago the six million peasant freeholders have made steady progress. The effect of the societies and syndicates all over the country is shown by the large reduction in the cost of fertilizers and other supplies and consequent larger yields. The present condition of British agriculture is due largely to the landlord system, says the Denver Field and Farm. Peasant proprietorship and co-operation have sustained and built up agriculture in France, and it is realized in England that the example The agricultural depression in Eng. of her neighbor across the channel must be followed to save her farming interests from ruin. One of the best indications of the future prosperity of agriculture in the United States in shown by the fact that jour farmers realize the necessity of co operation.