## Home Course In Modern Agriculture

VIII.-Corn Growing

By C. V. GREGORY. Agricultural Division, lowa State College Convright, 1908, by American Press Association

INCE corn is the principal crop

than half that, as at present, tors to be considered-the soil and the seed. Of these two the first is prob-



FIG. IV—ONE OF THE BEST WAYS TO HANG UP SEED CORN.

first step in preparing the soil for a yard manure liberally and by follow-

to a considerable extent by tile drain- as much as possible. age and by keeping the surface loose supply of humus will aid greatly in

alike as it was possible to make them | readily determined. the yields from the different strains Shortly before planting time the

ity and to some extent for each farm. stand will almost certainly result.

provement and one that has simplicity ered with moist soil. If this can be to recommend it is that of selecting a done without putting it down more number of the best ears each year and planting them in a field by themselves or in one corner of the main field. By selecting the best ears from this breeding plot each year to plant next year's breeding plot and using the rest of the good ears to plant in the main field some improvement can be effected. The weak point in this plan, however, is that the yielding power of an ear cannot be told from its appearance. Neither is it possible to prevent inbreeding by such a method.

To avoid these difficulties the "indi vidual ear" plot has been devised. This should preferably be at least forty FIG XVI-A Gelisionaries now showish THE RESULTS OF AS INDIVIDUAL SAN rods from the nearest cornfield. Where this is impossible a strip along the

to a convenient length for the plot you can find among your seed corn litto strong, healthy plants. and plant them in as many rows After planting the aim should be to across the plot. The work can be keep the soil in the same fine tilth it done with a planter if care is taken to clean the seed boxes out thorough- provide large feeding ground for the by each time across. The cultivation from and prevent the escape of capilgiven to the plot should be the same | were motisture.

burnmunum grown over so large a section as that which the main field receives, no wood is so freely and successfully of the United States it is im- The time for special treatment imitated. portant that we learn as much comes when the tassels begin to apas possible regarding the best meth pear. We have already learned that The average inbreeding is weakening and that yield of corn in the United States in cross fertilization develops strength dustries draw heavily upon the mar-1907 was only 23.7 bushels per acre. and vitality. In order to prevent in kets of the world in the struggle to Many of the best farmers are able to breeding in the individual ear plot supply an ever increasing demand for joyful relief in five minutes. obtain an average yield of sixty to the tassels on every alternate row genuine mahogany. Hundreds of tons seventy bushels per acre year after should be pulled out as soon as they of logs annually are imported into Bros. Co. go so far as to guarantee you an attractive offer. In case you

methods. They are simple enough to removed before they shed any pollen be applied to every farm in the corn it will be necessary to go over the There is no reason why the field every other day for a week after nify the interior of public buildings, average yield per acre should not be the first tassels start. At the same large hotels or railway cars. fifty bushels or more instead of less time any tassels from weak, barren or A few years ago mahogany was re-In preparing to raise a maximum pollen from healthy, vigorous stalks crop of corn there are two main fac- is allowed to mature. Thus the ears yields when planted than would ears use. picked from the general field.

The most important point, however, is the selection of high yielding ported last year was nearly forty-two it cures coughs, colds, asthma, hay strains that is made possible by have million board feet. Of this large fever and croup without stomach dosing the ears planted in individual amount North America supplied 65.6 ing. rows. When harvesting time comes per cent and Europe 18 per cent. the produce of each row should be husked separately and weighed. It will be found that there is a great ably the more important. We have difference in yield. The highest yieldalready learned how the plant obtains ing rows, provided the corn is of North America, its average value per food and water from the soil. The good quality, should furnish seed for thousand feet was more than twice next year's breeding plot. The rest as much, due to finer quality. The recorn crop, then, is to see that there is of the good seed ears from the detas- mainder of the imports came from a plentiful supply of plant food on seled rows should be planted in a Africa South America and Asia. hand. This we can do by using barn- small field, known as the "multiplying plot." The best of the seed from this ing a consistent system of rotation multiplying plot can be used to plant that will equalize the demands made the general fields and for sale.

from year to year a strain of corn 15.5 per cent, Cuba with 8 per cent, The next point is to see that the soil may be built up that will far outyield is in such condition that the roots the ordinary corn of the neighborhood. will have little difficulty in branching. In addition to the increase in yield out to secure the needed plant food which will result on your own farm, a and water. Thorough plowing disk- trade in seed corn may be built up will have little trouble in obtaining the plan of breeding here outlined, but

With a warm, well prepared soil may be taken from as many ears in what now remains in any consider plant food and water the next ques corn has exceptionally strong vitality transportation facilities. tion that comes up is regarding the the kernels may all germinate. In varies greatly in its ability to produce and bulletins that it will be unnecesyields. In the spring of 1905 the lows sary to give it in detail here. It sim-

varied from thirty-one to eighty bush- ears should be shelled and run through els per acre. This variation shows a seed corn grader to take out the butt that a large share of the improvement and tip kernels and divide the rest that a large share of the improvement and tip kernels and divide the rest in corn production must come through into even grades. The next step is to age. After much experimentation Mrs. Hosford, was left \$1, but in case from a distance. Corn is very sensi- plates until a set is found that will tive to changes in climate and soil. To drop the required number of kernels obtain the best results the work of practically every time. If this is done breeding must be done for each local- and well tested seed used a good A method of improving seed corn Avoid too deep planting. All that is York, Louisville, New Orleans, Chi-husband, Milton Hosford, her home that will surely result in some im- necessary is to have the seed well cov-

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south side of a field of the same vari- than an inch or two, so much the betety may be used. As the prevailing fer. Since the plant cannot begin to July and August winds are from the direct and use the plant food of the south, very little pollen from the main well and air wail it has unfolded its field will blow over on the breeding feaves it is pink that the less sail it has to push through before it can Each row in the individual ear plot spread out its leaves and get to work Is to be planted with the kernels from the scener it will commence to grow. a single ear. As any fair sized ear Deep planted such often so nearly will plant a row forty rods long, this exhaust the plant food in the endosperm before they reach the surface Select from 50 to 100 of the best ears that they are never able to develop

was to at planting time in order to

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RAPIDLY DISAPPEAR-ING.

For refined expression in the manufacture of furniture and all other forms of interior decoration, makesany is undoubtedly the peer of the hardwoods. No wood is so univerevery city and country of the world;

America's architects and men of he furniture and cabinet-making inthe furniture and cabinet-making inyear. There is no secret in their appear. In order that these may be mathods. They are simple enough to removed before they shed any pollen ful forms to grace fine homes or dig.

Of logs annually and worked into beautiful to cure catarrh or money back. If to cure catarrh or money back. If to cure catarrh or money back. If the country and worked into beautiful forms to grace fine homes or dig.

spindling staks in the other rows garded as a very precious wood, and should be removed. In this way only was employed only in the interior of the finest houses and in the manufacon the detasseled rows, being cross ture of the most expensive furniture. fertilized and having only strong, During the past few years, however, healthy male parents, have a much there has been a wonderful developbetter chance of producing large ment in mahogany importation and

The total quantity of mahogany im- a day, is the selection of high yielding ported last year was nearly forty-two hogany as there was imported from

Mexico furnished 46.2 per cent of the mahogany coming from North America. Nicaragua followed with on the soil and keep up the supply of | By continuing this breeding process 19.2 per cent, British Honduras with the small remaining percentage

Some time toward the close of win. Cuba claims that nearly all of the Jones Drug Co. securing a warm seed bed by planting fer the corn should be tested. For a valuable supply of mahogany of that preliminary test a hundred kernels island has been exhausted and that containing sufficient quantities of different parts of the room. If the able quantities is far remote from

The number of buyers of mahogkind of seed to put into that soil. Alcase some of the kernels fail to grow
most any kind of seed will grow and
or any considerable number show
produce a fair crop under favorable
weak sprouts each ear should be testket is now exceeded only by those The seed of different strains of corn so many times in agricultural papers mahogany is that the importers of experiment station gathered seed from ply consists in placing several kernels nearly a hundred different sources and from each ear in a corresponding prices beyond a modest profit, and it the will reads in part as follows: planted it on the station grounds. Un- square in the germinating box. In this is relatively so low that it now makes der conditions that were as nearly way the vitality of each ear may be little difference in price whether an all of my just debts and expenses be office building or home is finished in duly paid and satisfied as soon as mahogany or quartersawed oak.

Another reason for its popularity decense."

is because it improves in tone with

Mrs. Anna Phelps, as sister, of chief centers of mahogany importation \$1. and manufacture are Boston, New cago and Indianapolis.

vided in many massive arms.

Journal there appeared recently an church to be used for church and in words the good opinion I have of mahogany trade in England. Accord-



Special for this Week. Malta Vita Currants .....

## A. ROBERTSON

THE 7TH STREET GROCER. Both Phones 41.

DECORATIVE HARDWOOD ing to this writer mahogany wood was We'll Take Your first imported by England in 1724, although in 1597 Sir Walter Raleigh demonstrated the great value of this MAHOGANY, THE PEER OF ALL, wood which was used in repairing his ships at Trinidad. From 1724 until the discovery of the mahogany for. Eller's Piano House Will Make Liber ests of Africa by Stanley, England and Continental Europe were heavy purchasers of mahogany from the West Indies, Honduras and Mexico. A great part of the mahogany used in this country in early years came from Europe, it first having reached sally used today for this purpose in there from the West Indies, Mexico and Honduras.

CATARRH MUST GO.

(pronounced High-o-me) It is such a remarkable cure, and

dollar and if an extra bottle is af. you giving our most liberal terms. terwards needed, the price is only |-

Hyomei is a healing antiseptic balsam, taken from the mighty encalyp-tus trees in the health-giving forests 353 Washington St., Portland Oregon of Australia, where diseases of the respiratory tract are unknown.
All the sufferer has to do is to inhale the antiseptic air of Hyomet over the inflamed parts, where the germs are entrenched three or four times

Letter List.

List of unclaimed letters at the ing March 12:

Woman's list-Beeckle, Mrs. Ber-Miss Nina; Robin, Mrs. Francis E.; county. She was married to Almond Miss Sophie Shives. Men's list-Moore, M. E.; Remele,

Jacob: Taylor, J. L.

Night On Bald Mountain.

and Honduras with 7.4 per cent. Other central American countries furnished tain to the home of a neighbor, torture moved to Wenatchee, Washington, W. M. Stone a well-known and Ginther, Ivan Moehnke, Visitors present: E. F. Ginther, G. A. Shubel, he small remaining percentage ed by Asthma, bent on curing him where they have resided until very of Oregon City, Oregon, says: I have Immediately following the war with Dr. King's New Discovery, that recently, but during her illness was ing and harrowing will make the soil that will add materially to the year's Spain, lumbermen of the United had cured himself of asthma. This moved to her daughter's home, Mrs two boxes of Doans Kidney pills. My fine and mellow, so that the roots profits. There are many variations in States exploited the largest and most wonderful medicine soon relieved and Robert Johnson of St. John, Ore. She accessible of the Cuban mahogany for quickly cured his neighbor. Later it was the mother of eight children, and ney secretion. I had to get up often all the pinnt food they can use, protided it is there at all.

The water supply can be regulated

The water supply can be regulated

The water supply can be regulated cars and to prevent cross pollination

The water supply can be regulated cars and to prevent cross pollination

The water supply can be regulated cars and to prevent cross pollination

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The water supply can be regulated cars and to prevent cross pollination can be regulated cars and to prevent cross pollination can be regulated cars and to prevent cross pollination can be regulated cars and to prevent cross pollination can be regulated cars and to prevent cross pollination can be regulated c Cuba contributed more largely to the trouble. Millions believe its the great-rons, Samuel and Elmer, who resules supply in this country than at the est Throat and Lung cure on earth. in Washington, and one daughter, Mrs such great relief through the use of often makes life a burden and Doan's Kidney Pills I do not healtate. as much as possible.

After the seed corn has been picked present time, largely owing to the Coughs, Colds, Croup, Hemorrhages Neille C. Johnson of St. John; also Doan's Kidney Pills I do not healtate disturbs aleep and rest. Quick relief to check evaporation. The tempera- it should be stored in such a manner rapidity with which this valuable tim- and sore Lungs are surely cured by three brothers and three sisters, Mrs. to recommend them. to the soil is also an important that it will pass through the winter ber was logged and shipped. An entropy of the soil is also an important that it will pass through the winter ber was logged and shipped. An entropy of the soil is also an important that it will pass through the winter ber was logged and shipped. An entropy of the soil is also an important that it will pass through the winter ber was logged and shipped. An entropy of the soil is also an important that it will pass through the winter ber was logged and shipped. An entropy of the soil is also an important that it will pass through the winter ber was logged and shipped. An entropy of the soil is also an important that it will pass through the winter ber was logged and shipped. An entropy of the soil is also an important that it will pass through the winter ber was logged and shipped. An entropy of the soil is also an important that it will pass through the winter ber was logged and shipped. An entropy of the soil is also an important that it will pass through the winter ber was logged and shipped. An entropy of the soil is also an important that it will pass through the winter ber was logged and shipped. An entropy of the soil is also an important that it will pass through the winter ber was logged and shipped. An entropy of the soil is also an important that it will pass through the winter ber was logged and shipped. An entropy of the soil is also an important that it will pass through the winter ber was logged and shipped. An entropy of the winter ber was logged and shipped. An entropy of the winter ber was logged and shipped. An entropy of the winter ber was logged and shipped. An entropy of the winter ber was logged and shipped. An entropy of the winter ber was logged and shipped. An entropy of the winter ber was logged and shipped and was logged and shippe early growth. Drainage, cultivation storage as given in article No. 6 should ties during the recent intervention in Trial bottle free. Guaranteed by Pearl of East Portland; Robert Hu States.

HOSFORD WILL FILED.

Leaves House and Lots in Canby to Relatives.

The will of the late Mrs. Cynthia Pall-bearers at the funeral were: H. Hosford, of Canby, was filed in F. T. Barlow, Jos Chase, W. H. Matproduce a fair crop under favorable weak sprouts each ear should be test conditions. What we are after, howed ed separately in order that the weak of oak, maple, poplar, basswood, ash, day. The date of the will is Janu: and John Lewellen. the county clerk's office last Thurs- toon, W. W. H. Samson, James Tracy, of making this test has been described principal reason for the popularity of New Fee is and George Brown, af New Era, is named as executor. Mrs Hosford, who was 73 years of age, the logs and the manufacturers of died at Canby on Friday from a short yields. In the spring of 1905 the lown sary to give it in detail here. It sim-experiment station gathered seed from ply consists in placing several kernels lumber have never advanced its lumber have never advanced its limber, and it limber, and its lumber have never advanced its lumber have never advanced its lumber.

n corn production must come through the breeding of high yielding strains.

It is not safe to ship in seed corn plates until a set is found that will stands satisfactorily the severe usplates. The found that will stands satisfactorily the severe usplates until a set is found that will stands satisfactorily the severe usplates. The found that will stands satisfactorily the severe usplates until a set is found that will stands satisfactorily the severe usplates. The found that will stands satisfactorily the severe usplates until a set is found that will stands satisfactorily the severe usplates. The found that will stands satisfactorily the severe usplates until a set is found that will stands satisfactorily the severe usplates. The found that will stands satisfactorily the severe usplates until a set is found that will stands satisfactorily the severe usplates. The found that will stands satisfactorily the severe usplates until a set is found that will stands satisfactorily the severe usplates. The found that will stands satisfactorily the severe usplates until a set is found that will stands satisfactorily the severe usplates. The found that will stands satisfactorily the severe usplates until a set is found that will stands satisfactorily the severe usplates. The found that will be severe usplates the found that will be s in corn production must come through into even grades. The next step is to the breeding of high yielding strains. block up the planter and run through car builders finish practically all of of her death, her children, are to be tills age and also holds its finish. The Ellis, \$1; a nephew, Melbourne Ellis,

In her last request she leaves her on the premises at Canby, consist-The mahogany is the wood of a ing of lots 4, 5, 6, of block 4 in the tree of Swienenia, of the natural family of Cederelaceae, named by Juamitted to live on said premises and also very annoying and embarquin in honor of J. Van Swieten. The occupy the same during the remaindbeautiful, with large spreading head death, all of the real estate consistand ulmate shining leaves. The ing of the three lots in Canby, with box. Before I had used one box I trunk is often forty feet in length all appurtenances, shall be sold at and six feet in diameter and is diin the London Timber and Trade of the sale to go toward the M. E. the best advantage, and the proceeds

Mrs. Hosford had been enjoying the best of health until just recently, when she was taken III. Her hushand has been lying dangerously iii at the family home in Carby for several months, and has been taken to the Good Samuritan Hospital in Portland, since his wife's death.

### A Common Cold. We claim that if eatching cold could

be avoided some of the most danger-ous and fatal diseases would never be heard of. A cold often forms a cul-ture bed for germs of infectious dis- Restoration to Entry of Lands in Nacases. Consumption, pneumonia, diphtheria anr scarlet fever, four of the most dangerous and fatal diseases, YOU'LL HAVE YOUR HANDS FULL are of this class. The culture bed to find better groceries at more reasonable prices than we offer. In fact opment of the germs of these diseases we do not believe you can do it. Don't that would not otherwise find logg-say you can without first examining ment. There is little danger, how-our groceies and learning our prices. ever, of any of these diseases being That's only fair to us and fair to contracted when a good expectorant yourself. The better judge of qual-cough Remedy is used. It cleans out ity and value you are the surer we these culture beds that favor the dev-are of your order. elopment of the germs of these dis-cases. That is why this remedy has . The per pound proved so universally successful in .5c per package preventing pneumonia. It not only 10c per package cures your cold quickly, but minim-

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C. A. HOLMES, Prop.

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al Terms to Secure Second-Hand Organs-Either for Cash or on Exchange Basis.

Being in a position to dispose of a number of second-hand organs at once, we will take your old instrument either for eash or as part payment toward any plano in our stock, rather than wait for these instruments to come in through the usual course of

If your organ is in good playable condition, or can readily be put in will give the sufferer from catarrh saleable shape, we would like to have you call on us at your earliest convenience and we will be glad to make live too far to make us a personal a hard rubber pocket inhaler, a bot- of your organ, when our mail-order tle of Hyomel, and a unique dropper for filling the inhaler, only costs one department will immediately write Remember it is necessary for us

to have these organs at once, so call or write to day. Eller's Piano House,

MRS. HOLCOMB LAID TO REST Large Concourse Pays Last Respects to Good Woman.

The funeral of Mrs. A. Helcomb was held at the Congregational church in this city Friday, at 2 o'clock, attended by a large concourse of sorrowing relatives and friends. Mrs. Holcomb was born in Saline county, Mo., Feb. 21 Oregon City post office for week end- 1837, she being the daughter of Samuel and Faith Hughes who crossed the plains in the year of 1853 to Oregon, 1871 she and her husband moved to pains you must cure the kidneys. On a lonely night Alex. Benton of Lonerock, Umatilla county, and resid- Doans kidney pills cure sick kidtroubles were occasional dizzy spells ghes of Palouse City, Wash., and Remember the name-Doan's-and cases have been cured by its use. William Hughes of Thorton, Wash. take no other. She was a devoted wife and an ever

Agtchful and affectionate mother, a dear sister and a kind neighbor, loved by all who knew her. She was a member of the Congregational church

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When the kidneys are sick, Nature tells you about it. The urine is natures calander. Infrequent or too frequent action; Any urinal trouble tells of kidney

ber trouble became so had with me about two months and that I was obliged to do something to ease the suffering. The trouble bothered me most in the morning for two or three hours after I arose. The too frequent action of the kidney secretions was received the best results from Doan's was completely free from every symptom of the trouble. The kldneys were strengthened and my general health became better. I can hardly express Dean's Kidney Pills,"

Plenty more proof like this from Oregon City people. Call at Huntley Bros, brug store and ask what their customers report.

For sale by all dealers, Price 50 cents. Foster-Milburn Co., Buffalo New York, Sole Agents for the United 1

Remember the name-Donn's and take no other.

Lists 2037 and 6-61.

tional Forest. is hereby given that the lands de

claiming any of said lands for agricultural purposes prior to January 1, 1906, and has not abundoned same, has a preference right to make a homestead entry for the lands neturally occupied. Said lands were lated upon the applications of the persons mentioned below, who have a preference tight subject to the prior right of any such settle, provided such settler or applicant is qualified to make homestead entry and the preference right is exercised prior to April 29, 1909, on which date the lands will be subject to settlement and entry by any qualified person. The which date the lands will be subject to settleme ment and entry by any qualified person. The
lands are as follows: The NW4, of NB3,
the N4 of NB4, of NB4, of NB4, of NB4,
the N4 of NB4, of NB4, of SB4,
the N4 of NB4, of SB4, of NB4, of SB4,
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SB4, the W4 of NB4, of NB4, of NB4, of
MB5, of NB5, of NB5, and the W4 of NB4 of NB4, of
MB5 of NB5, Sec. 34, T. 2, S., R. 7, E., application of L. D. Elston, of 26 Pront St.,
Portland, Oregon. Fred Dennett, Commissioner of the General Land Office. Approved February 11, 1909, Prank Pierce
Pirst Assistant Secretary of the Interior.

## Hard Steel Wire

best material to put into fencing. Soft wire is cheaper and much less expensive to work, but it bags in the summer sun and every time a steer backs into it or a hog rubs on it he leaves his pho-

The Peer'ess tie or lock at the intersection of the line wire and cross bar holds the intersecting wires in firm grip and does not permit a slipping of either wire, up, down or to the side. The Peerless can be used on rolling lands as well as on prairies.

The price of 48 inch fence in jots of 100 rods is 42 cents a rod. This fence is ornamental and the most durable in the market. Nine bars made with top wire of No. 9-bottom No. 9-other wires No. 11 42c per rod.

### FRANK BUSCH

Oregon City,

HANDICAPPED This is the case with many Oregon

City people. W. M. Stone, a well-known resident Wm. Hettman, Henry Hettman.

Following is the report of Shubel school district for the month ending Too many Oregon City citizens are March 5, 1909: Number of pupils enbandicapped with a bad back. The rolled, 28; number of days taught, 20; ery making work a burden and stoop, those neither tardy nor absent are; Holcomb March 17, 1857 and resided in Clackamas county on the old donation homestead of the Holcombs three miles east of Oregon City. In reach the cause. To eliminate the Beeson, Gerald Babeock, Alvin and Wesley Stormer, Hurley Fellows, Ray-

Oregon

ROBERT GINTHER, Teacher.

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Nearly all diseases of the skin such

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THERE IS ONLY ONE GENUINE CARBOLINEUM, THAT IS THE AVENARIUS CARBOLINEUM. THERE IS A CHEAP IMITATION ON THE MARKET THAT IS BE-NG OFFERED AT FROM \$1.00 TO \$1.25 PER GALLON. THE GENUINE AVENARIUS CAR-BOLINEUM IN QUART CANS 50 CENTS, AND ONE GALLONS AT \$1.50 WILL DO ALL THAT IS CLAIMED FOR IT. INSIST ON THE GENUINE, TAKE NO OTHER. PUT UP IN LITHO-GRAPH CANS AND SOLD IN OREGON CITY.



