WILLIAM MITCHELL. ATTORNEY

ALLIANCE. · · · NEBRASKA

BURTON & WESTOVER Attorneys at Law LAND ATTORNEYS

Office First National Bank Bldg. ALLIANCE, NEB.

H. M. BULLOCK. Attorney at Law, ALLIANCE, NEB.

F. M. BROOME

LAND ATTORNEY Long experience as Receiver U.S. Land office a guarantee for prompt and efficient service Office in Opera House Block ALLIANCE, · · NEBRASKA

BRUCE WILCOX Lawyer and Land Attorney

Practitioner in civil courts since 1893 and Register U. S. Land Office from 1903 to 1907 Information by mail a specialty. OFFICE IN LAND OFFICE BUILDING NEBRASKA.

DR. H. H. BELLWOOD, Surgeon C. B. & Q. Ry. Office Over Holsten's Drug Store Day Phone 87 Night Phone 86

OBIE COPPERNOLL Res. Phone 20 F. J. PETERSEN Res. Phone 43 Drs. Coppernoll & Petersen

OSTEOPATHS Rooms 7, 8 and 9, Rumer Block Phone 43

GEO. J. HAND, PHYSICIAN AND SURGEON

Eye, Ear, Nose and Throat

DR. C. H. CHURCHILL PHYSICIAN AND SURGEON

(Successor to Dr. J. E. Moore) OFFICE IN FLETCHER BLOCK Office hours-11-12 a.m. 2-4 p.m. 7:30-9 p, m. Res. Phone, 8; Office Phone 62

H. A. COPSEY

Physician and Surgeon Office Phone 360 Res. Phone 342 Calls answered promptly day and night from offlice. Offlices:—Alliance National Bank Building over the Post Offlice.

J. P. HAZARD Surveyor and Engineer, ALLIANCE, NEBRASKA

Parties out of town should write, as 1 h of the time. Char ceed \$5.00 and expenses per day.

Dr. Oliver McEuen Physician and Surgeon HEMINGFORD, NEBR.

SPECIALTIES: Diseases of Women and Children and Genito Urinary Organs All calls answered promptly day or night

HARRY P. COURSEY Live Stock and

Farm Sales a Specialty

General Auctioneer

TERMS REASONABLE

Phone 64 ALLIANCE, NEBR

DR. D. E. TYLER DENTIST, OPERA HOUSE BLOCK, PHONE 167 Alliance, Nebraska

Geo.G. Gadsby Licensed Embalmer

Phone { Day 498 Night510

Tween Seasons

It's just at this season of the year that our Studio offers its best facilities for making yout portrait. The rush is over-or has not yet begun - consequently we have more time at our disposal - which means increased attention to your order

Alliance Art Studio 114 E. 4th Street



CO-OPERATING WITH FRUIT GROWERS; CARE OF MILK **MOVEMENT FOR BETTER ORCHARDS**

Department of Horticulture of State University Makes Proposi tion to Send Man as Demonstrator.

(By R. F. Howard, Department of Horticulture, University of Nebraska.)

movement for better orchard prac- for help the past season. tices. The State Society of Horticuli To illustrate how eager many growture at that time appointed a commit-ers are to do the proper thing by their tee to investigate conditions and to orchards, if they only knew what to recommend methods of procedure do, a single case is cited of how one whereby the growers who are willing man in Douglas county took advantage to give their fruit the care it needs of this proposition last season. He might receive state aid by applying for wrote to the university asking if some be well to call meetings in several dif- prune his orchard of 1,600 trees. The ferent counties for the purpose of find- man was sent immediately, and upon Ing out what methods the growers are going into the orchard found the work using and what their attitude was in had progressed to the extent of two

HE unusual amount of interest would first prone their trees under the exhibited by the fruit growers directions of the demonstrator. The of Nebraska at last winter's ses- limited number of men that could be sion of organized agriculture at sent from these departments made it Lincoln has resulted in a definite impossible to answer all the requests

regard to co-operating with the state. rows. This grower has one of the best



SPRAYING AT TAYLOR'S ORCHARD (LINCOLN).

The writer, together with a repre-twelve-year-old orchards in the state,

eral way in such publications.

pense to the growers being the demon- the state as a whole. not send its man to help mix and ap-grade fruit will be realized. ply the spray materials unless they

sentative of the state society, met though it had never been pruned. Has with the growers of Washington, had men armed with carpenter saws Douglas, Nemaha and Gage counties, taking off about one third of the The commercial growers of these branches, all from the lower portion counties have reached a stage when of the tree, leaving the dense top unthey no longer need to be told that touched. He admitted that his only perfect crops harvested from aban-knowledge of pruning was based upon doned orchards is a thing of the past a statement he had seen or heard in Nebraska. They were looking for somewhere that "about a third of the ways and means of successfully com- wood should be removed from trees batting the insect and fungus pests that had never been pruned," and that that have been gradually reducing the he supposed it didn't particularly yearly income from their orchards. | matter what portion came off. When The fact that many growers were the demonstrator suggested that he using methods wholly unsuited for was probably removing about the their conditions and that others were proper amount of wood, but that he not doing anything in the way of im- would have more properly shaped proving the quality of their fruit, on trees, more highly colored fruit and account of the lack of some definite could do a better job of spraying if he instructions, was apparent. Showers would distribute the pruning equally of such question as, "How can I con- all over the tree, instead of taking off trol the worms that get into my ap-only the lower limbs, he immediately ples?" "What is the right time to bought the proper kind of pruning spray and what does it cost?" "How tools and finished the job according should I mix and apply the materials?" to the above suggestions. This same and "What is the proper time to prune man two weeks later bought a gasofruit trees and how should it be done line power spraying outfit and all the for best results?" were thrown at the necessary spray materials for conspeakers of these meetings. Bulletins, trolling the insect and fungus disthey said, served a good place, but eases The demonstrator called at they did not satisfy all their needs, each of the first two sprayings and since each man bad local problems helped him to properly mix and apply that could only be covered in a gen- thes. spray materials. This man did not stop at merely pruning and spray-As a result of this interest, the de- ing his orchard. He bought the most partments of horticulture and agricul- up to-date extension orchard disc and tural extension of the State university cultivated his trees all summer. This made the following proposition to the grower has a crop of apples now on growers of the state: It was stated his trees almost entirely free from that where the interest in any com- insect and fungus blemishes that will munity was great enough among the probably realize him from \$5,000 to growers themselves, these depart \$6,000. This is only a single case of ments would send a man as a demon- what this kind of co-operation will do strator for one season, the only ex- for the growers, the university and

strator's local expenses. It was The enthusiasm and interest with pointed out to the growers that the which the growers have met this propbest results could not be expected osition makes it seem highly probable from spraying apples unless the trees that If this work is followed up for a were first properly pruned, and that few years, eastern Nebraska's real for this reason the university would worth as a place to grow fancy, high

EARLY SELECTION

of seed corn in Nebraska has been yielding seed and also insures the segiven official recognition through a lection of native seed, which is an proclamation issued by the governor, important factor in producing high setting aside Sept. 30 to Oct. 5 as yields. Tests have proven that Ne "Seed Corn Selection Week." The braska grown seed will produce an early selection of seed corn will mean average of 6.2 bushels more than seed a big saving to the state in general imported from Iowa and Illinois." and will obviate the necessity for sending for seed corn outside the for the selection and care of seed

"The question of seed corn is an important one," says Professor C. W. ment of the state farm. "There is little seed corn in the state, due to the lack of seed early this year. Nebrasfarmers were forced to send outside tional systems of hog feeding. of the state and, as a result, their have used Nebraska grown corn.

"With the early selection and proper wills not be compelled to pay funcprices for corn that is not so good at a s forages experimented with.

home grown varieties.

"Early field selection insures seed which will grow. Well matured corn OF SEED CORN can be picked early, dried in some convenient place, and then is in no convenient place, and then is in no langer of being frozen. Freezing will not hart well cared corn.

The early selection and proper care . Freely field selection insures high The braska grown seed will produce an

A bulletin, containing suggestions corn, compiled by university officials. will be furnished free of cost, on application to the bureau of publicity of Pugsley, head of the extension depart- the Commercial club of Omaha, or the Nebraska experiment station.

The rise in the price of corn in the ka was ransacked from one end of the last three or four years has been forstate to the other for seed. Then the tunate for hog raisers, if for no other supply was wholly inadequate. Many reason that it will result in more ra-

Experiments where eight kinds of stands are not as good as those who forage have been thoroughly tried out prove conclusively that park can be made more cheaply and with less laare Nebraska will have plenty of bor by the use of gree crops. Clover, teed corn next year and purchasers affalfa, rape, corn, rye grain, cowpeas, by beans and sorghum were the vari-

IN THE HOME

Recommendations and Suggestions of Professor Frandsen.

ELEVEN RULES FOR CONSUMERS

By J. H. Frandsen, Professor of Dairy Sanitary milk is milk from healthy cows, produced and handled under Never use rubber tube between bottle conditions in which contamination and nipple. from filth, bad odors and bacteria is reduced to a minimum. The production of clean and healthful milk is the most important subject with which the dairyman has to deal. Even from an economic standpoint the dairyman cannot afford to ignore the importance of producing a pure and healthful arit. This committee decided it would one could be sent to show him how to ticle, for we find milk produced under absolutely sanitary conditions selling



KATY GERBEN, OWNED BY UNI VERSITY OF NEBRASKA. (Official record-19,161.2 lbs. milk; 776 lbs. butter.)

price. Needless to say, for the production of sanitary milk the dairyman must have healthy cows, sanitary barns, clean bedding and dust-free air, clean barn yard, clean cows, clean and healthy milkers, clean milk vessels, and pure water. He must feed clean, wholesome feeds, must have a sanitary milk room and abundant facilities for cooling the milk and cream.

But no matter how good the condition of the product when delivered, if out some of the plants. it is carelessly handled in the home, the milk or cream may quickly becare of milk and cream in the home.

collect bacteria and other impurities whenever they are exposed to the air,



VIEW SHOWING WHITE SUITS WORN BY MILKERS, UNIVER-SITY OF NEBRASKA.

or placed in utensils that are not scrupulously clean. If this fact is generally understood it can easily be seen why it is so objectionable to store milk uncovered in refrigerators or cellars, where it comes in contact with vegetables or other food products possessing strong odors. As milk is a perfect food for human beings, so it is also a perfect medium for the development of certain bacteria which may gain access to it from the dust-laden air, flies and unclean utensils. Some of these bacteria may be the germ of contagious disorders; others may cause digestive disorders, especially in infants and young children whose diet is largely milk.

Experiments have shown us that many germs which may gain access to the milk develop very rapidly while the milk remains warm. By this, we mean a temperature above 50 deg. F. For instance, milk kept at 45 deg. F. may be kept perfectly sweet for twenty-four hours, while if kept at a temperature of 70 deg. F. it may sour in



WASHING AND STERILIZING THE BOTTLES, UNIVERSITY OF NE-BRASKA.

less than six hours. This should emphasize the importance of low temperatures in the preservation of milk and

The following brief rules should enable the consumer to properly care for the milk so as to have an article that is at all times sweet and whole-

1-If possible insist on getting milk th a bottle or other originally sealed package. Milk dipped out of a can in the street likely means that large numbers of bacteria from the air may have fallen into it.

2-Never allow the milk to stand in a warm place for any length of time, but place as 200n as possible in a refrigerator, feebox or other cool, clean

3-Keep the milk or cream in the original package until needed for use

(-Carefully wipe the mouth of the bottle before pouring milk or cream

5-Do not pour back into the bottle any milk which has been exposed to

6-Keep the bottle covered with cap or inverted tumbler as long as any In fact in the two seasons when spring milk remains in it.

7-Do not expose uncovered milk in refrigerator containing strong smelling foods.

8-Wash milk bottles as soon as empty and do not use milk utensils for any other purpose. 10-Special precautions should be

faken with the baby's milk bottles. They should be rinsed in lukewarm water, washed in hot water containing a little soda and then scalded. In se-Husbandry, University of Nebraska. lecting a feeding bottle choose one with wide mouth and no corners.

11-In case of contagious diseases in the house, such as typhold, scarlet fever or diphtheria, return no milk bottles to the milkman without the rermission of the health officers.

ROLLING WINTER WHEAT

By C. W. Pugsley. Superintendent Agricultural Extension, College of Arriculture, Lincoln, Neb.

Reports from farmers and grain men indicate that the wheat fields look exceptionally good, but that cracks or checks are appearing in large num-

Wherever these cracks occur, the roots of the wheat plants are expose I to the air and are dried out. In many instances they break off and consequently a portion of the root is killed. Examination has shown that in many instances plants die later because the roots have been so greatly damaged for practically double the ordinary by the cracking or checking of the ground.

In addition to the injury to the roots, the checking exposes a larger surface of soil to the action of the wind, thus drying out the ground more rapidly. Every bit of moisture should be saved for the coming wheat crop. Harrowing the winter wheat would probably fill up to some extent the cracks and would create a slight mulch over the field, but it would tear

In press bulletin No. 30, written by Professor E. G. Montgomery of the come unfit for food. The fact that Nebraska experiment station, there vast quantities of good milk have are given the results of a four-year been spoiled in the home by improper test of harrowing and rolling winter treatment prompts the writer to em- wheat, both broad casted and drilled. phasize some of the points regarding The average of the results'shows that no increase in yield could be secured Some customers have little knowl- from harrowing, so this practice is edge of milk and consequently do not | not to be recommended if a better one know how to properly care for it. Milk can be found. In commenting on the and cream readily absorb odors and decreased vield, Professor Montgomery has the f-llowing to save

"It should not be assumed that the cultivation (harrowing) of wheat would not be of value in drier regions. Cultivation is for the purpose of conserving soil moisture, but in the years in which the data were taken on wheat, there was no lack of moisture, rainfall was below normal (1905 and 1906), there was some increase from cultivation."

On the other hand rolling winter wheat resulted favorably every year, the highest increase in any single year being seven and six-tenths bushels per acre, and the average for the four years was five and one-tenth bushels increase per acre per year. In speaking of the effect of rolling winter wheat, Professor Montgomery has the following to say:

"Rolling winter wheat in the spring has not failed in any of the four years to give an increased yield, the average increase being five and one-tenth bushels per acre. The rolling was given early in the spring, soon after the frost was out, and about the time growth started. Harrowing after rolling was not as good as rolling alone, probably due to loosening up the plants again after the roller has pressed them firmly in the soil.

"Early spring rolling of winter wheat, pressing the earth as it does firmly about the plant roots, produces good results When frost comes out in the spring it is apt to leave the soil filled with small cracks or checks, especially around the plant. If these checks are examined closely it will be seen that a large number of roots are thus exposed, and if the weather continues dry they are killed or at least injured. We have taken up plants in the spring where half of the roots were exposed

"If the sell is not wet at the time of rolling-and it should never be rolled when wet-rolling aids in no small degree to form a surface mulch. It does his rather than compact the surface."

This bulletin can be secored free of cost by writing to the director of the Agricultural Experiment station. Lincoln, Neb. Ask for Press Bulletin No. 30, on "Rolling Winter Wheat."



OUR TIME, knowledge and experience in the printing business.

When you are in need of something in this line DON'T FORGET THIS

A Distinction With a Difference

OU may not always get what you pay for.
It takes a good judge of values to do that, but if there is one sure rule in business it is-you pay for all you get. You may not be able to see the difference between engines of similar appearance at different prices, but if you buy from a reputable firm you may be sure the difference in quality is there.

I H C Gil and Gasoline Engines

cost more than some others because they are more carefully made, and more thoroughly tested. Skillful designing, better material, better workmanship, more careful assembling, and more thorough testing, tell in the long run. Given equal care an I H C engine costs less per year of service than any other engine you can buy. If an I H C engine is given all the work it will do, pumping, sawing wood, running the grindstone, feed grinder, hay press, silage cutter, repair shop machines, cream separator, churn, washing machine, etc., etc., it will pay for itself in a very short time in money and labor saved.

IHC engines are made in every stylehorizontal, vertical, air and water-cooled, stationary, portable and mounted on skids, to operate on gas, gasoline, kerosene, naphtha, distillate or alcohol, in sizes from 1 to 50 H. P. Kerosene-gasoline tractors, 12, 15, 20, 25 and 45-H P.

The I H C local dealer will give you catalogues and full information, or write

International Harvester Company of America

Crawford

The purpose of this Bureau is to furnish, free of charge to all, the best information obtainable on better farming. If you have any worthy questions concerning soils, crops, land drainage, irrigation, fertilizers, etc., make your inquiries specific and send them to I H C Service Bureau, Harvester Building, Chicago, USA

