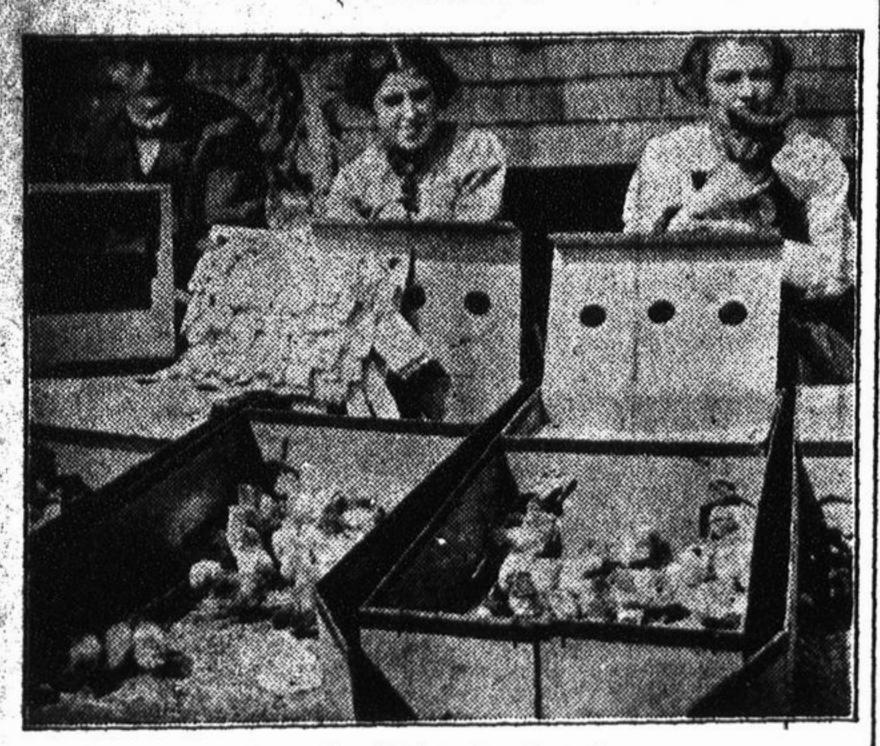
TCHING AND CARE OF THE LITTLE CHICKS SO AS TO AVOID HEAVY LOSS



"Paper Hens" That Are Kept Busy.

Eggs should always be handled very

carefully if they are to be used for

hatching. The shell is often slightly

cracked by rough treatment and fails

to hatch for this reason though the

injury has never been noticed. It is

well to place a blanket on a table and

lay the eggs on it when it is neces-

Space will not be taken here to

speak of the management of the eggs

in the incubator. Careful and explicit

directions are sent with every ma-

chine and they should be closely fol

lowed. The maker of the incubator

is as interested as you can be in the

successful operating of the machine

and has experimented with it until

he knows what conditions bring the

Assume that your eggs were placed

in the incubator at 9:00 a. m. Monday,

March 4. On the morning of Sunday,

March 24, possibly on Saturday eve-

ning before this day, the eggs will be-

gin to pip and a number of chicks

will be out by Sunday evening. If

there is a nursery tray to your incu-

bator, especially a deep, roomy one,

t is best to leave them in the machine

till Tuesday evening or Wednesday

morning. If there is no comfortable

place in the incubator remove all that

are out on Sunday evening and put

them in a lined basket or cracker box.

On Monday morning take out all of

the others that are hatched, clean out

the incubator, wash or spray thor-

oughly the trays and egg chambers

with a solution of zenoleum or similar

disinfectant, load up with another lot

while ideal in many ways, is prohibit-

ed by its cost. Cotton and linen are

easily washed, inexpensive, non-irri-

tating and in many respects make

ideal underwear. A mixture of cot-

ton and wool may be better for the

individual who needs warmer gar-

able to absorb moisture and allow slow

same texture which holds air absorbs

moisture well, and good, ventilation

provides for evaporation. Wool ab-

sorbs more moisture without seeming

wet than cotton and evaporates it

slowly, but it also absorbs it slowly.

Thorough cleanliness sids in absorp-

tion; a garment clogged with bodily

wastes does not perform its functions

any more than a skin clogged with

bodily wastes performs those functions

The body must not be dragged down

by heavy clothing. The old custom of

many underskirts and numberless

swathings about the waist was ex-

tremely bad. It is true that the pendu-

lum has swung to the other extreme

and fashion does not always allow

enough for real protection. The union

suit is ideal in that it gives even cov-

ering over the extremities as well as

the trunk. Tights and close fitting un-

derskirts give further protection. The

short skirt lessens the weight and is

train. The heavy garment is not neces-

sarily the warm one, and several lay-

The body should have free move-

ment, which of course means that

it. Tight sleeves, tight waist bands,

tight collars are all bad, as they inter-

fere with breathing, circulation and

proper exercises. Badly shaped shoes

throw the foot out of its natural form.

proper balance and undoubtedly cause

ing to a certain extent from the

standpoint of protection as well as

from the artistic standpoint. Light

colors are cooler than dark ones in

that they do not absorb the rays of

the sun so readily. In under garments

there is little distinction. The virtue

of the red flannel shirt, if it had any,

was perhaps due to the fact that the

Feeding Lambs.

The ewes that are suckling lambe

The young lamb will grow rapidly

give him a chance. There is profi

beep quarters, at lambing tim

dye was irritating to the skin.

bould be fed very liberally.

demanded of it.

of fresh eggs and repeat.

best results. Take his advice.

sary to move them about.

By D. O. BARTO, secciate in Poultry, University of Hilinois.

The place where the heaviest losses occur in poultry raising is almost at the beginning of the work-in the hatching and care of the little chicks. If these matters are neglected or carelessly attended to, even for a day or two, no amount of attention later can repair the loss.

The life of the chicks begins in the egg and many things may, and frequently do, happen to the egg without breaking it which entirely destroy the life of the germ or greatly weaken its vitality. All of these things have a direct bearing and important influence on the success of rearing chicks, yet they are frequently overlooked.

The sooner eggs are placed under the brooding hen or in the incubator after they are laid, the better the chances of getting vigorous chicks from them. An egg is injured for hatching or for eating if it is allowed to lie in contact with filth for any length of time. Keep the nests clean and fresh and do not let the hens run where their feet may become sticky and soiled before entering the nest.

While keeping the eggs before they are set they should be placed where the temperature is but little above freezing. Eggs are rarely injured for hatching by chilling, unless they are frozen so that they burst the shell, but when they are exposed for some days to a temperature no lower than 75 degrees the germ frequently begins to develop and is thus greatly weakened for hatching.

REQUIREMENTS OF HYGIENIC DRESS

By CHARLOTTE M. GIBBS, Household Science Department, University of Illinois.

The purposes of clothing among so-First in order of importance should be to protect, then to decorate, and to express modesty. Pashion, a modern feature, is an important determinant of dress, but may be considered under decoration. In the rush for fashion, show and ornament people often forget that the real need of clothing is, after all, for protection. The result is that clothing often harms the body rather than aids in performing its natural functions.

In the great movement for the improvement of public health an attempt is being made to educate people to care for their bodies, and to prevent disease. Personal hygiene is strong-17 emphasized, and proper dress is a part of personal hygiene.

If clothing is to be thoroughly hygienie it must help maintain a normat body temperature, protect from extreme heat or cold; it must care for the excretions of the skin, and in order to do this it must provide proper wentilation, and at least that which is to come next the skin must be capable of frequent cleaning. Certain parts d clothing, as the shoes, protect from external injury. To serve these vartneeds, more than one layer of lothing is worn, and the functions of the outer and inner layers are quite different. In order to maintain a normal body temperature in cold weather e clothing next the skin should be of sch a nature that it does not conduct the bodily heat away rapidly, while the outside garment must protect from Air is an excellent nonconducr of heat, therefore a material which ds air in its meshes, or two thin of material which hold air beon them, are warm. There must, ver, be still air, so that the outation of this principle. When orn as an outside wrap on a windy not very warm, but worn knit of wool, cotton, linen ord meshes for air, Wool and over conductors than linen. therefore warmer, but

USEFUL SUBSTITUTES FOR THE USUAL HAY CROPS ON ILLINOIS FARMS



Soy Beans Grown for Hay.

By ARTHUR LUMBRICK, Agricultural Experiment Station, University of Illinois.

Owing to the fact that clover failed in so many parts of the state during the past season there will be a marked shortage in the hay crop for this year. To supply this need, it will be necessary for the farmers to use some quick growing crop that will msture within a few weeks from the time of sowing. For this purpose there is nothing better than a mixture of oats and Canada field peas. It is suggested that the oats be drilled in at the rate of a bushel per acre and the Canada field peas be drilled in, driving the other way across the field at the rate of about three pecks to a bushel

The growing season of these two plants is about the same and one will be able to take off a hay crop by the middle or last of June. If it is desired to have green forage to feed either young stock or dairy cattle several different seedings may be made so as to provide green stuff for a longer period. When there is a shortage of pasture grass, it is often desirable to have some crops to be used in this manner. Only enough of the green hay should be cut to feed for one day. If one chooses, he may let the oats and pea mixture grow until about the time when the oats are in the milk stage and the crop can then be cut

SOME NEW IDEALS OF CIVILIZATION

By MRS, OLAF N. GULDLIN. Chairman Home Economics, General Federation of Women's Clubs.

It is related that one of the early astronomers kept cursing and wishing that he might have been present in the creative days to have offered God a few suggestions. But when the true understood, the astronomer kept praising God and exclaiming: "Oh, God, how great is thy creation! How infinite is thy majesty!"

When we look everywhere, read statistics on sin, sickness and sorrow. we might feel like the early astronomer. But as we realize that our concept of civilization is not the real concept, we see that if we are to have a better civilization we must raise our viewpoints to a higher standard what constitutes real civilization. Civilization in a democracy must pass through the individual. We are an integral part. It will be reflected in our institutions, municipalities, homes, if we have not reached the best interpretation of what constitutes the best



Mrs. Olaf N. Guldlin.

civilization, we must clarify our own minds and see civilization in its large aspect. To be explicit, it is claimed that the average life of the white slave victim is five years. It is also said that 60,000 die annually, that 60,000 new recruits must be supplied from the ranks of womankind. We can legislate, but we cannot cure it until mankind perceives that there is a higher standard upon which to base our estimate of life. These standards and cured for hay in the ordinary man-

As the oat and pes hay can be rethere is still time to grow another crop of hay on this land. As soon as the hay is taken up the land should be disked thoroughly and a good seed bed prepared. German millet makes a very good crop to be seeded at this time of year as it does well during the hot weather, and makes quite a heavy growth. When seeded alone German millet should be sown at the rate of a peck to the acre.

Perhaps a better crop than millet if one can secure the seed is a crop of soy beans. One should secure an early variety of beans such as the Ito San or Medium Yellow. These beans should be drilled in with an ordinary grain drill at the rate of four or five pecks per acre. They will make sufficient growth by the time of early frost to produce a considerable quantity of nutritious hay. Cow peas may be used instead of the soy beans, but are not so desirable because they have a more trailing habit and are more difficult to cure. The soy beans when used for hay are handled much the same as any other kind of hay. Soy bean hay has about the same feeding value as good clover hay, being especially rich in protein. One will secure better results if he will inoculate the land with some soy bean bacteria before sowing

With our present day enlightenment we are beginning to realize these institutions can be greatly reduced. That is the reason I am talking domestic science, because I believe it holds the key to unlock many phases of these conditions. In the first place, if we try to bring on the millennium it will take the united work of all good men and women. With housework disorganized as it is at present, it takes about all the strength, time and money to manage the homes. Unless we can simplify the labor to give us more time for study and growth. we can hardly be the means through which a better civilization can pass.

Our next step should be to introduce industrial training, domestic science and more practical work into our public school system. Our schools prepare children for colleges, but are not adapted to the needs of the great mass of school children. The most modern cities are studying the industrial needs of the community and utilizing school plants to fit children for their life work. The average child is interested in these concrete methods. They are adapted to child life. This does not mean doing away with the cultural studies, but it succeeds in keeping the children in school much longer and fitting them for their life

Germany, realizing that the people must be trained to do expert work, is away shead of us in industrial education. All children at seventeen years of age are in some form of school in Germany; 85 per cent, are in school at twenty years of age. In the United States 18 per cent. are in school at twenty years of age. What is the result of all this? Germany in forty years has grown from a poor nation to the second richest in the world. The German wealth is the prodnct of their industries Germany's amount of foreign trade is almost twice ours. Since 1882 wages in most of the German industries have been doubled. The total income of all the people has increased from \$2,800,000,-000 in 1896 to \$4,120,000,000 in 1907, doubling in eleven years. We are selfing the Germans raw material and buying finished products from them. Interesting as these statistics are. they do not tell the best part of the story. Germany is adding skill, efficiency, making trained experts out of her people. She is organizing continuation schools, also schools that run in conjunction with the work of the industries to give these opportunities to the people.

Does this mean nothing to a nation? Does it not add moral, spiritual power, when men and women become masters over their environment and realize the meaning and joy in intelligent jabor? Would those same persons occupied mentally, physically, interested in progress and growth, not secure h greater development under these im-proved conditions? Many of these things we have yet to work out is

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