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1916

THE
POULTRYMAN'S
GUIDE

76-27331



ADMINISTRATION BUILDING

Missouri State Poultry Experiment Station
MOUNTAIN GROVE, MISSOURI

1916

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THE
POULTRYMAN'S GUIDE

A BOOK CONTAINING HUNDREDS OF PRACTICAL IDEAS
AND VALUABLE INFORMATION FOR THE BEGINNER,
THE FARMER, THE FANCIER OR THE EXPERT

Yearbook

CONTAINING LIST OF MEMBERS OF THE STATE
POULTRY ASSOCIATION, WITH ADDRESSES
AND VARIETIES OF POULTRY RAISED



ANNUAL REPORT OF THE STATE POULTRY BOARD
JANUARY FIRST, 1916

Compiled and Edited by

C. T. PATTERSON

DIRECTOR OF THE
MISSOURI STATE POULTRY EXPERIMENT STATION
MOUNTAIN GROVE, MISSOURI

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STATEMENT, 1915.

Fund.	Appropriated.	Requisitioned.	Balance.
Maintenance expenses.....	\$11,500.00	\$5,605.24	\$5,894.76
Equipment.....	4,100.00	1,866.40	2,233.60
Permanent improvements, walks, etc.....	10,550.00	4,538.01	6,011.99
Education.....	23,550.00	*5,915.29	17,634.71
Repairs, etc.....	950.00	899.11	50.89
Expense, Board.....	800.00	283.59	516.41
Salaries.....	28,160.00	12,691.60	15,468.40
Freight, etc.....	1,500.00	539.26	960.74
Total.....	\$81,110.00	\$32,338.50	\$48,771.50

*Hugh Stephens' account, \$2,863.23

INTENT AND PURPOSE OF THE STATE POULTRY BOARD AND THE STATE POULTRY EXPERIMENT STATION.

Section 664, article V, Revised Statutes of Missouri. *Duties of the State Poultry Board.*—It shall be the duty of the State Board of Poultry to promote and encourage the poultry industry in the State of Missouri in all its branches; to organize the poultry raisers of the State, for the purpose of affording a systematic means of gathering useful information for the use of the board, and to publish the same for the benefit of the farmers and poultry raisers of the State of Missouri. It shall be their duty to gather poultry statistics and information as to the best and most profitable means of raising and handling poultry and publish the same in bulletins as frequently as may be deemed expedient; hold poultry institutes in different sections of the State, for the purpose of giving instructions in the breeding and raising of poultry; provide for and manage one annual State poultry exhibit at such time and place as may be determined by the board; provide lectures for promoting and encouraging the poultry interests of the State. They shall have general management and supervision of such organizations of poultry breeders as may be formed under their authority, and power to make such needful rules and regulations as will best promote the objects of their organization; and shall make an annual report to the General Assembly of the State, embracing an abstract of the work accomplished by the board for the next preceding year, and accompanied by such recommendations, including especially such a system of public instruction on this subject as may be deemed useful.

Section 84d, Session Acts of Missouri, 1911. *Objects and Purposes of the State Poultry Experiment Station.*—In order to determine and demonstrate the importance of improved and better methods of feeding, housing, incubation, brooding, breeding and rearing of poultry, and to bring the results of scientific research of State and Federal Experiment Stations within the reach of all farmers and poultry raisers of Missouri, the State Poultry Board shall establish, conduct and maintain

a State Poultry Experiment Station. The objects and purposes of said Experiment Station shall be to experiment with the different kinds of houses, incubators, brooders and appliances, and the different varieties of poultry, to determine which are best adapted to the farmers and poultry raisers of Missouri in the different sections thereof, to make a study of different diseases to which poultry is subject and the remedies to prevent such diseases, and to make all other experiments and tests and do any and all other things which shall tend to the betterment of the poultry interests of the State.

IMPORTANCE OF THE POULTRY INDUSTRY.

Not many years ago the poultry business was considered a small business and poultry on the farm was considered a necessary evil. Therefore, little or no attention was given to the farm flock. Today things are different; the methods of farming are changing from the extensive to the intensive, and with this change are developed more scientific methods and a more accurate system of keeping records. These records show that there is a greater per cent of profit from the amount of money invested in poultry than any other department of the farm. This has caused more interest to be taken in poultry so that on many farms the flocks are uniform in size, shape and color, all being pure bred. It is from this type of flock that the greatest returns are secured.

The surplus products of poultry and eggs in the State of Missouri now amount to more than \$52,000,000 each year, and as there are fifty-two weeks in a year, it is easy to remember that the surplus products amount to more than a million dollars each week. The money is distributed by the best system of distributing money there is in existence, for it goes to keep up the home by buying groceries, feed, clothing, books, shoes, etc.

In order to solve the many problems concerning the poultry business, many experiments, tests and observations are necessary. If it were necessary for each poultry raiser to try out all these experiments, the work would be very expensive to the entire commonwealth. Instead of each poultryman trying these experiments, the State has established a Poultry Experiment Station at Mountain Grove, Mo., for the purpose of conducting experiments in all branches of the poultry industry,

the results of which are published in bulletin form and distributed to the poultry raisers of the State. This is economy, for there are perhaps five thousand poultry raisers who would like to know the results of some one experiment. If this is conducted by each individual it would mean five thousand separate experiments, which would be very expensive in some cases, and those conducting the same have other duties, making the results more or less uncertain, while if it is conducted at the Experiment Station, it is conducted by men who devote their entire time to the work, which makes the results more accurate.

Every poultry breeder should feel an interest in the Experiment Station. If you have any experiment or test that you want investigated or tried out, write us a full description of this experiment, send it to the Experiment Station, and the officials of the Station will be glad to conduct the experiment and report the results. A list of experiments is kept on file and the ones in greatest demand and considered of most practical value are tried first, all being tried in season as near as possible. For example, incubation and brooding experiments are tried out in the spring, moulting experiments in the fall, etc. You should write your questions at once. The officials may not be able to answer the question at once, but a question which has not been answered is of value to the station, for the work of the Experiment Station is to find out the things we do not know.

BREEDING.

Much has been said about Mendel's Law and the principles of breeding and how to govern the inherited characteristics, but after all, we can only say there is much yet to learn concerning breeding.

Although the writer is willing to give his views concerning line breeding, inbreeding and crossbreeding, yet much of it is only theory.

The first thing we should notice in the study of breeding is the methods of reproduction. This can be done by comparing plants and animals.

There are two methods of propagating the peach. One is by budding, and the other is from the seed. We will use these two to illustrate the methods of propagating the fowl. Suppose we have an Elberta peach tree standing by the side of a Heath Cling peach tree. If we want another tree

the same as the Elberta, we can take a bud from the tree and place it in the bark of a small peach tree and let this bud grow and make a new tree which will be the same variety as the parent tree. In this way an especially fine specimen, which may be the best one from a million trees, can be reproduced. On the other hand, if the seed is planted, the young tree is apt to be a mixture of the two trees because of cross-pollenization, and because of the mixture, the offspring is apt to revert back to its original ancestors and will be unlike either parent, therefore it is called a seedling.

Line breeding with poultry can be compared with the budding of the peach tree, as it is the best method known to produce offspring like the parent. Suppose we have an unusually fine cockerel and we want to produce others like him, we mate him with as good hens as we can find. The offspring will be half and half of the male and female blood. The next year this original male is mated to the pullets, and the offspring from this mating will be three-fourths of the original male's blood and one-fourth of the original female's blood. The females from this mating are mated back to the original male, and the offspring will be seven-eighths of the original male's blood. Therefore, the cockerels from this mating will be more nearly like the original male. The line can be carried out with the females the same as described with the male. This method corresponds, in results, more nearly to the budding of peach trees than any, as it is impossible to cut off a toe or feather of a bird and get it to produce a new bird like the bud produces the tree.

Inbreeding is the same as line breeding except it is done in an indefinite, haphazard manner with nothing definite in mind.

Inbreeding is not a good method and should not be practiced at any time. Line breeding should be practiced only when the parent stock possess some superior characteristics.

Crossbreeding is the crossing of breeds or varieties, and the crossing of strains is sometimes classed as crossbreeding. This may be compared to the crossing of the peach trees. The offspring is uncertain. Almost all varieties have been made out of other varieties, and the birds continue the variety characteristics because the characteristics predominate. The other characteristics are lurking in the background and will show themselves when given an opportunity. To illustrate, if a White

Plymouth Rock is mated with a White Wyandotte, colored feathers appear in the plumage of the offspring even though both parents are white.

Crossing strains is a reasonably good practice, but crossing varieties is a bad practice. By crossing strains we maintain vigor while in line breeding this point must be guarded, and in crossing breeds and varieties we lose the uniformity of size, shape and color. By losing the uniformity of size and shape, it makes it impossible to feed and care for the flock in such a way as to get a maximum return in eggs, for we will over- or under-feed some of the birds. The large egg yields are made by uniform flocks.

SELECTION OF EGGS.

The size and shape of the eggs used for incubation should be carefully considered. An egg should be slightly oval, tapering from one end to the other.

The egg should be one and one-half times as long as it is thick, and should be free from wrinkles, ridges, or weak spots.

The old idea that the long eggs hatch cockerels and the round eggs hatch pullets is incorrect, for hens lay uniformly the same shaped eggs which hatch approximately an equal number of both cockerels and pullets.

The shape of an egg is transmitted the same as many other characteristics. Therefore, we should select only the kind of eggs we want to produce, *good*, healthy eggs from *good*, prolific hens.

INCUBATION.

Incubation is the process of developing young within an egg. The term is here used relative to the developing of a chick in an egg.

In general, we speak of incubation as being natural or artificial. Natural incubation is where the hen sits on the eggs, keeping them warm till the chick develops inside the egg. Artificial incubation is the use of a machine called an incubator which supplies heat and other conditions which cause the chick to develop.

There are some advantages and disadvantages of each method. A hen will look after her own nest if properly set, so she requires less attention than the incubator, but she broods

only when she is so disposed, while an incubator can be made to run according to the wishes of the owner. Other points might be mentioned, but perhaps the greatest points of advantage with incubators are that a large number of eggs can be incubated at one time and the chicks can be hatched earlier than with hens.

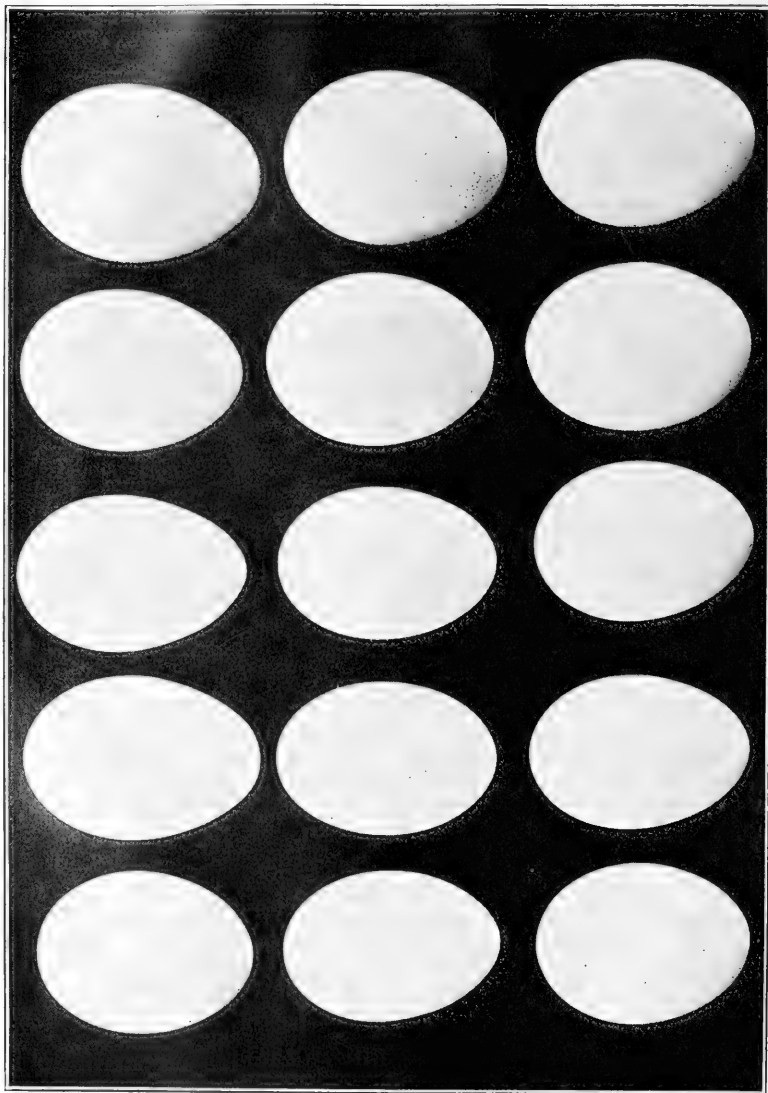


Fig. 2. Fifteen eggs reasonably uniform and good for incubation.

Space will not permit of a lengthy discussion of incubation. Therefore, the more important points are herein considered.

An egg in volume is principally three parts: The yolk, white and shell, but the fourth part, the germ, is very important from the standpoint of incubation. The germ is located in the germinal disc, which is a little white spot on the top side of the yolk. The germ is microscopic and cannot be seen with the unaided eye. The little white spot is the germinal disc and is found in infertile eggs the same as fertile eggs. The germinal disc is the lightest side of the yolk, which will therefore permit the disc to be on top of the yolk regardless of how the egg is turned. This is a wise provision of nature so that the developing germ will be on the top side of the yolk so it can receive heat from the hen which is above the eggs.



Fig. 3. A mammoth incubator at the Missouri State Poultry Experiment Station holding 5,400 eggs.

The yolk of an egg is made principally of fats. Therefore, it is lighter than the white and will rise to the top of the egg if allowed to remain in one position any great length of time. In order to balance this the hen turns the eggs, which will permit the yolks to rise through the albumen again. It is thought also that the turning of the egg stimulates the embryo to action, which promotes its development, thereby making stronger chicks.

The yolk serves as a location for the germ and the embryo during development; also serves as food for the baby chick for one or two days after it hatches, only a small per cent being used while in the shell.

The white or albumen is used in making the chick, while it is in the shell.

The shell protects the contents of the egg during incubation.

During proper incubation a small amount of the albumen evaporates, which permits an air cell to form in the large end of the egg between the two membranes of the soft shell. This should contain a little air, which is the first air the chick breathes. If this evaporation is insufficient, the chick will appear very wet, and in some cases the chick seems to strangle and die in the shell. Upon examination, there seems to be some unused albumen inside the shell. The other extreme is where too much of the albumen has evaporated so there is not enough material in the egg to make a chick big enough and strong enough to get out.

TEMPERATURE.

The temperature of a hen is $106\frac{1}{2}$, but owing to the loss of heat in transmitting it to the eggs the temperature of the eggs should be about 102 for the first week, $102\frac{1}{2}$ for the second week and 103 the third week. If the temperature gets too high, it has a tendency to thicken the yolk so it cannot pass through the little duct into the intestines, and as a result, the chick droops around, and on about the fourth or fifth day it apparently sleeps itself to death, there being no visible cause. If the temperature runs high, the chick hatches before the twenty-first day. If it runs low, it hatches at from twenty-two to twenty-three days. Twenty-one days is best.

MOISTURE.

The amount of evaporation depends upon the amount of moisture there is in the air. If the air is full of moisture it cannot take any from the egg, but if it is dry it can take moisture out of the egg. If the air is taking the moisture out too fast, it is stopped by feeding the air in some other way such as placing a pan of water, some wet sand or a wet cloth in the incubator, or sprinkling the eggs or floor under the incubator.

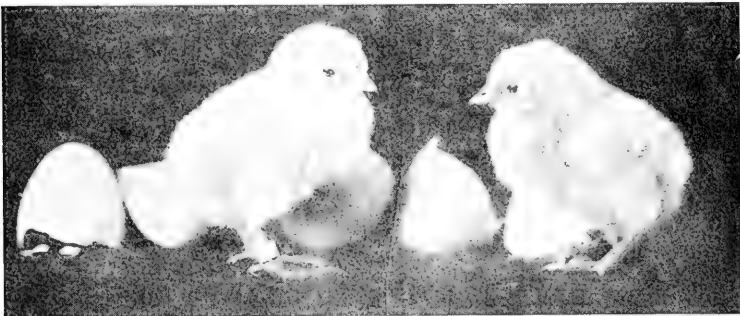
Moisture is added to control the size of the air cell. Moisture is not likely to be needed during the early wet season as much as during the later dry season unless the room temperature is 70 degrees or more and the air is dry.

Faint pipping sounds can be heard before the chick breaks the shell. This is the chick's effort to breathe, as only a few efforts are made to break the shell. The shell is broken by means of a small clipper on the upper side of the beak. The chick turns as it breaks the shell so that the shell is broken entirely around just inside the air cell, thus enabling the chick to get out.

Just before the chick breaks the shell it draws the yolk into its abdomen. This yolk serves the chick as food for some time after it hatches. Usually from five to seven days is the period before this yolk is absorbed. It can be seen readily that light feeding should be done at the start.

KIND OF AN INCUBATOR.

The question is often asked, "What is the best incubator?" This question can not be answered unless other things are considered, for it has been found that where a number of machines are run under the same conditions they give similar results. This leads to the conclusion that there is as much difference in the person running different machines and in the surroundings as there is in the machines themselves. Therefore, consider the conditions and operator as much as the machines.



Vitality all important

BROODING.

It is one thing to hatch chickens and another thing to raise them. A high per cent hatch indicates good vitality and therefore a small per cent loss unless some serious error in management occurs. A low per cent hatch usually indicates low vitality, which usually results in a high per cent loss.

Natural brooding is with the hen. The old method of permitting the hen and her brood to run at large with the entire flock is not usually satisfactory. Therefore, a brooding coop has proven most satisfactory. The hen is placed in the coop where she can get a little freedom and exercise, and at one end of the coop there is a hover where she can care for her brood at night or during a storm. This coop can be placed in any of the out-of-the-way places in the corner of the yard or garden. The little chicks do no harm to the garden yet get some freedom.

Artificial brooding is caring for the brood by means of hovers or brooders. There are about as many different makes of brooders as there are of incubators.

The brooder should have plenty of room and air, yet maintain a temperature of from 90 to 100 degrees F., lowering the temperature as the chicks develop.

Much of the impurities of a chick's system is carried out through the breath. If the air becomes filled or loaded it cannot carry out any more impurities; therefore, a great strain is placed on the kidneys. This has a tendency to weaken the bird to such an extent that diseases can take hold. Therefore plenty of fresh air is necessary.

The colony brooder stove is giving good satisfaction in many places. The room in which this stove is placed is entirely empty except for the stove, which is especially designed for brooding young chicks. The stove is placed in the center of the room and the chicks form a circle about it. If the temperature gets too high they move back and form a larger circle, and as the temperature lowers they move closer to the stove.

The advantage of the colony stove is that a large number of chicks can be brooded at small cost, and the labor is reduced to a minimum.

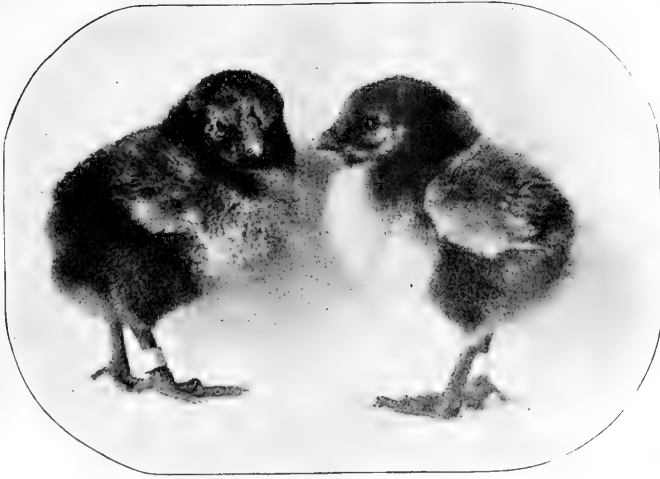


Fig. 5. Chicks well hatched are half raised.

CHICK FEEDING.

Much loss occurs yearly among little chicks on account of improper feeding, i. e.:

- (1) Overfeeding first week. Feed sparingly.
- (2) Lack of proper feeds at the start. Rolled oats are good.
- (3) Impure water. Use clean water with charcoal and grit.
- (4) Over-moist mash. Feed it only crumbly moist after five days.
- (5) Lack of exercise. Allow them to carry an appetite.

For further information concerning baby chicks see Baby Chick bulletin.

FEEDING CHICKENS OF ALL AGES.

Many methods of feeding are successful. The following rations have given good results, although other rations are just as good:

FIRST DAY.

Yolk in body supplies food. *Do not feed.*

FIRST WEEK.

Boiled egg cut fine, bread crumbs and oat meal, equal parts. Feed in form of mash on clean board all they will eat in 20 minutes five times per day. Give sour milk each forenoon and water in the afternoon. Keep fine grit or sand before them.

ONE TO FIVE WEEKS.

Equal parts wheat bran, shorts, oat meal and corn meal.

Use as mash in hopper and give good grade of commercial chick feed in litter.

Two pounds fine charcoal and one-half pound fine salt should be added to each hundred pounds mash.

Sour milk or water should be before chicks at all times.

FIVE WEEKS TO MATURITY.

- 1 part ground oats
- 1 " shorts
- 1 " wheat bran
- 1 " corn meal
- $\frac{1}{2}$ " beef scraps
- $\frac{1}{4}$ " bone meal

Use this as mash in hopper, and give equal parts cracked corn and wheat in litter, all they will clean up in thirty minutes, twice each day. Fresh water and grit should be before them at all times. Free range should be provided.

FATTENING RATION.

- 2 parts corn meal
- 1 " shorts
- 1 " wheat bran

Moisten with sour milk. Give cracked corn as grain, all they will eat. Clear water and grit should be provided at all times.

BALANCED EGG RATION.

	Yolks.	Whites.	
100 lbs. corn	255	134	Two lbs. charcoal and $\frac{1}{2}$ to 1 lb. salt should be added to each 100 lbs. of mash. Fresh water, grit and oyster shell should be provided at all times.
100 " wheat	243	182	
20 " oats	39	31	
20 " bran	31	41	
20 " shorts	41	44	
20 " corn meal	50	27	
20 " beef scraps	21	221	
Total	680	680	

MOULTING RATION.

Give half ration for two weeks or until birds are poor, then build them up rapidly. Balanced egg ration good.

BREEDING RATION.

Corn and wheat, equal parts, fed in litter night and morning, about a pint to ten hens. Mash given in balanced egg ration given in afternoons. Free range, grit, oyster shell and fresh water should be provided at all times.

BALANCING THE RATION FOR EGG PRODUCTION.

It will be seen by examining Fig. 6 that the egg is made in three parts and made in three parts of the egg organs and made of three kinds of food. The yolk is made principally of fat-forming foods, the white of protein and the shell of minerals.

In order to balance the ration for egg production, it is necessary to know how much yolk and white-forming material is in each kind of feed. Then in compounding the ration we should use quantities of different feeds so that the total will produce an equal number of yolks and whites.

The following table shows the number of yolks and whites produced from one hundred pounds of the different kinds of feed:

GRAIN.	Yolks.	Whites.	MILL PRODUCTS.	Yolks.	Whites.
Corn.....	25	134	Wheat Bran.....	15	205
Kaffir Corn.....	25	125	Middlings.....	27	220
Wheat.....	243	182	Corn Meal.....	26	135
Cowpeas.....	18	305	Ground Oats.....	19	155
Oats.....	195	155	Gluten Meal.....	23	430
Barley.....	203	145	Alfalfa Meal.....	13	205
Buckwheat.....	178	128	O P Oil Meal.....	16	500
Sunflower Seed.....	233	266	Cottonseed Meal.....	148	620
MEAT FOOD.			DRY FORAGE.		
Beef Scraps.....	106	1107	Corn Fodder (Dry).....	133	41
Fish Scraps.....	87	806	Alfalfa Hay.....	140	180
Dried Blood.....	19	871	Clover Hay.....	132	113
Fresh Cut Bone.....	19	336	Timothy Hay.....	155	46
GREEN FORAGE.			Cowpea Hay.....	114	71
Alfalfa.....	46	67	Wheat Straw.....	121	7
Clover.....	54	48	VEGETABLES.		
Corn Fodder (Green).....	42	16	ROOTS, ETC.		
Cabbage.....	40	11	Apples.....	62	12
Rape.....	56	11	Mangel Beets.....	19	18
LIQUIDS.			Mangel Beet Leaves.....	28	16
Whole Milk.....	44	60	Onions.....	11	25
Skimmed Milk.....	22	52	Potatoes.....	55	15
Butter Milk.....	22	65	Turnips.....	26	16
			Pumpkins.....	2	23
			Corn Silage.....	42	15

The above table assumes that one pound of carbohydrates will make $3\frac{1}{3}$ yolks and one pound of protein will make $16\frac{2}{3}$ whites. This is above maintaining the body where hens are fed all they want.

The following shows an unbalanced and a balanced ration for egg production:

Unbalanced Ration.	Yolks.	Whites.	Balanced Ration.	Yolks.	Whites.
100 lbs. Corn.....	255	134	100 lbs. Corn.....	255	134
100 " Wheat.....	243	182	100 " Wheat.....	243	182
20 lbs. Oats.....	39	31	20 " Oats.....	39	31
20 lbs. Bran.....	31	41	20 " Bran.....	31	41
20 lbs. Shorts.....	41	44	20 " Shorts.....	41	44
20 " Corn Meal.....	50	27	20 " Corn Meal.....	50	27
			20 " Beef Scraps.....	21	221
Totals.....	659	459	Totals.....	680	680

It will be seen that the unbalanced ration produced more fat than albumen and would therefore be a good fattening ration. The grain (corn and wheat) should be fed in the litter, one pint in the morning and one quart in evening, to ten hens, if penned. Amount of range, size of breed, season, etc., will influence quantity of feed consumed. As fat or yolk material produces heat, it should be increased during winter and decreased in summer.

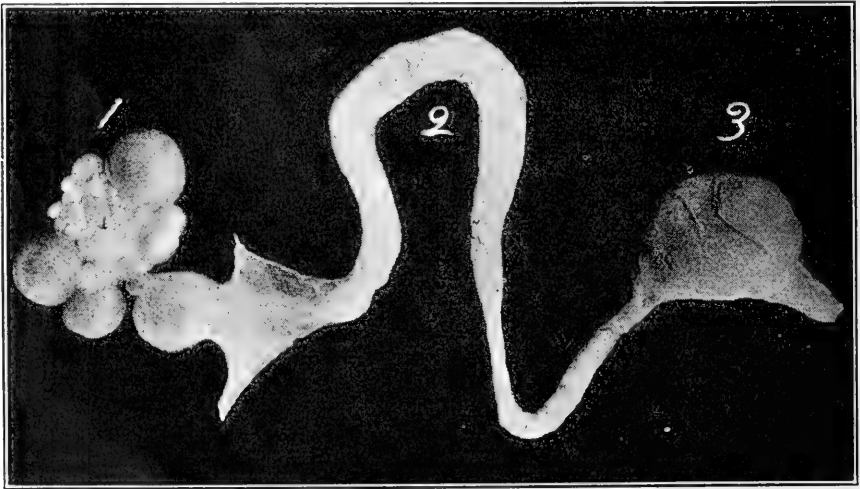


Fig. 6. Photograph of the egg organs of a hen straightened out to show the sections where different parts of the egg are made. 1 is the ovary where the yolk is made. 2 is the part of the oviduct where the white is made. 3 is the part of the oviduct where the shell is made.

The mash should be in hoppers where the hens can eat at any time. Oats may be fed with either grain or mash. One-half pound of fine table salt and two pounds of fine charcoal should be added to each one hundred pounds of mash.

The various ingredients in the mash should be evenly ground and well mixed so that the birds will not pick out the ingredients they like but will get some of each in every mouthful.

In mixing "wet mash," care should be exercised that it be merely moistened and not pasty.

Fresh water should be before the birds constantly. It serves a fourfold purpose:

1. It fills up and expands the tissues.
2. It aids in digestion by softening the food.
3. It becomes a part of the egg.
4. It is very helpful in regulating the temperature of the body.

Grit and oyster shell or ground limestone should be before the birds at all times.

A GOOD FEED HOPPER.

The grain should be fed in the litter and let the birds scratch for it, but a hen cannot grind and digest food as fast as she can manufacture eggs. Therefore, we find that more eggs can be produced if she is fed a mash of ground feed and better results are obtained if the mash is fed in automatic hoppers as shown in Fig. 7. The hopper can be left open so the hens can eat at any time they choose or it can be closed during a part of the day.

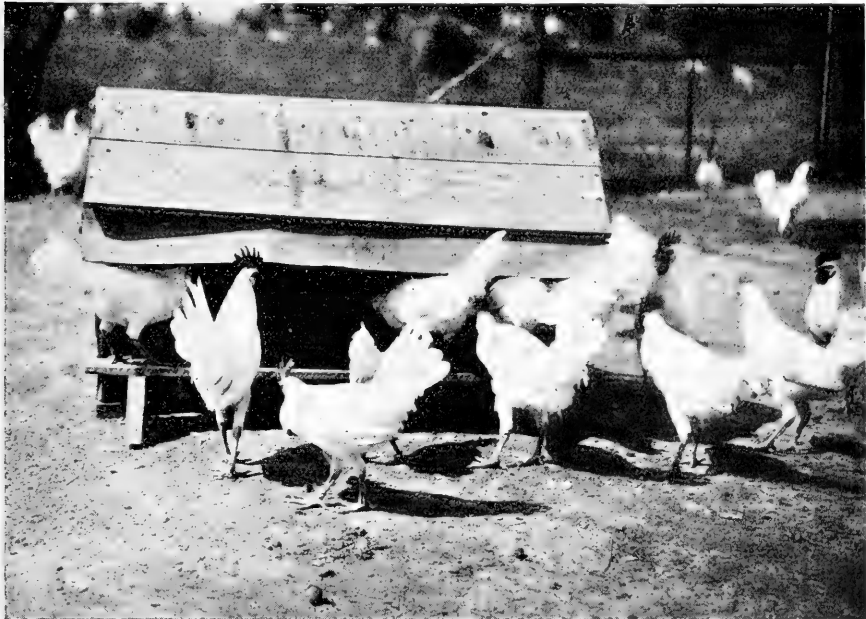


Fig. 7. An outside feed hopper so arranged that the birds may eat at any time they choose.

The question of yarding is a very important one and is seldom given due consideration. On the average farm it is more practical to let the birds range at large where they can get a great deal of their food by picking up shattered grains or catching insects about the farm. Plenty of range insures better health, reduces the feed cost and the cost of equipment; hence yards should be avoided whenever possible.

Under these conditions, it is necessary to fence the garden to keep the birds out and it is practical to select about fifteen of the best females and place in a pen with a good male and do all incubation from this pen. The outside hens need not have any males with them, but sell all infertile eggs from these hens. The poultry yard should be square as it can be fenced cheaper than a rectangular yard.

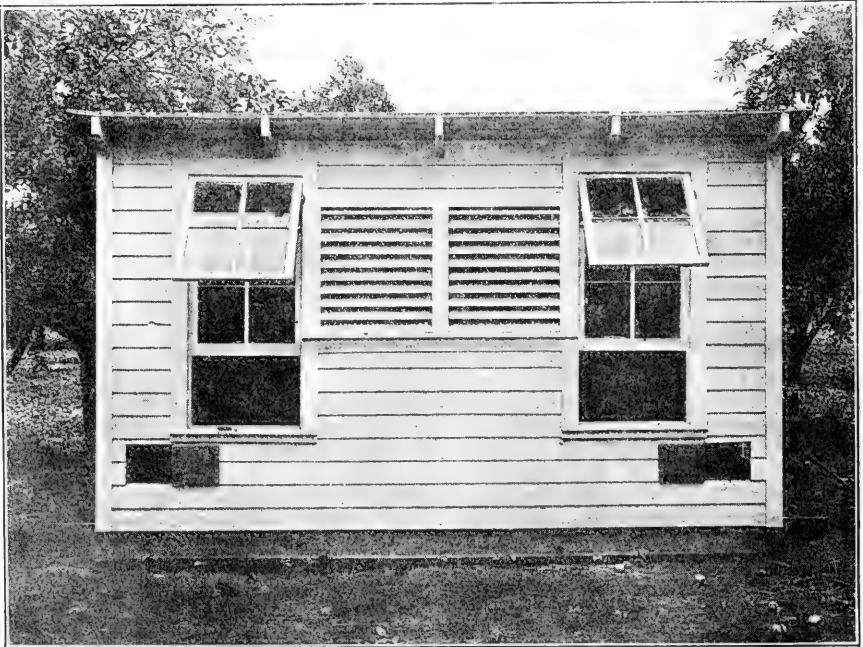


Fig. 8. Colony house.

The poultry yard may be used after the breeding season for young chicks.

The fowls' habit of getting over a fence is to fly on top of the fence and then fly down on the other side. For this reason, the fence should not have a board or any heavy object at the top which would tempt the birds to get over.

HOUSING.

The poultry house should be the poultry's home and they should recognize it as such. Owing to the fact that the fowls stay in the house more than half their time, it is very important that the house be free from drafts, yet supply an abundance of fresh air.

For a complete discussion of poultry houses see Bulletin No. 4, The Fool-proof Poultry House bulletin.

CAPONS AND CAPONIZING.

Caponizing is the desexing of male fowls and is done for the same purpose that the males of cattle, sheep and hogs are desexed, which is to increase the quantity and improve the quality of the flesh.



Fig. 9. School children watching a demonstration in caponizing.

Capons grow larger than full-sexed males and sell for higher prices than females. A cockerel which would as a male grow to weigh eight pounds, if caponized when it weighs two pounds, will grow to weigh ten pounds, and instead of bringing five or six cents per pound as a male would be worth from fifteen to twenty cents per pound as a capon, thereby making it of far more value than if it were kept as a full-sexed male.

The same per cent of gain is made with all breeds and varieties, which is from 25% to 50%. To illustrate, if a cockerel would as a full-sexed male get to weigh 8 lbs., as a capon will get to weigh 10 or 12 lbs. by the time it is mature, and a cockerel of a smaller breed would make the same per cent gain.

The question is often asked, "Is caponizing practical and profitable?" We do not hesitate to say that it is practical, for anyone can learn to do the work successfully, but the profit will depend upon market, source of feed, location, management, etc. In fact, the profit depends upon so many things that it is a question whether or not capons are profitable, but from the standpoint of furnishing fine meat for home consumption capons have no equal.

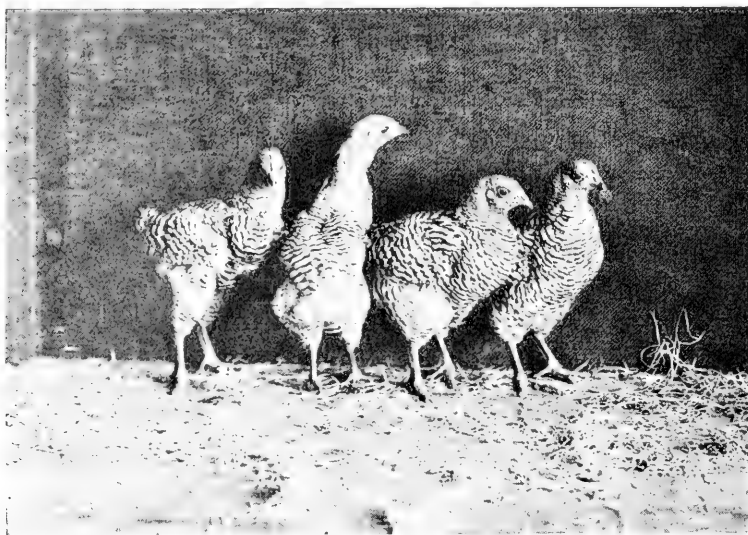


Fig. 10. Cockerels the proper size for caponizing.

In the spring, while the price is high for young cockerels, the surplus cockerels should be sold on the market, but after the supply has met the demand and the price is low, the surplus males should be caponized. They can be kept then any length of time without the value decreasing because of development, but, on the other hand, the value increases till they are mature, and they cause no trouble nor disturbance in the flock. June and July are the months when the greater number of cockerels are caponized for home consumption.

The work should be done just as soon as the sex can be determined, even before their combs develop and they begin to

crow. This is usually when they weigh from one to three pounds.

The cockerels to be caponized should be kept in a dark place without feed or water for at least 24 hours. This puts them in proper condition, as the intestines will be empty and not in the way and the circulation is reduced from lack of blood.

To do the work, the bird should be stretched out on the top of a barrel or a box, a string tied to the feet and one to the wings, with a half brick at the other end, which makes about the proper weights. An incision about an inch long is made between the two ribs nearest the thigh and a spreader inserted to hold the incision open. The organ to be removed can be seen plainly fastened to the back. It is usually between the size of a grain of wheat and a bean, and yellow in color.

The danger in caponizing is breaking the artery which runs between the organ and the back bone. Both organs can be removed from one side, but it is more practical to operate from both sides as there is less danger in going in from both sides than going through the middle partition or membrane which divides the body cavity.



Fig. 11. The same four cockerels as represented in Fig. 10 as mature capons.

If the instruments are sterilized or cleaned it is not necessary to use any antiseptic, nor is it necessary to do anything with the incision, for when the bird is released the thigh comes

up between the incision in the skin and the one between the ribs, therefore no stitching is necessary.

The bird is ready to be fed and watered as soon as it leaves the operating table, but of course it is better to give soft feed at first and not gorge it, for it is hungry and would eat too much if it had the opportunity. If the skin heals before the inside incision, wind puffs usually follow because the air passes through the inside incision. If the puffs are so large they hinder the bird's movement they should be opened to let the air out, but if they are small they should not be bothered.

Capons do not need special rations.

TURKEYS.

The turkey is a very stately bird. It was found wild in America when the country was discovered.

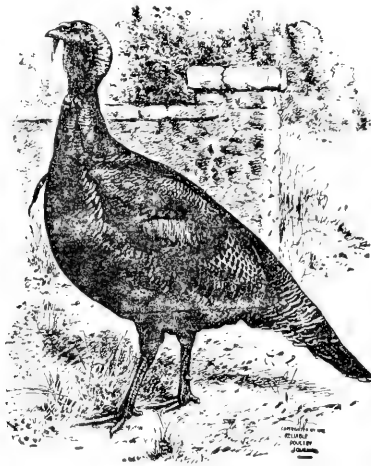


Fig. 12. The stately Bronze Turkey.

The varieties best known in Missouri are Bronze, Narragansett, White Holland and Bourbon Red. As to which variety is the most desirable, this depends altogether on location and surroundings. Where farms are large, the Bronze is very satisfactory because they are usually good rangers and get their living by wandering and catching insects, but where the farms are smaller, one of the other varieties would be preferable for they would not stray far enough to bother a neighbor.



Fig. 13. Bourbon Red Turkeys.

Turkeys lay rather large eggs, usually covered with reddish specks. The turkey hen in the spring season usually wanders alone to some brush heap or fence corner where she makes her nest and lays usually from twelve to twenty eggs before going broody. If she is broken from broodiness she will lay another nest of eggs and go broody a second time. Occasionally a turkey hen will lay in the fall season, but the spring is the turkey's natural laying season.

Eleven turkey eggs are usually considered a sitting, owing to the fact that the chicken hen is taken as the standard to

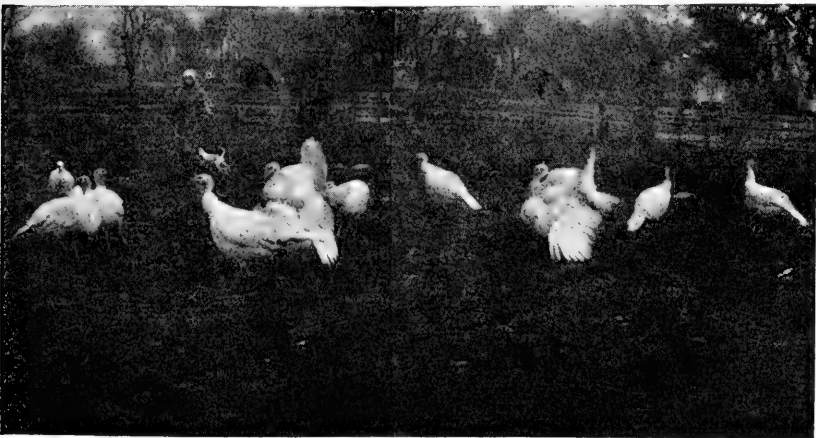


Fig. 14. White Holland Turkeys on range.

estimate the number of eggs to the sitting. It requires four weeks for turkey eggs to hatch. One mating with the male is all that is required to fertilize the eggs during an entire laying period.

Turkeys do better if they have an abundance of range. The breeders are in better condition and produce eggs which will hatch strong, vigorous poults. The turkey hen makes the best mother, for she understands the nature of the little poults better than the chicken hen. If the little poults are with a turkey hen they will need very little or no feed, depending upon the amount of range. Pasture land with short grass adjoining woodland which has little or no underbrush makes ideal range. The turkeys range in the open during the cooler parts of the day and go to the shade in the timber during the hot hours in the middle of the day.



Fig. 15. Where turkeys are properly treated they become very quiet and tame.

If the turkey hen makes her nest distant from the poultry yard, care should be taken to prevent crows from taking the eggs.

Twelve-inch boards may be used to make a pen in which to keep the young poults. The hen should be left free. She will not leave her young.

The first feed may be composed of cottage cheese, hard-boiled egg and bread crumbs, sprinkled with black pepper. Care should be exercised not to overfeed. After only a few days the poults may be turned out with the hen on the range, where they will get their living by catching insects, etc.

The three greatest causes for loss in turkeys are:

1. Overfeeding while young.
2. Vermin while the poults are growing.
3. Blackhead.

Turkeys are also subject to diseases common to chickens, such as roup, canker, chickenpox, etc., which are discussed in the chapter on diseases in this bulletin.

Turkeys are in great demand during Thanksgiving and Christmas times.

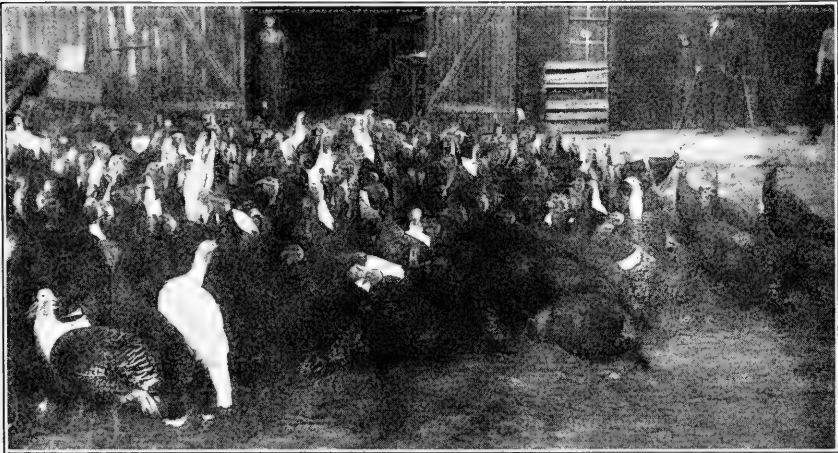


Fig. 16. A large number of turkeys of different varieties being driven to market.

DUCKS.

Growing ducks successfully, depends greatly upon location, not only the immediate location relative to surrounding country, but the location relative to markets.

One of the advantages in growing ducks is that very little fencing is necessary as a very low fence is all that is required.

Ducks belong to the waterfowls, having web feet, which are made by nature to swim with, and the bills have strainers in the sides so food may be taken in the water and the water passed out through these strainers, leaving the food in the mouth. Ducks therefore get much of their food from the water.

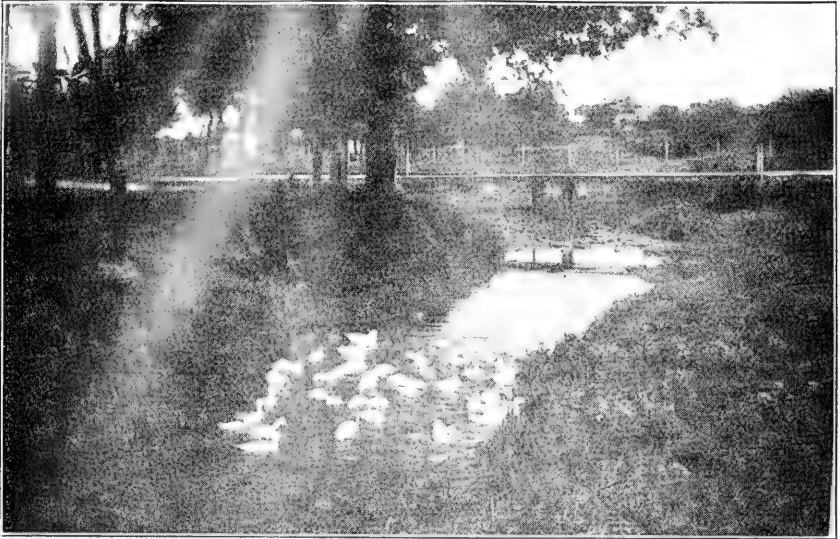


Fig. 17. View of part of the duck yard at the Experiment Station.

Ducks originated from wild ducks which were captured in different countries and domesticated. The breeds best known in Missouri are the Pekin, Mallard, Rouen, and Runner. Perhaps the Pekin and Runner are as well known as any, the Pekin being the meat and feather producers, while the Runner is the egg producer. The Muscovy is a large meat producer, but is not so well known.



Fig. 18. Ducks on the road home after a pleasure trip to the stream.

In the early part of the breeding season the ducks seldom make nests but lay during the night or early morning on the ground where they roost, but during the latter part of the spring they build nests, and in many cases the ducks become broody and will incubate a nest of eggs and brood the ducklings, but on many farms incubation is done with chicken hens or in incubators and brooding done with hens or in brooders.



Fig. 19. Strong, vigorous ducks which are good for the breeding yard.

Strong, vigorous breeding stock is preferable. One male is mated with four or five females. The eggs require four weeks to hatch. Eleven eggs are usually considered a sitting.

Ducks are not subject to as many diseases as chickens. The greatest losses seem to occur in young stock from acute indigestion and sunstroke. If too much dry food is given without a sufficient amount of water, the duckling seems to have a congestive chill, loses the use of its legs, and neck draws in a spasmodic manner. Later the neck falls limp, similar to limberneck in chickens. The symptoms of sunstroke are very much like those of acute indigestion. The cause of the trouble in either case is a lack of water, while the remedy is to supply plenty of water and shade. Feed should never be given without giving water at the same time and in vessels close to the feed, for ducks like to take a mouthful of food, then some water.

FEED RATIONS FOR DUCKS OF ALL AGES.

First day.—Yolk in body supplies food. Do not feed.

One to five days.—Equal parts wheat bran, corn meal, bread crumbs, hard boiled eggs, and one teaspoonful of fine grit to each pint of feed. Feed four times each day.

Five days to five weeks.—Equal parts wheat bran, corn meal, and shorts or middlings, and add a tablespoonful of beef scraps and a teaspoonful of fine grit to each pint of feed. Feed four times each day.

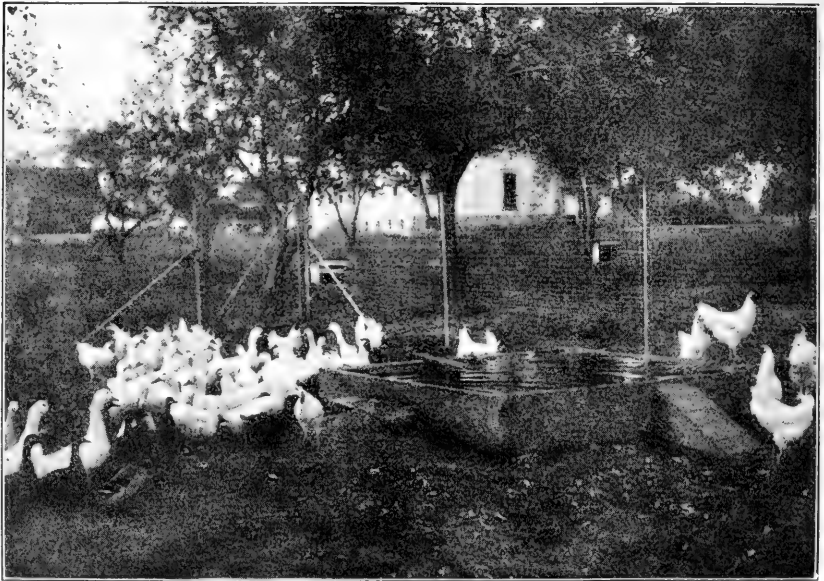


Fig. 20. An artificial duck pool.

FIVE WEEKS TO MATURITY.

Corn meal, 3 parts.
 Wheat bran, 2 parts.
 Ground oats, 2 parts.
 Shorts or middlings, 1 part.
 Beef scraps, $\frac{1}{4}$ part.
 Fine grit or sand, $\frac{1}{8}$ part.

FATTENING RATION.

Corn meal, 3 parts.
 Ground oats, 2 parts.
 Low grade flour, 2 parts.

RATION FOR BREEDING DUCKS.

Wheat bran, 2 parts.
Shorts or middlings, 2 parts.
Ground oats, 2 parts.
Beef scraps, $\frac{1}{4}$ part.
Crushed oyster shell, $\frac{1}{8}$ part.

All the above rations should be moistened with cold water, not made wet and sloppy, but moist enough to be crumbly.

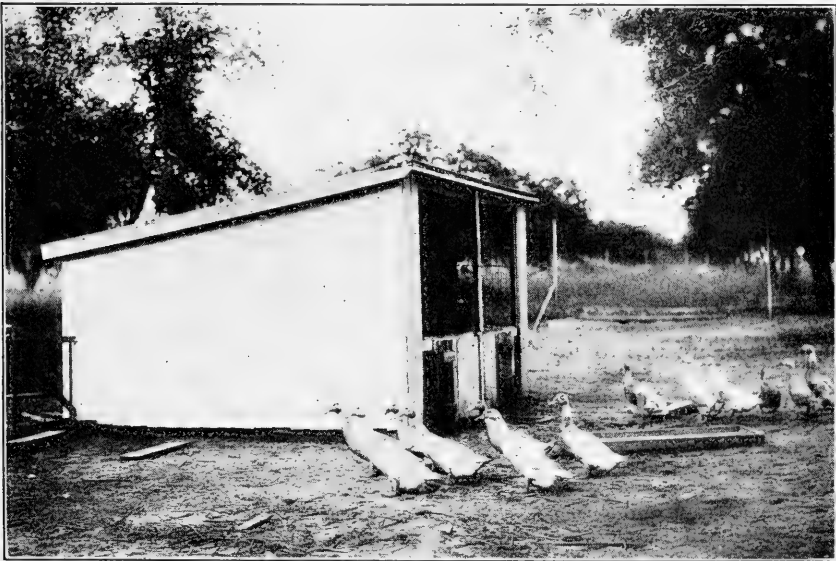


Fig. 21. A good duck house.

GEESE.

Geese belong to the waterfowls the same as ducks, having webbed feet for swimming, and the bill or mouth parts arranged for taking food from the water.

The origin of domesticated geese was the same as the origin of ducks, which was by domesticating the wild fowls which were caught in their migration during the spring or fall.

The varieties best known in Missouri are the Toulouse, Embden, Chinese and the Canadian or Wild Geese.

It seems to be nature's plan that geese should mate in pairs, therefore there should be the same number of males and females.



Fig. 22. Wild or Canadian Geese on a stream at the Missouri State Poultry Experiment Station.

On the water is the natural breeding place. Therefore a pond or swimming pool is necessary in order to insure fertile eggs.

The goose builds her nest of sticks, leaves, straw, etc., and when she leaves the nest she covers the eggs carefully to protect them against the changes in the weather and to conceal them from the sight of crows or anything else which might destroy them.

The goose lays from eight to sixteen eggs before going broody. Nine eggs are usually considered a sitting. Six weeks of incubation is required for the eggs to hatch.



Fig. 23. Brown Chinese Goose.



Fig. 24. A nice flock of Embden Geese.

If plenty of drinking water and grass pasture are furnished, the goslings will need very little attention, as they can live and do well on green pasture during the summer. When fall comes a shed should be prepared and bedded so the geese will not have to roost on the cold, wet ground during the cold weather, as this often causes lameness.

The breeding stock should not be picked for feathers except during the natural molting season.

DISEASES OF POULTRY.

Care and Treatment of Sick Fowls.

(By Geo. D. Horton, Department of Bacteriology, Missouri State Poultry Experiment Station.)

Health is the "Safety First" of the poultry industry. Regardless of the variety or breed of fowls, the all-important factor is the health of the individuals. One cannot expect 100% efficiency from fowls that are only 50% efficient. Nothing cuts down the efficiency of a fowl more than ill health or disease. Sick fowls are not good layers, and make poor breeding stock. Ordinarily, there is but one hereditary disease that causes great losses of young chicks—the Bacillary form of White Diarrhea. However, we would not consider breeding from immature, undeveloped stock, or stock of low vitality for the reason that through inherited weaknesses the chicks' health is impaired.

In the breeding and rearing of young chicks we must not only consider the present generation, but also the health, vigor and vitality of the third and fourth generations to come. Disease germs are no respecters of individuals. To say that one breed or variety of fowl is predisposed to certain diseases is just as ridiculous as saying that "those who happen to be shot in warfare are predisposed to bullets." Any and all breeds if not properly handled (sanitary methods of housing and feeding) sooner or later succumb to the ravages of disease and at a considerable loss to the owner. Thus it is that an "ounce of prevention is worth a pound of cure."

It was customary at one time to think that the young chicks must have attacks of the different diseases in order to really grow up. The idea was that if the chick was not able to withstand the battle for life it was better off dead, but modern methods of sanitation, the killing of the germs (Pathogenic

bacteria) by the liberal use of disinfectants, gave a different aspect to the situation. It became far cheaper to kill the germs than to have the germs kill the fowls. If fowls are properly handled there is no reason why a single bird should be lost during the entire season.

A partial list of the so-called germ diseases which may and can be controlled by proper handling and care is as follows:

White Diarrhea (Bacillary form).

Roup, Canker, Chickenpox.

Fowl Cholera and allied forms.

Vent Gleet.

Tuberculosis.

Bumble foot (filth).

Prevent these diseases from entering your flocks by keeping the houses and yards free from filth and debris. Use plenty of disinfectant, applying liberally. One of the cheapest and best disinfectants is Chloride of Lime.

Besides the germ diseases of poultry we have the parasitic forms, both external and internal. By the term parasites we mean "an animal which lives during the whole or part of its existence on or in the body of some other animal, feeding upon its food, blood or tissues, as lice, tapeworms, etc." (Webster.)

External	{	Fleas.
	{	Lice.
	{	Mites.
Internal	{	Round worms.
	{	Tape worms, etc.

Both forms of these parasites, external and internal, live at the expense of the fowl and not only rob the fowl of its life blood but also are a constant irritation to the individual. This constant irritation, together with the loss of strength, have a marked tendency to weaken the fowl, to lower its vitality, which in turn brings about a condition favorable for the entrance of disease germs. What happens? Why, the weakened fowl is not able to fight off the disease germs and if treatment is not administered at once the loss of the bird follows.

Allow it to be said right here that the secret of success in treating sick birds, or "doctoring" them, is to treat just as soon as the individual is found to be out of condition. A true poultryman and fancier knows his flock, knows every individual bird and knows its condition at all times. He does not have to wait

until the bird falls over dead to know that it has been sick, nor does he cut a bird's head off when it sneezes, but on the other hand, he removes the "off condition" birds to clean, dry, roomy, well-ventilated, sunshiny quarters, well isolated from the rest of the flock. This is the first step in the handling and care of all sick birds and is a most important one. Further treatment does not consist in administering a whole lot of "patent medicine dope" nor following the "advice" of a neighbor who has never lost a chick. The all-important thing is to use good common sense and plenty of it.

This applies not only to the treatment of fowls but in all lines of poultry culture—feeding, housing, breeding, care, etc. Allow all the sunlight obtainable to enter poultry houses, yards, coops and runs and keep your plant *clean*. Serious troubles of all kinds occur day after day; there's always something going wrong when fowls are kept under dirty, filthy, unsanitary conditions.

We doubt very much the advisability of killing every sick bird, especially when the birds are costly ones. Dead birds should be burned to a crisp and not buried. Of course, the hatchet is recommended in extreme cases, but many cases will not be extreme if the proper methods of handling and caring for the fowls are used.

The Poultryman's Medicine Chest.

No poultry farm or ranch should be without its medicine chest or cabinet. Below is a list of medicines which every poultryman should have on hand and which are at times invaluable in "First Aid Service." Most of these remedies are found in every household and are therefore to be doubly recommended in that they necessitate no extra outlay of money, for they may be used by members of the family in household management. Practically all of the different materials may be purchased at a local drug store at nominal cost.

We do not consider it advisable nor practical to have a "specific" for every ailment, although numerous writers have a contrary opinion:

Medicine.	Amount.	Use.
Liquid vaseline or liquid petrolatum.		In every case where Castor Oil is prescribed internally and where vaseline is prescribed externally. Crop Bound, Constipation, softening scabs, etc.
Powdered rhubarb, 2 parts. Bicarbonate Soda, 1 part. (Baking Soda.)	Two size 00 gelatine capsules.	For individual sick birds as laxative. For individual sick birds to sweeten stomach.
Wormseed oil (Jerusalem Oak) Powdered charcoal.	Individuals, 1 capsule size 00 Mixture 6-8 drops oil of wormseed, added to $\frac{1}{4}$ teaspoonful charcoal. Flock treatment—To moist mash add three quarters ($\frac{3}{4}$) of a teaspoonful oil of wormseed for every twelve fowls. Feed on empty crop or stomach.	Worms—all varieties.
Epsom Salts.	Flock treatment—To moist mash (all the mash that the flock will clean up at a single feeding) add six (6) teaspoonfuls of Epsom Salts previously dissolved in small amount water for every twelve fowls. It is essential that the fowls have plenty of clean, fresh water before them at all times.	
Tannic acid powdered.	Sufficient.	To stop bleeding combs, wattles, cuts, etc. Apply sufficient powder to cause coagulation of blood.
Tincture Iodine.		Antiseptic applied to wounds, cuts, abrasions, humples.
Absorbent cotton bandage.		
Lice, grease for.	1 pint lard, $\frac{1}{2}$ teaspoonful good disinfectant. $\frac{1}{2}$ pint lard, $\frac{1}{2}$ pint tallow, $\frac{1}{2}$ teaspoonful good disinfectant. Melt the grease then add the required amount of disinfectant, stirring in well.	For use in winter. For use in summer.
	In treating fowls for lice, the grease is usually applied by means of a finger and applied next to the skin, under the vent and upon each side of the fluff and breast. The amount of grease to apply varies according to the size and age of the birds. Ordinarily, an amount the size of a small hazel nut is sufficient for a mature bird. For small chicks, proportionately less must be used.	

One of the most successful methods tried at this station of controlling lice is by the use of Blue Ointment. There are two strengths of this ointment, a 33 $\frac{1}{3}$ % and a 50%. The 33 $\frac{1}{3}$ % is the one recommended for use. Mix thoroughly equal parts by weight of the Blue Ointment with lard, tallow, or vaseline. The high cost of this ointment is more than offset by its efficiency. Fowls that were greased in November were practically free from lice in April.

Mites, spray for.—1 part crude carbolic acid, 3 parts kerosene. Mix, and spray thoroughly into nooks, crevices, corners, etc.

Disinfectants.

A disinfectant according to the definition found in the dictionary is "that which frees from infectious or contagious matter disease germs, etc."

Under this definition would be included not only sunlight, our cheapest disinfectant, but also all makes and brands of disinfecting substances. All of us know disease germs (bacteria) will not develop or live for any great length of time in the presence of sunlight. Disease germs prefer dark nooks and corners where the sunlight seldom enters for their existence and development.

For this reason we must use disinfectants in dark, filthy corners and other places where the sunlight does not enter. Remember filth germs multiply at night as well as if not better than they do during the day; therefore, one advantage a good disinfectant has over sunlight is that it may act continuously twenty-four hours at a time where the sunlight does not do so. Sunlight and disinfectants, however, go hand in hand.

There are many different so-called disinfectants upon the market, and their strength or power to disinfect (kill germs) varies from practically nothing (compared to pure carbolic acid—phenol) to 14 to 16 times as strong as pure carbolic acid—phenol.

If by examination a disinfectant is found to be twice as strong as pure carbolic acid (phenol), then the strength of the disinfectant is spoken of as 2, or the phenol co-efficient is 2. If four times as strong, then the phenol co-efficient is 4, etc.

We must not assume that because a disinfectant is two or more times as strong as pure carbolic acid, [when its phenol co-efficient is 2,] that it will burn or blister the skin or poison twice as quickly. This is a mistaken idea. We would not think of using pure carbolic acid (phenol) in places where a disinfectant, of say two to five times its strength, might be used without inconvenience—this is because of the peculiar caustic properties of phenol.

Remember the higher the phenol co-efficient, the stronger the disinfectant, the greater power it has of killing disease germs. In purchasing disinfectants look for the words "phenol co-efficient" and know what you are buying. You cannot tell the strength of a disinfectant by smelling of it.

A partial list of disinfectants any one or all of which are "good" disinfectants together with their phenol co-efficients as determined by the Hygienic Laboratory, Washington, D. C., are included below:

Name.	Phenol coefficient without organic matter.	Manufactured by
Benetol.....	1.23	Benetol Co., Minneapolis, Minn.
Car-sul.....	2.00	Moore Chem. & Mfg. Co., Kansas City, Mo.
Coronoleum (Chloro- Napholeum).....	6.06	West Disinfecting Co., St. Louis, Mo.
Creolin-Pearson.....	3.25	Wm. Pearson; sold by Merck & Co., New York.
Hygenoa.....	3.56	Hygeno Disinfectant Co., Cleveland, O.
Kreso.....	3.92	Parke, Davis & Co., Detroit, Mich.
Lysol.....	2.12	Schuelke & Mayr, Hamburg; sold by Lehn & Fink, New York, N. Y.
Zenoleum.....	2.50	Zenner Disinfectant Co., Detroit, Mich.

To make up a 1% solution take 1 part of the disinfectant to 99 parts of water, preferably soft water. For ease in manipulation, use 1 tablespoonful of disinfectant to 3 pints of water, or 1 pint of disinfectant to 12 gallons of water.

One of the cheapest and best disinfectants is Chloride of Lime. Dissolve a 12 ounce can in a half barrel of water. Allow to dissolve and then filter, before spraying, through a bran or wheat sack. Spray thoroughly all the nooks and corners of the house, also the droppings boards, roosts, nests, etc. Do not overlook the fact that sunshine and all of it that it is possible to obtain is necessary and essential.

A good whitewash that is easily made, and one that will not rub off is made accordingly:

Place in a 52-gallon barrel (convenient size $2\frac{1}{2}$ buckets (12-quart size) of lime; add 1 gallon of common salt, then add sufficient water to make thin paste. Allow to stand over night, then add sufficient water to fill barrel. Mix thoroughly then strain through fine screen before using.

PRELIMINARY TREATMENT OF SICK FOWLS.

There are many ways of treating or "doctoring" sick fowls and almost every poultry raiser has a method of his own. To recommend any one way as being the "only" way is of course absurd. One person may have "results" in using some pet "scheme" of treatment which in the hands of another operator would fail miserably. We recommend the following treatment as one that may give universal satisfaction:

Just as soon as a fowl is noticed to be "out of condition" examine carefully for lice. If found to be infested, grease thoroughly. Then give approximately a teaspoonful of a mixture of powdered rhubarb and soda:

Powdered rhubarb, 2 parts	} Mix thoroughly.
Bicarbonate soda, 1 part	

This may be easily administered in pill form. Two gelatin capsules size 00. for mature stock. It is the opinion of the writer that powdered rhubarb and soda are more efficient than Epsom Salts in that Epsom Salts are too drastic in their action for sick birds. Epsom Salts are generally recommended for healthy fowls and may be given once a month in the mash.

After administering the capsules of rhubarb and soda, another capsule is given containing powdered charcoal and oil of American wormseed or Jerusalem Oak, mixed as follows:

Powdered charcoal, $\frac{1}{4}$ teaspoonful.

Wormseed oil 3 or 4 drops.

Be careful in adding right amount.

This preliminary treatment is given to sick birds, regardless of the character of the ailment. If a bird is very weak and run down no further treatment is given until the following day or until such time the bird has partially recuperated. To start right in "rough shod" to cure the bird would be suicidal. Allow the fowl sufficient time to "catch its breath," so to speak, and then by feeding soft mash to which has been added some cooked egg bring the fowl "around" for treatment.

Ofttimes a weak bird is mistreated by other members of the flock, and if removed in time and placed in a quiet place with plenty of good food and water, in many cases no other form of treatment will be necessary.

TEACHING POULTRY IN THE HIGH SCHOOL.

(By B. F. Parker, Adrian, Mo.)

By way of introduction to my remarks on the teaching of poultry in the high school, I wish to get clearly before you the aims toward which I am working, for a clear understanding of the end sought in any enterprise greatly aids in the justification of methods used, and in removing objections and criticisms which always attend any progressive movement.



Fig. 25. Prof. B. F. Parker of Adrian, Missouri, with his class studying poultry.

In general, the aims in the teaching of poultry in the high school are the counterpart of those in the developments of agriculture in the nation for which so much time and money is being spent. But the poultry industry not only engages the time and attention of a larger per cent of our people than does general agriculture, but it stimulates the energies and interests of the population in both city and rural districts, while the study of crop rotation and soil fertility affects directly a much smaller per cent.

Again, the production and sale of chickens and eggs has been the sustaining industry of the farmer in these past years,

when drouth and floods and pestilence have swept away all income from the sale of crops, hogs and cattle.

Still further, the industry produces the greatest returns on capital invested and brings into the state a greater number of dollars than either the hay or wheat crop, and may be engaged in on a very small scale with an equal or even a greater per cent of profit.

My definite aims for the course are: First, the correlation of home and school interests, and there is no industry in which the home is situated in closer connection and in more intimate contact with the heart of the business interests of the family.

Second, I hope to give my students a practical course which they can make use of for their material benefit, and which will encourage in them a habit of thrift. The nickels and dimes and dollars produced by the child's own efforts will find their way into the School Savings Bank much easier than those which the parents give him. This aim is being fulfilled in some of the southern states by what are known as "Pig Clubs" or the "District Pig." A pig is donated by some patron of the district and placed in suitable quarters on the schoolhouse grounds. Its food is furnished by the pupils, all scraps from the dinner pail being collected, and so great does the interest become in the welfare of the pig that little Johnnie or Mary frequently return from school almost famished. When ready for market the pig is sold and the money used for the benefit of the school.

Third, I hope to encourage the production of pure-bred poultry in the community, and this is not a difficult task, for I find that a very small per cent of the farmers in the vicinity of Adrian own mongrel flocks.

Fourth, I hope to develop and encourage an interest in all phases of the poultry industry.

The methods used in my classroom in fulfilling these aims are as follows: Since I am limited to about two weeks actual study of poultry in the schoolroom, it has to be a hurried one. I begin about the first of November with the study of the types, classes, breeds and varieties of poultry, and the relative importance of each, especially of the egg and meat types, and the general purpose fowl. We study some of the breeds in a comparative way by bringing the specimens into the schoolroom or by visiting some poultry plant for this purpose. I have one Single Comb White Leghorn cock which will be six years old next spring that I use to represent this class. He came from

the Youngs' Farm, so is an unusually good specimen, having cost \$48 at the time of shipment.

We study the egg and its importance and the necessity for infertile eggs during the marketing season following the incubation season. Also the care of eggs before marketing and how to market and grade eggs. We make a laboratory study of the egg and the growth of the embryo chick during the incubation of the eggs and we are then ready for incubation proper.

We make a study of the requirements of the egg during the incubation, and the kinds of eggs to select for hatching purposes. Different students care for the incubator during the different hatches. We set the incubator about the first of April or earlier and continue until school closes the last of May. At the beginning of the recitation each day we take a few minutes for questions and information, and then consider the regular topics for the agriculture work.

Another method of study is visiting our Poultry Show. My class always takes one day to visit our County Poultry Show held about the first of January, so that by beginning the study the first of November we are ready to visit the show and get a great deal of good out of the visit. This is always our most profitable and interesting day during our study of poultry.

Then follows the egg-laying contest. By the time we are through with the class study we are ready to take up the egg-laying contest, which continued last year from January 25th to April 19th. Each member of the class furnished three pullets, making a total of fifty-seven birds of various pure breeds. The laying hens were cared for by students most of the time, and were fed according to the methods used at Mountain Grove Experiment Station. Simple trapnests were made by the students by knocking an end out of an egg case or an orange box and fastening a quarter inch mesh wire with two staples, which served as hinges. A trigger was fastened to hold the door up and when a hen pushed up on the door it released the trigger and the door fell. The daily or rather the hourly reports created a great deal of interest during the entire time so that the study of poultry continued longer than the two weeks allotted to it. If there was a slack in the laying we made an effort to find the cause or if there was a sudden increase we sought the reason.

My class is small this year and we do not expect to have a contest of this kind, but are hoping that the County Superintendent of Schools will succeed in getting the districts to

organize poultry clubs and enter into a County Egg-laying Contest. I believe that if such a contest could be held with a suitable list of cups and prizes, there would be a great deal of good done to the community.

Another plan of our work is that of DAY-OLD CHICKS. This has been the most interesting part of our poultry study and by far the most profitable. The M. M. Johnson Company donated one of their Old Trusty incubators to the school and we used it last season with success. I learned that we could get a market for all the chicks we could hatch and deliver in Kansas City, so we investigated and found that we could get eggs from pure-bred stock in the local community and enough to supply a goodly number of chicks. We found about how many incubators we could run during the season, and then contracted with a Kansas City firm to furnish at least six thousand day-old chicks, or about five hundred each week, to be shipped on Tuesdays and Thursdays. During the season we sold sixty-five hundred seventy-five chicks at an average of seven cents each, bringing into the community a total of \$455.55.

We bought eggs from flocks that were producing a high per cent of fertile eggs. If we found a batch of eggs that were bad we did not buy more eggs from that customer. If we found unusually good eggs, we paid as high as two dollars per hundred when they were worth only one dollar and thirty cents per hundred. We always paid one to two cents per dozen above market price. Several of the students cared for incubators of their own as did many patrons of this district. The chicks were delivered at the school building, where they were boxed and then shipped by express to the city.

We have a contract to furnish to one firm ten thousand day-old chicks this coming season and we are now making preparation to supply them. We could have contracted for twenty thousand as well as for ten thousand, but we cannot furnish many more than we contracted. We expect to make our first shipment about the tenth of March and continue until June.

During the whole time from November to June we are studying poultry incidentally and getting more young people interested in the industry, as well as many of the older people who are finding the sale of chicks a source of income heretofore unthought of in this community.

Thus through the methods used and the selection and order of the study of the different phases of the poultry industry, namely, types and breeds of poultry, egg production, marketing, and incubation, poultry shows, egg-laying contests and the sale of day-old chicks, I feel that we of the Adrian High School are correlating home and school interests, making the course practical, encouraging the production of pure-bred stock and developing in the community one of the most dependable and profitable industries in the United States; and the inquiries we are receiving as to our plans for the coming season and the evidences of interest manifest in various ways make us feel that the agricultural classes of our high school of the past three years have not been altogether unavailing.

MAKING POULTRY PAY.

(By Mrs. W. B. Roberts, Carterville, Mo.)

To make the profit come out on the right side, in your annual balance, is the big proposition. Some articles I have read are very misleading in regard to quick and easy money in the poultry business. As has been said many times before, this is not a "get-rich-quick business." There is, however, a fair margin of profit if you are careful. The essentials, or the absolute necessities in Making Poultry Pay, are, first, pure-bred poultry—strong, vigorous stock. Select a breed you like, your ideal from a beauty and utility standpoint. You will take more interest in you flock and they will consequently have better care.

Start with a few good birds that have been properly bred. By that I mean if you have selected an egg-producing breed, they should be bred for eggs if you have selected a meat type, they should be bred for size and quality of flavor, big birds that fatten quickly. In the all-purpose fowl proper breeding means improvement. Don't be satisfied with what you have, keep on striving for the best and never lose sight of breed type and color, no matter what kind of poultry you breed. A good comfortable house, well located, also well lighted and ventilated and conveniently arranged. You need not have an expensive house. So much has been said about poultry houses in our state bulletins, full details and plans given, that I will not tell you how to construct your poultry house. But, I consider poor housing a serious defect in your business methods. Get good birds,

put them in a good house, and then go to work. If you can't work you can't make money.

Adopt a system, a progressive poultry keeping system, and follow it up with methodical care. It makes no difference whether you use just ordinary common sense methods or scientific methods, to be successful you will have to have system. Haphazard methods never did pay. Properly balanced feeds are also necessary to the success of your business. On the feed and your feeding method depends the development of your birds and their productiveness. Feed for quick development, it will bring you money on your broilers and friers. A pullet that develops early comes into egg early and is consequently adding to your profit.

It is very important that you pay strict attention to cleanliness. There can be no lice or mites or disease germs if your place is kept clean—clean food and clean water. Clean houses and clean yards. Keep your birds clean inside as well as out. About once each week give each bird one-third teaspoonful of Epsom salts in a bran mash. Do this especially in the breeding season, it will add greatly to the vitality of your baby chicks. Good care means work and the more you work the bigger your bank roll. Strict attention to the many little things about the place will add materially to your profit. A small leak will soon drain away your profit.

A market is also essential—a good market that demands your products. If you haven't a market you must create one. A little advertising will reach those in need of breeding stock, baby chicks, table birds, eggs for hatching or sterile eggs.

There is a good local market here for sterile eggs; they bring 50c per dozen when sold to invalids or sanitariums.

I wish to lay stress on culling your flocks. Market your poorly shaped birds. Culling your poultry is like pruning your fruit trees. Cut off the offending branch and have a well-shaped tree and better fruit. Sell your Barred Rock hen that has a Leghorn tail or a Minorca comb. A bird that hasn't breed type is disqualified as a breeder and will ruin your flock as quickly as any showroom disqualification.

You must have business ability to succeed. Ability to hatch and rear chicks, especially the rearing. There is a kind of "nack" about rearing chicks, and if you haven't it you haven't the ability necessary. Don't call it white diarrhea and let it go at that; not all baby chicks die from white diarrhea. Don't

lay it on to the incubator or the hens. Very likely the hatching has nothing to do with it. It's your inability to feed properly and brood properly. Use common sense and judgment in your breeding pens, in expenditures of money, in feeding, and in all branches of your poultry work. As Prof. Quisenberry says, "use gumption."

You should keep in touch with poultry people through current publications. You should also be active in your local association.

Last, but not least, is membership in the Missouri State Poultry Association.

THE POULTRY BUSINESS OF TODAY.

(By Chas. J. Labahn, Lincoln, Mo.)

Poultry is being recognized more and more as a profitable business, especially in addition to general farming. Farmers are beginning to realize that chickens, which they have heretofore recognized and designated as a necessary nuisance, are capable of returning a nice margin of profit if given a little care and proper housing. Through the medium of the State Poultry Experiment Station at Mountain Grove and the Poultry Department of the State University, Columbia, Mo., the poultrymen and farmers of Missouri receive much valuable information in the form of free bulletins and circulars on poultry subjects, as well as personal attention to any inquiries sent in. This service creates an incentive to produce more and better poultry, as well as a general interest in practical up-to-date and common sense methods of hatching, rearing, feeding and marketing.

The laying contests have brought about keen competition among breeders and have done more than any other agency to encourage fanciers to breed for a combination of utility and fancy. Some breeders claim this to be an impossibility; however, there are numerous records of birds with good egg records that have also made good winnings in the showroom. A good example is a recent winning made by the progeny of the famous White Rock Hen, Lady Show You. (Lady Show You made a record of 281 eggs during the first Egg-laying Contest, and was sold for \$800). A female closely related to this high laying hen won first place at the Panama Pacific Exposition in San Francisco. I have entered this year at the National Egg-laying Contest, Mountain Grove, two pens of S. C. White Leghorns

that score individually above 90, and I feel they will make just as good or better records than the birds we had entered in the last contest, winners of the variety.

The White Diarrhea test is a late scientific development. Blood samples are taken from breeding stock and tested for the presence of White Diarrhea germs. In this way this dreaded disease can practically be eliminated from the flock, and if universally done would eventually mean a great saving to the poultrymen throughout the State.

The poultry industry of Missouri is greater and larger than that of any other state. Poultry and eggs to the value of \$49,537,025 were sold in 1912 by farmers and poultry raisers of Missouri. The entire production including home consumption was estimated and valued at \$78,000,000.

In 1900 statistical figures showed sales of only \$13,000,000. By 1905 the production was treble that of 1900, and figures showed total sales amounting to \$37,500,000. In 1908 this had increased to \$45,000,000, and since that time the annual increase has been in the neighborhood of \$500,000. This year the total sales will approximate \$55,000,000.

Eggs are the largest item, and represent about one-half the value of Missouri's poultry products. Live poultry is next, then dressed poultry, and lastly, feathers.

It is estimated that out of every 100 farms that keep live stock at all 93.6% keep poultry. Chickens make up approximately 91% of all poultry raised in the State of Missouri; turkeys, 5%; ducks and geese 3%, guinea fowls, pigeons and all others, 1%; Ninety-nine farms reported 407 pea fowls, valued at \$1,862.00; seven farms reported 341 pheasants, valued at \$981.00, one farm reported 11 wild ducks valued at \$11.00; eleven farms reported 77 wild geese valued at \$213.00, less than $\frac{1}{10}$ of 1% of the total production.

Within a few years, at the present rate of increase in the sales of poultry and poultry products, the value of Missouri's annual production will reach the enormous sum of \$100,000,000.

IMPORTANCE AND METHODS OF KEEPING POULTRY RECORDS.

(By Mrs. T. E. Quisenberry, Mountain Grove, Missouri.)

Record keeping dates back to ancient times. Moses kept records on tablets of stone. People have kept records of their deeds for lands, their births, deaths, marriages and other important events from the beginning of time.

The word "record" means to recall to mind or heart. The word is from the Latin *cor-cordis*, the mind or heart, and the prefix *re-* meaning "back." This recalling to mind is generally some note or record that has been kept for future reference.

No doubt Aesop in his wonderful fables kept poultry records, or how did he know which Goose laid the Golden Egg?

To be ignorant of the things done in the past is to grope blindly into the future. By knowing of successes and failures, it gives us a foundation on which to build.

All nations, companies, corporations and organizations of all kinds recognize the importance of keeping records.

Any manufacturing company which does not keep records of the cost of raw material and of the sales of all manufactured articles is sure to fail. If a railroad company should attempt to carry on its business without records, wreck and ruin would inevitably follow.

The poultryman who does not keep records of his poultry will fail sooner or later, for in this day of keen competition it is necessary to weed out that which proves to be a loss and keep only the profitable. This can be done only through carefully kept, systematic records.

The poultryman who maintains all branches of the industry such as eggs, broilers, friers, capons, eggs for hatching, baby chicks and breeding stock may be making a good profit on one line but losing on another, so that the total profit is smaller than it should be. Carefully kept records will show just where the profit is and where the loss is, so that the time, effort and expense used in the department of loss can be used to increase the capacity of the department of gain, thereby making a maximum profit.

The farmer may be making a profit of \$200 per year from his flock of hens and losing the same amount from his hogs,

and without records he is apt to condemn both and declare there is no profit in either poultry or hogs.

Believing all agree that keeping records is absolutely necessary in the successful operation of all lines of business, we should notice something of the methods of keeping records of the poultry yard.

We may divide the records of poultry into two general classes: First, from a commercial standpoint which deals with profit and loss on a commercial basis, and second, records from a breeding standpoint which deals with the blood lines of the flock.

Every farmer's wife should keep a record of the number of eggs gathered, number and price of eggs sold, number consumed at home, and amount of feed purchased.

A large calendar which is large enough for this notation by the side of the number of the day is one of the most convenient and practical methods of keeping these records. There is usually enough blank space in the margin for any special notation of any kind. A book where all records of the poultry yard are kept is of course better, but the wife who has all the duties of the household cannot always spare the time to hunt the book to make the notations each day, but if the calendar is located near the egg basket with a pencil tied to a string so it is always in place, there is very little trouble to record each day's record. Then, at the end of the month, these can be recorded in the ledger kept for that purpose.

The breeder who is developing good egg producers or fancy show birds has records of an entirely different nature. In order to develop certain characteristics it is necessary not only to keep a record of the sire and dam, but to pedigree the chicks so that the ancestral line of each and every bird can be traced. In order to do this each bird in the breeding yard should be numbered. Then each hen should be caught in a trap nest so that her number can be placed on the egg when the hen is released from the nest. Then when the egg is incubated each chick should be hatched in a cell to itself and the hen's number which was on the egg can be placed on the baby chick's leg band. We use tiny aluminum bands that can be made larger as the chick develops.

By using a pedigree number system much work can be eliminated because of simplifying the record. For example, we will take pen No. 18. If we use No. 18 on the cockerel's band

and 180, 181, 182, 183, 184, 185, etc., on the hen's bands it will be seen that if an egg bears the number 184 it shows at sight that it is from hen 4 in pen 18 and fertilized by cockerel No. 18.

This not only simplifies the records, but if the chicks wear bands numbered in this way it enables the breeder to know the history of any chick at any time he picks it up without going to the records, and by using a different kind of band each year there is no danger of confusing the old and the young.

In case the numbering of the bands is too great a task or if you haven't the dies for making the numbers, it will be necessary to keep a record of the number on the chick's band together with the numbers of sire and dam.

In keeping trap-nest records in the past four years at the Experiment Station, 385,277 eggs have been recorded.

One naturally asks the question, does not this record work, year after year, become monotonous? I can truthfully say that in my four years' of experience with poultry records that it has not. If you are interested in the work at all the interest and enthusiasm grows from day to day and you are as much excited over the hens that are winning as you would be at a baseball game or a horse race. There is one feature that is more interesting in the egg race than in the other sports. You never can tell how it will end. In the last Egg-laying Contest the winning pen won by an egg, and it took until the last day of the contest to determine which pen would win. The average poultry keeper knows little of record keeping. It is one of the greatest needs of all poultry keepers to be able to tell whether or not his poultry is paying him a profit. The farmer keeps accounts or records of his other stock, but the poultry seems such a little thing that it is often neglected.

There is a saying "that if we take care of the outgoes, the incomes will take care of themselves," but we to be successful poultry raisers must look after both the outgoes and the incomes.

BUILDINGS FOR POULTRY SHOWS.

A building which is suitable for a summer or fall show in connection with a county fair would not be suitable for a winter show.

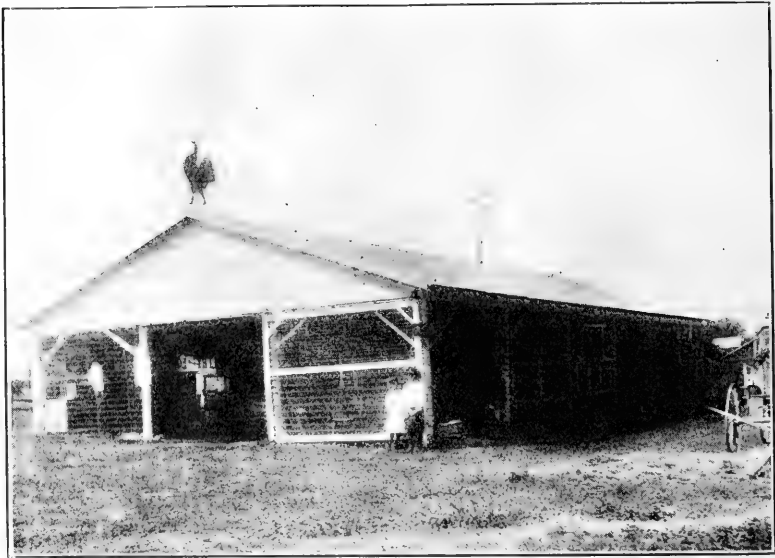


Fig. 26. The poultry building on the California, Missouri, fair grounds.

Fig. No. 26 is a view of the poultry building of the California Fair at California, Mo. This fair bears the distinction of being the oldest county fair in Missouri, and its life is doubtless due to the interest the members have taken in the various departments. This building is considered one of the best in the state for a fall show. It is well built, strong and substantial, yet light and airy, and has a capacity of about 500 birds.

In many parts of the state fall fairs are held, and with them there is usually a poultry show.

In many places a suitable building for the poultry is not always at hand, therefore the show is held in the open. Fig. No. 27 shows a poultry show held in the school yard while the school fair was conducted in the schoolhouse. Most of the birds were exhibited in uniform coops which were made by a local carpenter and sold to the exhibitors.

For a winter show it is necessary to have a building that will protect against the storms. The greatest problem con-

fronting any local organization is to get a room large enough to accommodate the show yet have good light. One of the best arranged rooms observed last year was at Hale, Mo. The show was distinctly local. There were 364 birds in the show. The show was cooped with uniform coops which were built by a local lumber company and rented to the Association, the rent amounting to \$10. The entire room was decorated with crepe paper which made it very attractive.

The arrangement of the room was such that the coops occupied the space around the outside wall while the center was held as clear as possible to accommodate the visitors. Although this was the first show, yet it was very successful.



Fig. 27. A poultry show being conducted in the open at Barnett, Mo.

One of the very important parts of a poultry show is the junior or school children's department.

Fig No. 29 shows the Boys' and Girls' White Plymouth Rock class at Palmyra, Mo., December 16-18, 1915. The boys and girls were furnished settings of eggs from which to raise some chickens, the agreement being that the children were to exhibit a trio at the poultry show, and they were to pay one dollar or one chicken at that time to the one furnishing the eggs.

There were fifty-three trios in the children's department. The White Plymouth Rock class was the largest class. Therefore it is given here.

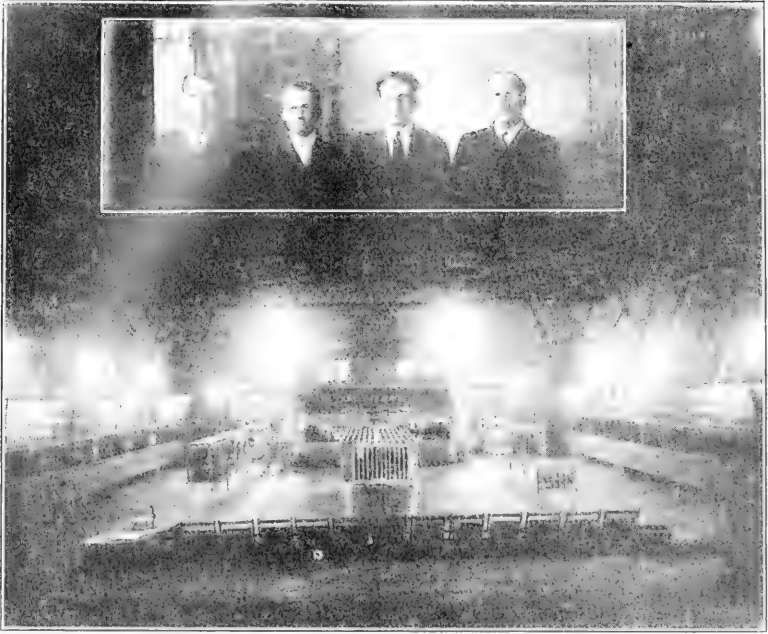


Fig. 28. The first poultry show held at Hale, Missouri, and the men who made it at success.

If the eggs are distributed to the children it is advisable to secure them from flocks where one person can furnish all of that variety for it gives all an equal chance, but if they are furnished by different people, one is apt to have better stock than another, therefore it would not be equal.

It is a very good plan to give the prizes to children on cockerel, pullet, and trio.

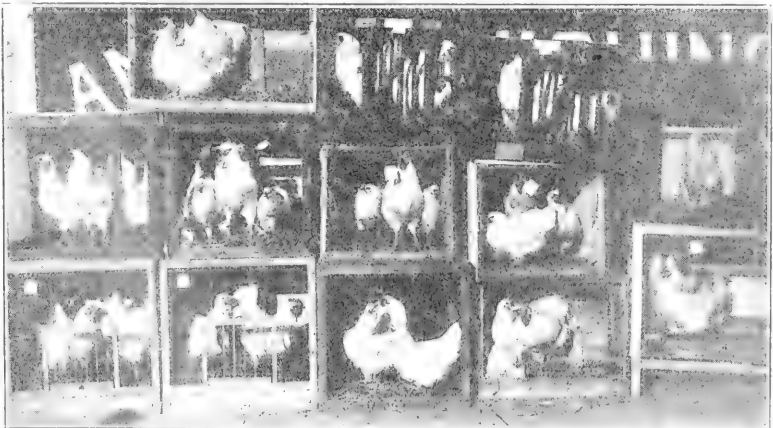


Fig. 29. An exhibit of chickens raised by school children, Palmyra, Mo.

It is also advisable to offer prizes for the best coop built by a boy or girl, and where it can be done, it is a good plan to give prizes to the boys or girls making the best grade from a knowledge of the birds. To illustrate, prizes may be given to the pupils who name and give the best description of the different breeds and varieties in the showroom.

MISTAKES OFTEN MADE.

We believe that with a certain amount of capital a man with some energy and business ability can make a success with poultry as easy as any line of work, but we find that in the poultry business, the same as all other businesses, that some special preparation is of great value. Too often a man spends his life in some other line of work, and when he is old and cannot hold his former position he wants to go into the poultry business, and because of his physical inability and lack of preparation he is apt to fail.

Mistakes are often made in selecting a location, not only the immediate location, but the location relative to markets.

A sandy loam well drained is preferable, and as the fowls' natural home is in the timber, good shade in summer is a great advantage.

As to markets, we find the same principle is true with poultry that is true with dairy and beef cattle, and that is that the dairy farmer should be located near a good market while the beef farmer should be located farther away where land is more plentiful for grazing purposes. The egg farmer should be located close to market, but those living farther from market should grow more meat so that the products can be marketed at one time, which will not require so many trips to market as with eggs.

Crowding is a frequent mistake, which weakens the birds so that disease takes hold readily. In the houses each mature bird should have from three to five square feet of floor space, according to the breed.

A bird eats only when it has light. Therefore plenty of light should be furnished. Then, too, sunlight is nature's disease destroyer, so plenty of sunlight should be furnished to prevent diseases. Many make the mistake of keeping their birds in dark, damp houses.

Air serves the double purpose of carrying oxygen to the lungs and carrying the impurities from the lungs. Therefore

an abundance of fresh air is necessary. A draft of air is as bad or worse than not enough air. The system of ventilation is therefore very important.

Improper methods of marketing are responsible for losses in many cases. All birds should be properly prepared for market by having them properly fattened. Eggs should be graded so far as size and color are concerned. They should also be in neat, attractive containers.

Mistakes are sometimes made in the selection of a breed. Most people have a certain variety they wish to breed and they grow this breed regardless of their location. From a commercial viewpoint, one should select the breed suited to the location, regardless of personal fancies.

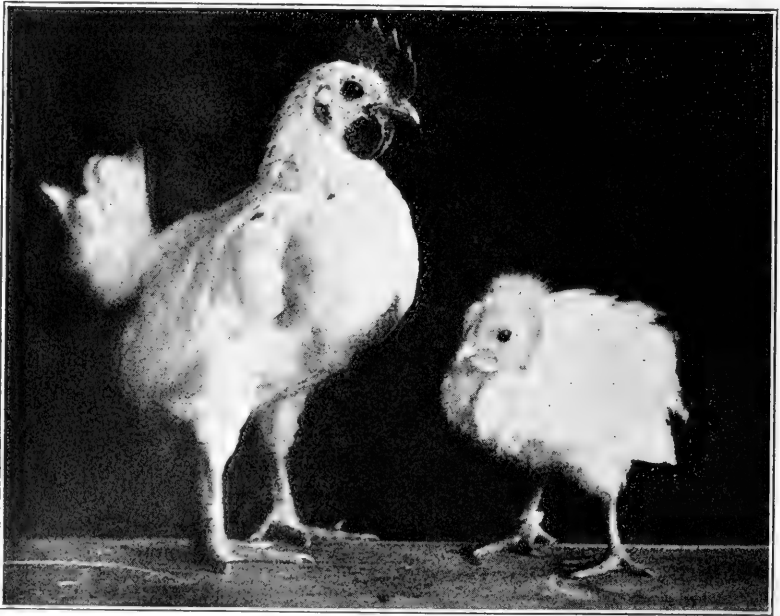


Fig. 30. Two chicks hatched in the same incubator, raised in the same brooder, cared for by the same attendant and all conditions the same. The difference was found to be that the large chick was hatched from an egg laid by a two-year old hen, while the small chick was from an egg laid by a small, immature pullet.

Carelessness, without doubt causes more failures than anything else in the poultry business. Empty feed hoppers, dry water pans, doors open or closed when they should not be and a great many other things which might be classed as carelessness all enter in to determine success or failure.

The poultry business has a great many technicalities, and if handled in a careless manner failure is sure to follow, but with the same care and effort anyone can succeed in the poultry business as easily as any other business; it is as the old saying has it, that success depends upon "the man behind the gun."

THE MISSOURI STATE POULTRY ASSOCIATION AND ITS WORK.

The Missouri State Poultry Association was organized in June, 1892, at a meeting held in Sedalia, Mo., and the following officers were elected:

G. W. Frey, President.

M. L. Andrews, Secretary.

J. F. Rundell, Treasurer.

These officers with Judge C. A. Emry constituted the Executive Board.

The object of the State Association was, first, to interest the poultry breeders that a more progressive work might be done through the State Association which would stimulate and encourage the production of standard bred poultry among the farmers of the state. The Association also had in mind cooperation with the local associations, and these have been the main objects of the State Association from its organization until the present time.

For twenty-three years the State Association has been holding an annual show, and the first annual exhibition was held at Sedalia, Mo., in December, 1892. The judges were Hitchcock, Hughes and Emry.

According to all the available information that we had at that time, the poultry production for the year of 1892 amounted to \$12,000,000, and last year was over \$52,000,000, showing an increase in the twenty-three years of over 400 per cent.

We are at work trying to get a complete history of the State Association from the time it was organized to date, which we plan to publish and send a copy to every member of the State Association, feeling that it will be something that every member will prize. We want to give credit to those who were responsible for the organization of the Association and also to those who have assisted in the work of the Association all these years.

During the year 1914 there were received 4,427 new members and renewals, and in 1915, 3,605, showing a decrease for

1915, but taking everything into consideration the Association had a very good year, and 1916 promises to be the very best year in the history of the Association. The present membership of the State Association is over 4,500.

The Association in 1914 and also in 1915 observed Missouri Hen Day, the first Saturday in March of each year, but on account of weather conditions both years the day was not the success that it was hoped it would be so it was decided to discontinue Missouri Hen Day and observe Fried Chicken Day on September first of each year. This day was a great success on last year, being observed and celebrated in a great many places over the state. We are making greater plans than ever for this year. The object of observing Fried Chicken Day is, first, that it may be a day of fellowship for every person in the state who is interested in poultry; and second, that poultry matters may be discussed and plans made for the advancement of the poultry industry in the state. Members to the State Poultry Association were solicited and a great number added to the list.

The State Association had a great deal to do in securing the passage of the Myers bill, which appropriated the \$10,000 to be used for paying premiums on poultry in every county in the state where a poultry show was held under the auspices of a local poultry association duly organized. This bill has made it possible for a number of counties to hold shows that they could not have done without this aid from the state.

The Association offered a beautiful silver cup to every local association making proper application for same, and this has proven to be of great benefit to the local associations throughout the state. We expect to do the same thing again this year.

A new organization was organized during the State Poultry Show in Joplin December, 1915, which is known as the Federated Poultry Clubs of Missouri. This organization is composed of officials of the local poultry associations throughout the state, and the state has been divided into four districts, each district to have a vice-president. The object of this organization is to encourage closer co-operation between the local associations and assist them in the matter of dates, judges, and cooping, and in any other way that it is possible.

Splendid interest is being shown, and while there may not be a great deal accomplished this year, it is an organization that was needed and should be of great benefit to every local association in our state.

It is the desire of the State Poultry Association to be of all the assistance possible to its members, and if you have any poultry problems you cannot solve, write either the State Association or the Missouri State Poultry Experiment Station, Mountain Grove, Mo., and we will be more than glad to give you all the help it is possible for us to do.

The main object of the Association is not to procure 50¢ from you but rather to promote the upbuilding of the poultry industry in the State, but it needs your help and you can do far more to assist by joining the State Association than by remaining out of it. If you are not already a member, why not identify yourself with the largest poultry association in the United States? You will not only be helping to advance the poultry interests in the state, and we will be in a better position to assist you.

JOPLIN WOMAN HOLDS RECORD FOR MEMBERSHIP CAMPAIGN FOR MISSOURI ASSOCIATION.

Credited with Obtaining Seventy-one Members—Is a Poultry Woman Without a Flock.

Mrs. Mary M. Botkin of Joplin, Mo., holds the 1915 record for most members obtained for the Missouri State Poultry Association with 71.

During the past year she has spent much of her time working up poultry enthusiasm in, and around Joplin, and there are very few persons in that territory who do not know she is a booster for better poultry.

When the Joplin Commercial Club decided to make a bid for the 1915 Missouri State Poultry Show they appointed Mrs. Botkin one of the delegates to present their proposition at the 1914



Fig. 31. Mrs. Mary M. Botkin.

annual meeting of the State Poultry Association in St. Louis.

Several cities were bidding for the show, and there was spirited rivalry for the honor. When she had an opportunity to make her talk she promised that there would be a vigorous campaign made in Joplin for new members if the show was awarded to that city, and later Joplin was selected. The show was held the second week in December, and before that time Mrs. Botkin had turned in 71 memberships.

Although she has no flock at present, she has been a poultry breeder for years. When the fourth annual show of the Southwestern Poultry Association was held in Joplin during the second week in December, 1889, Mrs. Botkin was superintendent and also Joplin representative on the Executive Committee.

In those days she raised Black Langshans, Silver Gray Dorkings, Black and White Polish, and Blue Games.

OFFICERS OF THE MISSOURI STATE POULTRY ASSOCIATION.

L. E. Meyer, President.....	Bowling Green
J. A. Maxwell, Vice-President.....	Fayette
Fred Crosby, Secretary-Treasurer.....	Mountain Grove

LIST OF MEMBERS.

BARRED PLYMOUTH ROCKS.

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 Ropp, Edgar, Clayton.
 Speaddy, Mrs. Miles H., 720 E. 5th St., Sedalia.
 Senter, Bert, Bolivar.
 Sauerbier, Alfred, Lee's Summit.
 Smithson, J. L., Dexter.
 Salzer, Fred, Frisco Bldg, Monett.
 Scott, O. S., Galena.
 Shannon, Mrs. J. T., R. 3, Plattsburg.
 Sharp, Anderson, Quitman.
 Smith, Chas. G., Smith's Oakland Park Yds., Kansas City, Kan.
 Sass, L. T., Rolla.
 Spencer, Mrs. Nathan, Laddonia.
 Schwent, Joseph A., Ste. Genevieve.
 Strange, W. C., R. 1, Smithville.
 Swank, W. M., R. 4, St. Joseph.
 Schaal, Miss Lillian, Lexington.
 Stiggers, Mrs. Amos, Gallatin.
 Smith, Mrs. Chas., Carrollton.
 Stocking, Mrs. C. A., Fletcher.
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 Sexauer, Edw. L., Ste. Genevieve.
 Slayton, Mrs. G. W., R. 4, Lathrop.
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 Sears, R. E., Greenwood.
 Stout, Cleve, Gregory Landing.
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 Scott, Mrs. O. P., R. 20, Chilhowee.
 Strobe, Mrs. Jodie E., Bates City.
 Schrock, J. B., Garden City.
 Sebaugh, H. J., Farmington.
 Scott, Wm. M., S232 Lucille, St. Louis.
 Schaefer, John S., Ste. Genevieve, Mo.
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 Sleyster, Julius, Keytesville.
 Schaumloeffel, Mrs. J. C., Gentry.
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 Scott, Mrs. E. M., Lathrop.
 Strong, J. S., R. 1, Marcelline.
 Scotten, F. E., Bolivar.
 Smith, Curly, Kennett.
 Scott, E., Ridgeway.
 Scott, R. C., Steelville.
 Switzer, Mrs. Mary J., R. R., Hickman's Mill.
 Spillman, Ralph M., Grant City.
 Struble, A. M., Thayer.
 Southgate, Jno. McK., Rolla.
 Scruby, Stanley, Chillicothe.
 Smith, J. R., Canton.
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 St. John, Frank, 814 W. 7th St., Joplin.
 Stanley, J. H., Springfield.
 Schmoock, Mrs. O. H., R. 4, Springfield.
 Seemers, Mrs. G. C., Gordonville.
 Smith Bros., Thompson.
 Story, J. F., Frankford.
 Seward, Lloyd, Revere.
 Sieser, Geo., 625 Lynch, St. Louis.
 Speight, H. A., Richland.
 Schwartz, Henry P., O'Fallon, Ill.
 Stewart, Chas. A., 2605 Hickory, St. Louis.
 Skinner, Mrs. Wm., Laredo.
 Schultz, Wm., 2625 S. 12th St., St. Louis.
 Strickrod, F. B., Aurora.
 Sims, E. M., Union Star.
 Smith, Mrs. Chas., R. 6, Carrollton.
 Stigall, E. L., Niangua.
 Stover, C. A., Ridgeway.
 Suetchen, Mrs. J. S., Dans City.
 Smith, C. C., Mayville.
 Smart, Mrs. A. A., R. 8, Cameron.
 Speck, Wm., Netherlands.
 Sweeney, Jack L., Harrison, Ark.
 Schlessman, L. A., 107 Jackson, Joplin.
 Schultz, H. B., 627 Pearl St., Joplin.
 Schrob, E. H., Cainesville.
 Teamy, Mrs. J. M., Lathrop.
 Sharp, Geo. H., Cameron.
 Tipton, Miss Mary, Barnett.
 Traynor, J. J., 1115 Shawmut St., St. Louis.
 Thompson, M. D., Palmyra.
 Taylor, J. W., Keytesville.
 Thies, E. J., 306 Live Stock Ex. Bldg., Kansas City.
 Thornburg, Roy, R. 1, Moberly.
 Todd, Mrs. F. E., R. 1, Adrian.
 Tyhurst, Jno. E., 1601 East Blvd., Monett.
 Tombs, Mrs. P. A., Bowling Green.
 Todd, James G., Versailles.
 Thompson, John W., 4407 Vista Ave., St. Louis.
 Tucker, Mrs. E. A., Frankford.
 Taylor, J. M., McCune, Kan.
 Tierney, Mrs. J. T., Morse Mill.
 Trippensee, Gus., 406 E. McCarty, Jefferson City.
 Turner, S. K., Carrollton.
 Treon, Ralph, Mtn. Grove.
 Umbarger, Mrs. W. W., Napton.
 Urban, Mrs. W. C., Cameron.
 Utis, Geo. S., 4745 Idaho Ave., St. Louis.
 Ulrick, Geo., 1459 Hamilton, St. Louis.
 Vedder, Wm., Cape Girardeau.
 Vassler, E. M., 8471 Emma St., St. Louis.
 Voss, Henry V., Jennings.
 Vernold, Mrs. Fred, Dalton.
 Von Grep, H. J., Dixon.
 Vollmer, Ernest, 967 Switzer Ave., St. Louis.
 Vassmer, John, Excelsior Springs.
 Vett, Mrs. Rudolph, R. 5, Salisbury.
 Van De Mark, Mrs. W. A., Lamar.
 Van Ausdall, Joseph, Skidmore.
 Victor, Wm. Henry, Cartersville.
 Vedders, Wm., 2nd and Arsenal, St. Louis.
 Vellner, Mrs. F. J., 2845 Lemp Ave., St. Louis.
 Walmsley, Mrs. J. W., Clarksville.
 Worland, Mrs. Annie E., Hagers Grove.
 Wiekham, C. L., Kennett.
 Wild, R. S., Cowgill.
 Williams, W. H., Poplar Bluff.
 Wade, Mrs. John S., R. 7, Columbia.
 Willis, Mrs. W. L., Norborne.
 Ware, S. O., 3105 Walter, Maplewood.
 Warren, Mrs. G. D., R. 4, Carrollton.
 Wilhoit, Jewell, Holt.
 Willeford, Mrs. E. L., Richmond.
 Waddell, P. S., Louisiana.
 Waller, C. C., Vermont.
 Waller, Mrs. W. P., R. 2, Bunce-ton.
 Wernle, Chas., 5200 Terry Ave., St. Louis.
 Wares, Mrs. Gus, LaPlata.
 Wenon, G. A., Kimmswick.
 Wilse, Fred F., 4137 Penrose St., St. Louis.
 Wheaton, W. F., Dresden.
 Wolf, Fred F., 1414 E. Prairie, St. Louis.
 Wolf, Chas. R., Aurora.
 Williams, Mrs. W. E., Keytesville.
 Weaver, L. F., R. 1, Dexter.
 Warren Bros., Meadville.
 Wickhorst, Edgar, 1047 Forest, St. Louis.
 Warren, R., 2057 Robberson, Springfield.
 Watson, J. M., Hazel Green.
 Welch, Mrs. M. C., R. 5, Salisbury.
 Williams, S. E., Eldorado Springs.
 Wales, Mrs. J. M., 1920 N. Grant St., Springfield.
 Williams, R. A., New Cambria.
 Williamson, Mrs. Geo., R. 1, Gorin.
 Walker, Mrs. Earnest, Armstrong.
 Wyre, J. A., box 111, R. 18, Windsor.
 White, L. B., 3403 Walnut, St. Louis.
 Woodworth, Mrs. Fannie B., Maplewood.
 Wilson, Mrs. May, Ridgeway.
 Watts, Mrs. Harriett, Whiteside.
 Wills, Jay, St. Charles.
 Winton, Mrs. Dora, R. 8, Cameron.
 Weissgerber, Wm., 1910 Clara, St. Louis.
 Walker, Mrs. Hugh, Standish.

Yost, Mrs. V. V., 3207 S. Benton, Kansas City.
 Yankee, Miss Mary, Lone Jack.
 Yankee, Mrs. R. E. L., Lone Jack.
 Yows, Mrs. J. A., Barnett.
 Yeager, Will, Dexter.
 Zinge, C. L., Canton.
 Zumbum, L. B., Aurora.

WHITE PLYMOUTH ROCKS.

Allen, E. A., Craig.
 Allen, Robt. S., Clinton.
 Albert, Geo. B., Koshkonong.
 Bray, Wm. H., Pine Lawn.
 Bussell, Mrs. L. H., Mt. Moriah.
 Boheling, Henry, Jr., Cole Camp.
 Boehm, Chas. F., Richmond Heights.
 Bardgett, Joe, 2840 N. Kings Highway, St. Louis.
 Bowen, J. H., Rolla.
 Behrens, Albert, O'Fallon, Ill.
 Bezenberger, Frank, St. Charles.
 Bailey, Col. Robt., LaPlata.
 Bock Andrew, Bourbon.
 Boswell, Jesse V., R. 9, Springfield.
 Bangert, Mrs. Henry, Pattonville.
 Berthold, Jao. C., 374 S. Taylor, Kirkwood.
 Bowen, Thomas, Queen City.
 Brace, Penn, Paris.
 Brancort, Edmund, 5357a Ridge, St. Louis.
 Briston, E. H., care of A. Reboni Fruit Co., Springfield.
 Bennett, S. L., 8517 Clifton, St. Louis.
 Blair, W. R., 473 Lakewood, Webster Groves.
 Bell, Mrs. Geo. T., Lees Summit.
 Bredenbeck, Wm., 509 Lindenwood, St. Charles.
 Brinkman, Edw. K., 4326 John Ave., St. Louis.
 Boone, R. A., 1614 Kentucky, Louisiana.
 Bangert, Mrs. Henry, Pattonville.
 Biggerstaff, Z. F., Edgerton.
 Coons, Henry, Orrick.
 Church, Miss Elva, Butler.
 Cordell, A. S., Quitman.
 Cherry, W. A., Adrian.
 Carroll, Mary Ruth, R. 1, Louisiana.
 Coleman, Rev. Jas. H., Brinkley, Ark.
 Culyer, Mrs. R. E., 2818 Frederic Blvd., St. Joseph.
 Chiles, Miss Janie, Independence.
 Coatsworth, Mrs. Frank, Mexico.
 Carrigan, John, St. Charles.
 Condict, W. E., Liberal.
 Cline, Mrs. Walter, Versailles.
 Chaney, Mrs. O. S., 2127 Jackson, Joplin.
 Crooks, Carl L., Unionville.
 Denny, T. J., Golden City.
 Dermott, Mrs. C. B., Lamar.
 Davis, Mrs. Sam, Cowgill.
 Duff, Mrs. J. E., Bates City.
 Davidson, C. B., Unionville.
 Dietrick, Henry M., Monett.
 Dills, Mrs. R. L., Fairfax.
 Davis, H. F., Ozark.
 Duncan, Jas., Lineville, Iowa.
 Decker, F. A., R. 2, Rolla.
 Davis, Mrs. J. O., Hickory.

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 Esser, L. A., Blackwater.
 Emison, Mrs. L., Wellington.
 Ewing, C. M., Nevada.
 Evans, G. W., Sikeston.
 Eubank, C. G., Madison.
 Frame, J. W., R. 1, Springfield.
 Fellwack, Frank, Cole Camp.
 Freudenstein, C. Fred, 5145 Cabanne, St. Louis.
 Flintoft, Mrs. Frank, Webster Groves.
 Fitzgerl, Ed J., R. 34, Pittsville.
 Fette, Mrs. Wm., Alma.
 Fritts, Mrs. K. B., R. 2, Gerald.
 Fisher, Mrs. E. G., King City.
 Fischer, Robt., R. 6, Webster Groves.
 Farrow, C. G., box 323, Bonne Terre.
 Fogle, Russell, Palmyra.
 Gragery, Roy, Washington.
 Gilbert, Clarence F., Harrisonville.
 Goodson, Mrs. S. J., New Cambria.
 Glass, A. E., Harrisonville.
 Goodwin Poultry Farm, Marshall Ave. and Wellston Sta., St. Louis.
 Greening, A. C., Niangua.
 Gardner, M. B., Aurora.
 Graves, W. G., Quitman.
 Glassier, John F., R. 1, Commerce.
 Hake, Armin J., Washington.
 Hake, Edwin H., Washington.
 Hill, Mrs. Ida S., Humphreys.
 Holcomb, E. W., 819 W. Vine St., Poplar Bluff.
 Hones & Ehrhardt, Salisbury.
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 Hull, J. W., Grant City.
 Henson, Boyd, King City.
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 Hall, W. Albert, Greenfield.
 Hoering, H. E., 917 W. Daugherty, Webb City.
 Hammond, Mrs. Clarence, Odessa.
 Horn, T. L., 301 Bonhomme, Clayton.
 Hurst, Robt., Washington.
 Harris, T. C., Windsor.
 Hall, Edw. T., care of Purina Mills, St. Louis.
 Heathman, Miss Mattie, Rhinehart.
 Henson, L. A., King City.
 Hower, C. M., Savannah.
 Hooker, Mrs. J. B., Mercer.
 Hyslop, Henry, Dexter.
 Hawkins, L. W., Canton.
 Hornsby, T. P., 424 Foote Ave., Webster Groves.
 Hachtel, George, Canton.
 Holland, Mrs. Jessie E., Montrose.
 Hogan, D. A., 4246 Shaw, St. Louis.
 Hull, Virginia, Grant City.
 Hudson, H. K., 3964a Lucky St., St. Louis.
 Harman, Wm. E., Sullivan.
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 Ives, E. L., Brandsville.
 Ireland, J. M., Bolivar.
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 Johnson, Chas. A., 2410 Jackson St., St. Joseph.
 Jones, M. L., Frankford.

- Johnson, W. H., Cor. Ruby and Liberty Sts., Independence.
- Jones, Alfred, Kirksville.
- Johnson, Mrs. Oscar, 38 Portland Pl., St. Louis.
- Johnson, C. P., Callao.
- Jones, Sinton, R. 3, Norborne.
- Kennedy, Mrs. C. L., 527 Kentucky Ave., Joplin.
- Kneer, J. C., 1304 Sylvania, St. Joseph.
- Kraft, John H., R. 1, Hematite.
- Knapp, Geo. F., Pendleton.
- Kraxberger, W. A., Dalton.
- Kuffman, J. A., Abilene, Kan.
- Kusterer, Geo. J., Webb City.
- Kern, Geo., Clayton.
- Kinder, A. J., Cuba.
- Kossman, A. M., box 456, Washington.
- Kimeman, J. H., Fredericktown.
- Labohn, C. J., Lincoln.
- Lester, W. S., Monett.
- Lonsberry, W. P., Whiteside.
- Luff, Geo. H., R. 1, box 13-B, Jefferson City.
- Loest, L. C., King City.
- Love, R. H., Eldorado Springs.
- Leinker, George, 1908 Hunt Rd., Wellston.
- Le Gear, L. D., Kirkwood.
- Larkin, C. J., R. 5, box 156, Joplin.
- Mohler, D. C., Bedford, Ia.
- Mueller, P. J., 3625 Liermann Ave., St. Louis.
- Martin, Joe M., West Plains.
- Massey, Mrs. James, R. 35, Florissant.
- Moreau, Edw. B., Ste. Genevieve.
- Martin, Isaac N., Lamar.
- Moore, Miss M., 4224 John, St. Louis, Mo.
- Manima, J. C., Bronson.
- Mohnkerm, Wm., box 624, Poplar Bluff.
- Meyer, John, 4952 Lansdowne, St. Louis.
- Merrill, R. H., Greenfield.
- Mitchell, E. M., Brighton.
- Magee, John J., 7500 Woodland Ave., Kansas City.
- Moberly, J. R., 1141 E. Division, Springfield.
- Meyer, C. A., 3325 Helen Ave., Hannibal.
- Mickley, C. M., West Plains.
- Murdock, W. R., Los Angeles, Cal.
- Mattox, W. B., Sullivan.
- Miller, W. W., Kennett.
- McKinley, Dr. W. E., Grant City.
- McCarthy, Geo. E., Passaic
- McDonald, W. A., Eldorado Springs.
- McFadden, G. F., Kennett.
- McCullah, C. E., Galena.
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- McShane, Mrs. H. E., Verona.
- McCarron, Jeannett, box 6, Overland.
- Naber, Miss Tillie, Louisiana.
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- Newcomb, Chas. L., 102 Mason, Webster Groves.
- Nolte, Raymond, Concordia.
- O'Reilly, Chas. F., 610 Lilac, South Webster.
- Oates, Mrs. W. S., R. 4, Adrian.
- Oberhelman, Miss Olinda, Wellington.
- Porter, R., Paris.
- Pitman, Fred G., Gorin.
- Porterfield, E. D., Lock Springs.
- Puffer, F. G., 3006 Askew Ave., Kansas City.
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- Phelps, Geo. H., R. 6, Richmond.
- Paulsell, Frank W., Rolla.
- Palmer, W. B., Bolivar.
- Rouse, E. J., Paris.
- Roberts, S. O., Centralia.
- Redman, E. L., Craig.
- Roth, W. H., Clayton.
- Rush, Mrs. Louise, 8000 Caroline, Maplewood.
- Rickey, J. C., Clarence.
- Rohr, Silas, Vandalia.
- Rock, John F., O'Fallon, Ill.
- Radloff, Chas., 509 W. 3rd St., Coffeyville, Kan.
- Ross, Mrs. Jas., Mt. Moriah.
- Roop, Geo. C., Conway.
- Robertson, E. A., Grant City.
- Smith, Emory, Monett.
- Saurbrier, Alfred, Lees Summit.
- Senter, Bert, Bolivar.
- Smith, Wm. P., Mexico.
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- Stevens, Mrs. L. N., R. 4, Harrisonville.
- Springer, Rolla J., R. 2, Bourbon.
- Spillman, Mrs. E. H., Nevada.
- Stroemer, Oswald, Brunswick.
- Stamper, E. P., Keytesville.
- Snyder, W. S., box 42, Kirkwood.
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- Shumard, J. W., Ridgeway.
- Stone, D. O., Monett.
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- Sallee, Roy, Mtn. Grove.
- Smith, J. R., Canton.
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- Schlueter, F. G., Pevely.
- Scotten J. E., Prairie Hill.
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- Stephenson, W. A., Eldorado Springs.
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- Thomas, R. E., Maryville.
- Tisdale, Dr. C. S., Joplin.
- Troxel, Dr. B. M., Ridgeway.
- Volkler, Lawrence, Bertrand.
- Vories, R., 22nd and Duncan, St. Joseph.
- Vores, Dr. C. P., Unionville.
- Winn, C. H., Louisiana.
- Wesner, C. E., and Son, Windsor.
- Williams, Mrs. M. B., Salisbury.
- Watkins, Mrs. K. A., Humphreys.
- Willis, Mrs. W. L., Norborne.
- Wheeler, J. E., Walnut Grove.
- Wheeler, J. P., Greenfield.
- Wright, L. A., R. F. D., Atlanta.
- Ward, D. J., Severance, Kan.
- Witten, T. N., Trenton.
- Wegener, Otto, 3425 Caroline St., St. Louis.
- Wilbur, W. S., West Plains.
- Wiswell, Ed., R. 1, Peculiar.
- Warner, Mrs. B. L., 7643 Hiawatha, St. Louis.

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 Watkins, Chas., Orrick.
 Wonselter, Mrs. S. I., Cowgill.
 Wright, H. B., Independence.
 Wann, H. B., 214 Holland, Springfield.
 Yankee, Mrs. Sam, Lone Jack.
 Zimmerman, Otto, 8415 Mich. St., St. Louis.

BUFF PLYMOUTH ROCKS.

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 Adams, Richard, Jr., Coffman.
 Brockman, T. W., Salisbury.
 Bettick, John H., R. 3, Joplin.
 Blinn, C., Neosho.
 Baker, G. B., Callao.
 Bogart, James W., Orrick.
 Branstetter, Mrs. W. V., Wellsville.
 Baker, C. R., Abilene, Kan.
 Coffman, Mrs. Newton, Rosendale.
 Cave, Mrs. J. M., Lone Jack.
 Clark, W. N., Moberly.
 Carter, J. O., West Plains.
 Coons, Mrs. H. J., R. 2, Stephens.
 Delventhal, E. L., Warrenton.
 Elley, Mrs. L. H., R. 2, Columbia.
 Elliott, Thos. B., R. 29, St. Louis.
 Eckelman, W. F., 5459 Alabama, St. Louis.
 Frame, J. W., R. 1, Springfield.
 Ferguson, Mrs. B. K., Burlington Junction.
 Ford, O. J., 601 Hamilton, Neosho.
 Glore, J. R., Centralia.
 Goodman, Mrs. Jennie, Barnett.
 Gordon, V. D., Atlanta.
 Grubbs, Mrs. J. W., Hutton Valley.
 Glass, A. E., Harrisonville.
 Griffin, W. Z., R. 8, Butler.
 Groves, Mrs. D. M., Maitland.
 Herring, E. M., West Plains, Mo.
 Harmon, Mrs. A. P., R. 1, Granby.
 Hainline, Mrs. Geo., Eldorado Springs.
 Hostetter, Mrs. Guy, Frankford.
 Inman, E. H., Fredonia, Kan.
 Jones, Mrs. Edd., Callao.
 Johnson, Waldo P., Jamestown.
 Kirchner, Frank, Otterville.
 Krohn, Mrs. John F., Boonville.
 Luscher, Mrs. Sterling, Salisbury.
 Liermann, John H., 4302 S. Compton, St. Louis.
 Last, R. L., New Cambria.
 Larmer, Robt., Stanberry.
 Love, Dr. W. S., Bertrand.
 Lightcap, W. H., Raymore.
 Laffoon, L. L., Sarcouxie.
 Livengood, Mrs. T. R., Elmo.
 Mason, H. P., Fayette.
 Mathieson, Mrs. Sallie, Bosworth.
 Norris, Boyd G., Fayette.
 Neal, J. W., Sedalia.
 Nicholas, Sidney A., Waterloo, Iowa.
 Neel, Mrs. R. A., Callao.
 Orton, E. D., 1718 Picher, Joplin.
 Porter, Mrs. Frona, Barnett.
 Powell, Mrs. E. B., Higginsville.
 Pickett, Mrs., Holliday.
 Parsons, S. O., Bucklin.
 Pfeiffer, E. S., Green City.

Robinson, F. P., Maryville.
 Robison, W. S., Fayette.
 Rudy, Mrs. Wm., Tipton.
 Rennal, Lewis Hale, Shelbina.
 Sentenne, J. H., Kirkwood.
 Sloss, Jas. L., 45 S. Rockhill Rd., Webster Groves.
 Spillman, Ralph M., Grant City.
 Sisson, Mrs. H. G., Frankford.
 Uptergrove, Mrs. Bertha, Barnett.
 Walters, Mrs. D. G., R. 7, Abilene, Kan.
 Wolf, Geo. W., 803 N. 5th St., St. Charles.
 Wilkinson, Hugh D., Nowata, Okla.
 Weitz, Mrs. Geo., Boonville.

PARTRIDGE PLYMOUTH ROCKS.

Berry, C. F., Cole Camp.
 Baker, Mrs. J. H., R. 1, Butler.
 Bullock, Wm. M., Belton.
 Bowles, Leo, St. Charles.
 Boyer, Harve, Eldorado Springs.
 Brown, Ed M., R. 2, Greenwood.
 Churchill, H. C., Windsor.
 Crooks, W. H., Trenton.
 Chaney, Geo. W., box 242, Osceola.
 Clements, W. R., Louisiana.
 Collins, E. G., Vandalia.
 Dunham, J. W., Eldorado Springs.
 Daughters, G. S., R. 4, St. Joseph.
 Dean, Mrs. Page, Carrollton.
 Frear, Lawrence, Monett.
 Fowler, John S., Cole Camp.
 Fagen, Oscar, Cole Camp.
 Goodson, Mrs. S. J., New Cambria.
 Giles, Robt., Fairfax.
 Hemmel, Jos. L., 931 W. High, Jefferson City.
 Hadley, A. M., R. 1, Swedeberg.
 Heucker, Fred, Bunceton.
 Howell, Geo. A., 755 Guy St., Springfield.
 Kulage, D., 4124 Pa., St. Louis.
 Lehnen, F. D., Wellsville.
 Morgenstern, Ferd, O'Fallon, Ill.
 Morton, Robt. L., Webster Groves.
 Murphy, Miss Ella, McMullin.
 McGinnis, Thos. W., Louisiana.
 Nelson, W. C., Cole Camp.
 Neidenjohn, Wm., California.
 Rutter, E. H., Clarence.
 Scott, E., Ridgeway.
 Sparlin, Halley, Seneca.
 Smith, Geo G., Fayette.
 Truttman, Frank, Trenton, Ill.
 Vandiver, Geo. W., Orrick.
 Webster, N. B., Keytesville.
 Walden, Wm., 1202 Lindell, Hannibal.

COLUMBIAN PLYMOUTH ROCKS.

Baumgartel, A. G., 537 Coit Ave., N. E., Grand Rapids, Mich.
 Plant, Sam, Clayton.
 Irvine, Mrs. J. M., Bowling Green.

SINGLE COMB RHODE ISLAND REDS.

Alderton, Percy E., Ferguson.
 Alt, Mrs. G. W., Norborne.
 Aubertin, Wm., 601 S. Broadway, St. Louis
 Acres, Mrs. Frank, Galena.
 Armstrong, C. F., Overland.

- Allen, Ethan, Harrisonville.
 Archer, Mrs. Geo., Green City.
 Anchors, A. L., Nevada.
 Buford, J. B., 5335 Labadie, St. Louis.
 Buckner, W. J., Macomb.
 Bowman, J. J., Bonne Terre.
 Butler, W. C., R. R. 2, Liberty, Mo.
 Benz, Fred A., Sedalia.
 Barnett, Arthur B., 4950 Tiemann Ave., St. Louis.
 Bogue, Mrs. Jake, Frankford.
 Baumgardner, Mrs. A. D., Belton.
 Blunt, Alex, Springfield.
 Brackey, Jack, Chillicothe.
 Burton, Mrs. J. C., St. James.
 Barnard, Lem, Rogersville.
 Banks, S. G. Eldorado Springs.
 Bilby, Slacker, Quitman.
 Baxter, Mrs. J. R., Bolivar.
 Baron, Dr. Jules, Pevely.
 Brookford Poultry Yards, 1514 Elmwood Ave., Kansas City.
 Butler, C. R., Canton.
 Baldwin, E. L., Dexter.
 Braden, Jno. H., Amsterdam.
 Bowman, Mrs. Jennie, West Plains.
 Blanchard, W. E., 5004 King Hill Ave., St. Joseph.
 Bloomer, Mrs. J. A., Ash Grove.
 Bufford, Mrs. John, Eolia.
 Berthold, Jno. C., 374 S. Taylor, Kirkwood.
 Bradbury, Mrs. Clara, Pittsville.
 Buckingham, F. M., Kirksville.
 Buckley, Mrs. T. J., Lamonte.
 Ballagh, W. T., Nevada.
 Bastian, J. B., and Sons, Neosho.
 Bowels, A. S., Wellsville.
 Bailey, Wm. T., Orrick.
 Boehl, Wm. F., 4515 Morganford Rd., St. Louis.
 Bryant, Mrs. Jodie, Wellington.
 Baldwin, B. H., Leasburg.
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 Norman, C., Dexter.
 Nelson, Newton, Tipton.
 Nelson, H. C., Richland.
 Niemann, Louis, Columbia.
 Neiderhuth, Rev. Otto, Truxton.
 Norfolk, Clifford, R. F. D., New Cambria.
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 Burton, Mrs. J. C., St. James.
 Benn, C. H., Frankford.
 Brownsberger, Mrs. A. W., Montrose.
 Bock, Andrew, Bourbon.
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 Brodie, C. I., Catawissa.
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 Bradshaw, J. D., Barnett.
 Black, Mrs. Frank, Orrick.
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 Adams, Clarence W., Maxwell, Ill.
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 Conrad, Carl L., Greenwood.
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- Cashion, A. V., Perryville.
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 Harper, W. H., Bertrand.
 Halley, J. M., Keytesville.
 Hendricks, Lee, R. 3, Billings.
 Hutton, S. J., R. 1, Bogard.
 Hammers, Claude, Hale.
 Jones, W. O., 2021 Penn Ave., Joplin.
 Johnson, B. B., R. 2, Springfield.
 Kirkland, W. F., R. 5, Paris.
 Kavanaugh, Mrs. Lelah, Musselfork.
 Latimer, C. E., Frankford.
 Lehnen, F. D., Wellsville.
 Leslie, Mrs. J. T., Monticello.
 Leonard, J. W., Southwest City.
 Marton, Mrs. J. W., Frankford.
 Meyer, W. A., Bowling Green.
 Meyer, L. E., Bowling Green.
 Magruder, S. G., R. 2, Armstrong.
 Meyer, Edw. C., California.
 Morrison, S. A., Green Castle.
 Morine, S. F., Rolla.
 May, Chas., Dexter.
 McCue, Joseph, Dexter.
 McBride, Francis J., Chillicothe.
 Nay, Mrs. Anna, Wheeling.
 Pritchett, Mr. and Mrs. O. R., Frankford.
 Pigg, Chas., Orrick.
 Purdy, J. A., Conway.
 Pigg, Mrs. Wm. L., Orrick.
 Reding and Clark Feed Store, Joplin.
 Richardson, J. J., Windsor.
 Staples, Mrs. Jas. A., Lamonte.
 Schellenbarger, O. M., box 54, Marionville.
 Steiman, H. C., Dalton.
 Stalling, Mrs. Geo., Wellington.
 Sisk, J. A., 6932 Harney, St. Louis.
 Smyth, Mrs. Mattie, New Hampton.
 Stagle, Mrs. W. H., R. 7, Bolivar.
 Tull, Rosie, R. 1, Walker.
 Towns, Mrs. W. F., Bethany.
 Thweatt, G. E., Greenfield.
 Tanner, Harrison, Richland.
 Wing, Logan E., 2601 Duncan, St. Joseph.
 Weideman, A. W., Eldorado Springs.
 Wilshire, Mrs. Mollie, R. 3, Buffalo.
 White, Elmer J., Sorrell.
 Zimmer, E. G., 5439 Woodland, Kansas City.
 Zimmerman, J. C., 3110 Francisco, Joplin.

WHITE LANGSHANS.

Berger, Mrs. Henry, Dalton.
 Broekschmidt, Henry, Freistatt.
 Claypool, Virgil, Pearl.
 Caseldine, Mrs. J. O., R. 1, Braymer.
 Farnsworth, A. A., Marble Hill.
 Farnsworth, Ernest, Marble Hill.
 Kirkland, W. F., R. 5, Paris.
 Lowe, Mrs. C. D., R. 1, Blue Springs.

LIGHT BRAHMAS.

Allen, E. A., Craig.
 Alley, Mrs. J. T., Mercer.
 Bailey, S. P., Versailles.
 Barrow, Mrs. D. M., R. 3, St. Joseph.
 Bond, Mrs. W. R., Grant City.
 Belden, F. H., Jr., Springfield, Mass.
 Cheesman, Mrs. Lou, Tina.
 Daniels, C. R., Ridgeway.
 Derr, H. B., Sikeston.
 Enderle, Adolph, R. 5, Salisbury.
 Fisher, Mrs. Daisy, Hermitage.
 Ferguson, O. J., Fredericktown.
 Filkin, W. W., 3800 Wyoming, St., Kansas City.
 Fawcett, C. H., and Son, 737 S. Grant, Springfield.
 Griffith, Mrs. E. S., R. 1, box 27, Roscoe.
 Gillmore, Mrs. W. W., Madison.
 Georges, E., 2529 Ada Ave., Jennings.
 Hillagus, Sam, Neck City.
 Hayes, Mrs. Benj., Salisbury.
 Hoff, Mrs. Margaret, Stockton.
 Hanly, P. L., Mexico.
 Hadin, Mrs. Ray, Frankford.
 Hammond, Grant, 6943 Lilburn Ave., St. Louis.
 Jones, W. H., Burlington Jet.
 Jones, Mrs. S. W., Frankford.
 Kellam, Dana, Lathrop.
 King, Hugh T., Creighton.
 Kincaid, Mrs. Dorcas, Stoutsville.
 Morrison, Mrs. J. E., R. 1, Blue Springs.
 Mankin, E. C., 1122 Cherry St., Kansas City.
 Pool, Chas., Piedmont.
 Roberts, C. A., R. 3, Callao.
 Robinson, Mrs. W. G., Bowling Green.
 Roelofson, J., Maryville.
 Roberts, Jno. W., New Cambria.
 Rector, Mrs. W., 335 S. Main, St. Charles.
 Russell, Mrs. H. B., 7271 Old Manchester Rd., Maplewood.
 Smith, Mrs. S. A., Rolla.
 Spatts, N. H., R. 3, Norborne.
 Smith, Perry, Pittsville.
 Schroeder, Wm., Canton.
 Sackman, Miss Fannie, Cowgill.
 Wilson, Ben, Essex.
 Wright, C. T., R. 1, Stoutsville.
 Wilmsmeier, Louis C., 8661 N. Broadway, St. Louis.
 Walkup, Mrs. J. L., Wheeling.
 Yowell, John Y., Rolla.

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BUFF COCHINS.

Bryan, Byrd, Mercer.
 Donovan, W. H., Frankford.
 Ewing, Joe, Gorin.
 Gossow, Dr. A. A., St. Charles.
 Graves, Miss Bessie, Kirksville.
 Haskill, L., Hartshorn.
 Hudson, Frank, Moundsville.

Inman, E. H., Fredonia, Kan.
 Kendall, O., Neck City.
 Powell, W. L., 4742a Vernon Ave., St. Louis.
 Rock, E. F., Montrose.

PARTRIDGE COCHINS.

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 Davis, Albert, 2015 Lyon, Springfield.
 Friemyre, A. D., Eldorado Springs.
 Freece, C. B., Cuba.
 Hanna, Robt., 4230 Osceola St., St. Louis.
 Jones, Wm., 201 E. Commercial, Springfield.
 McMullin, Leonard, Sikeston.
 Prettyman, Geo., Sr., Fairfax.
 Saches, Edw., Brunswick.
 Weihe, Gustav H., Florissant and Jennings Rd., St. Louis.

WHITE COCHINS.

Kendal, O., Neck City.

SINGLE COMB BLACK MINORCAS.

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 Blanke, O. W., 4408 Chouteau, St. Louis.
 Bogue, Mrs. Jake, Frankford.
 Blunt, Alex, Springfield.
 Brauner, Wm., 2151 E. Warne, St. Louis.
 Berry, Jas., Minnith.
 Brown, Pratt, R. 2, Decatur, Ark.
 Betyles, Dindo, R. 4, Carrollton.
 Coffman, R., Minnith.
 Caldwell, Earl J., Lockwood.
 Cartwell, G. D., Brandsville.
 Dyer, Brown, R. 2, Carrollton.
 Davidson, Evert, Elkland.
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 Kernick, O. E., care of car barns, Springfield.
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 Shoemaker, Mrs. S. M., Eldon.
 Timonds, H. W., Lamar.
 Tucker, Mrs. J. D., R. 4, Carrollton.
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 Walters, Edwin, Poplar Bluff.
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 Haseltine, Mrs. Maud T., R. 7, Springfield.
 Shoemaker, Mrs. S. M., Eldon.
 Toomer, Mrs. A. H., Springfield.
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 Prall, Geo. V., 220 N. Main St., Hope, Ark.

ROSE COMB WHITE MINORCAS.

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 Fredericks, H. S., R. 6, Nevada.
 Girton, W. H., R. 1, Carterville.

SINGLE COMB BUFF MINORCAS.

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 Sneed, T. Wilson, 2846 Locust, St. Louis.
 Woodhouse, J. W., R. 6, Nevada.

ANCONAS.

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 Brown, A. W., Platte City.

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 Brown, Andy, Platte City.
 Bevans, T. W., Canton.
 Brashear, Frank, E. St. Louis, Ill.
 Conner, Bert, Ft. Smith, Ark.
 Comer, W. A., Nevada.
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 Ellis, J. B., R. 3, Springfield.
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 Miller, W. W., Kennett.
 McGee, John DeSoto.
 McCutchen, Mrs. W. W., Campbell.
 Nowlen, Mrs. J. J. R., 316 Conner, Joplin.
 Nelson, Newton, Tipton.
 Nollan, Miss Meta, R. 6, Webster Groves.
 Nix, F. E., Rogersville.
 Owens, Mrs. J. B., Weaubleau.
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 Patterson, Lovell, Tipton.
 Rose, Mrs. Daisy, Bois D'Arc.
 Schmidt, Dr. R., Hannibal.
 Schrieman, Dr. F., Concordia.
 Steele, John J., Mexico.
 Standley, Oscar F., Bolivar.
 Schmidt, Miss Georgia, Tipton.
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 Teaney, E. G., Olney, Ill.
 Waldschlager, Harry, Frankford.
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 Wood, Mrs. J. W., Montgomery City.

CORNISH.

Baldwin, W. E., Stanberry.
 Cowgill, Henry, Lamar.
 Corder, P. K., Greenwood.
 Crone, H. E., Tipton.
 Curtis, John, R. 9., Carrollton.
 Davis, Albert, 2015 Lyon, Springfield.
 Dines, J. B., Fredericktown.
 Fry, F. M., Tipton.

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 Graves, Judge W. W., Jefferson City.
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 Hamel, Gust. J., DeSoto.
 Hyde, M. E., Niangua.
 Jones, J. Edgar, Quitman.
 Jones, R. L., New Cambria.
 Land, A. J., R. 4, box 101, Neosho.
 Lansdowne, Dr. Gaylord, Louisiana.
 Morgan, J. E., Warsaw.
 McClure, Max H., Webster Groves.
 Reed, J. Q., 2014 Boonville, Springfield.
 Stigall, E. L., Niangua.
 Stone, W. C., Marshfield.
 Tapley, H. W., Arcadia.
 Thompson, Dolph, Dexter.
 Thompson, Adam, Amity.
 Templeton, O. O., Bismarck.
 Worthington, F. G., Neosho.

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 Gilliland, C. C., LaPlata.
 Harris, Fred H., Chillicothe.
 Johnson, Mrs. Kate, R. 2, Salisbury.
 Miller, Lizzie and Frances, Higbee.
 Mobry, J. W., Purcell.

CAMPINES.

Boettler, Geo., R. 1, St. Peters.
 Baumgartel, A. G., Grand Rapids, Mich.
 Conrad, C. J., Maryville.
 Caruth, Wm., 726 Sargeant Ave., Joplin.
 Gordon, Elizabeth, Carrollton.
 Garrell, Julius C., Webster Groves.
 Hawkins, C. C., Stanberry.
 Hays, W. B., Bolivar.
 Jacobus, M. R., Ridgefield, N. J.
 Kusterer, Geo. J., Webb City.
 Keeler, Thos., Waverly, N. Y.
 Murry, John, Stanberry.
 McDaniels, Lizzie, Galloway.
 McLean, Mrs. C. H., 235 E. Jefferson, Kirkwood.
 Roberts, Mrs. W. B., Carterville.
 Smith, Mrs. J. O., Frankford.
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 Winkle, C. H., Lamar.

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 Phillips, F. E., Kinloch Bldg., St. Louis.
 Prendergast, Thos., R. 2, Ramsey.
 Tayler, R. W., LaBelle.
 Jackson, J. M., Sedalia.

BUCKEYES.

Baldwin, W. E., Stanberry.
 Errett, H. E., Nevada.
 Ellise, Roy V., Troy.
 Hawkins, C. C., Stanberry.

Northington, Joe, Nevada.
 Tamlyn, E. A., Stanberry.

BUTTERCUPS.

Bryan, Lynn E., 360 Marshall, Webster Groves.
 Brause, Emil, California.
 Lauer, F. W., Queen City.
 Marshall, F. D., 4215 McPherson, St. Louis.
 Mercer, Dr. Ray, Canton.
 Swift, Geo. W., Lamar.
 Waugh, Mrs. J. S., Bosworth.
 Wilson, Joseph, Orrick.

GAMES.

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SUSSEX.

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 Barnes, Jno., Galena.
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 Grimm, Frederick, Webster Groves.
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 Laur, G. L. (Red Sussex), Queen City.
 Landgraf, Fred (Red Sussex), Marissa, Ill.
 Magill, Dr. T. B., 5515 Wayne Ave., Kansas City.
 Morgenstern, Fred, O'Fallon, Ill.
 Stormont, C. B. (S. S.), 4738 Leduc, St. Louis.
 Garrell, Julius C., Webster Groves.

LAKENVELDERS.

Morse, Wm. E., Rolla.
 Standley, Harry, Bolivar.

MISSOURI WHITE FLUFFS.

Conner, Bert, Ft. Smith, Ark.
 Park, C. E., Warrensburg.
 Rice, Mrs. J. D., Hickory.

W. F. BLACK SPANISH.

McComb, C. A., St. James.

BLUE ANDALUSIANS.

Allen, F. R., and Sons, Independence.
 Bias, J. W., Fayette.

BARRED MONARCHS.

German, Jeff. W., 3426 Bales, Kansas City.

W. C. BLACK POLISH.

Ellis, Mrs. J. M., Galena.
 Riel, Geo., 2806 Wyoming, St. Louis.

BANTAMS.

Dewey, R. E., DeSoto.
 Gruenewald, Edw. E. (W. Cochin), St. Charles.
 Graves Bros., (Golden Seabright), R. 4, Jefferson City.
 Henry, Fount, Whiteside (Buff Cochin).
 Henry, J. M., Whiteside (Black Cochin).
 Jacobs, Claude G., 602 W. Clayton, Brookfield (Black Cochin).
 Jenks, A. L., Monett (Golden Seabright).
 Jakerst, Lawrence J., Offenberg (Golden Seabright).
 Jacobs, J. W., St. Charles, (W. Cochin.)
 Kemper, Lyman, 2105 Quincy St., Sedalia.
 Mitchell, W. C., R. 9, Springfield.
 Poigner, H. C., O'Fallon, Ill.
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 Powel, Harry, New Cambria.
 Perdue, Jas. E., 208 S. Prospect, Sedalia.
 Rodgers, S. P., Pine Lawn, St. Louis.
 Schoek, Harold E., St. Charles.

MAMMOTH BRONZE TURKEYS.

Ashbury, Mrs. W. T., Blackwater.
 Barton, Mrs. Joe, Odessa.
 Bennett, Mrs. M. S., Neosho.
 Branch, E. C., Lee's Summit.
 Brown, Mrs. Stont, Windsor.
 Booth, Mrs. Mabel, Richmond.
 Buckley, Mrs. T. J., Lamonte.
 Campbell, Mrs. Ola, R. 1, Dunnegan.
 Cox, Miss Sallie, New London.
 Crockett, Mrs. N. W., Rea.
 Culver, Mrs. R. E., 2818 Frederiek Blvd., St. Joseph.
 Duncan, Jay, Red Top.
 Erwin, Mrs. S. F., Holden.
 Fritzkam, Henry, Ste. Genevieve.
 Foote, Mrs. F. A., Oasis.
 Fisher, G. M., Green City.
 Fair, Mrs. Jennie, Gilman City.
 Francis, Mrs. Nellie N., Amsterdam.
 Golding, W. M., R. F. D., Quitman.
 Goff, Mrs. E. S., R. 10, Columbia.
 Goll, Mrs. Mable C., Raymore.
 Guffey, F. W., Unionville.
 Hudnal, Ike, Milan.
 Hamilton, Mr. and Mrs. Alex., Petersburg, Ill.
 Hurt, Mrs. Thomas, Boonville.
 Hutchison, J. R., R. 5, California.
 Hadden, Mrs. C. C., Paris, Ky.
 Johnson, Mrs. Raymond, Salisbury.
 Jones, Mrs. C. C., Blackwater.
 Kyd, Mrs. John Bailey, Green Ridge.
 Lee, Mrs. Frank H., 510 Pearl St., Joplin.
 Milligan, Mrs. Kate, Richmond.
 Moore, Mrs. T. G., Pisgah, R. 1, Bunce-ton.
 Martin, J. W., Dexter.
 Mozley, Mrs. N. A., Bloomfield.
 Muntzel, Mrs. H. P., R. 1, Boonville.
 Millay, Mrs. W. F., R. 1, Mtn. View.
 Miller, Mrs. Dena V., Guilford.
 Means, Mrs. Clay F., R. 3, Dearborn.
 Mitch, Mrs. Leonard, R. F. D., New Cambria.
 Mills, Mrs. Robt., Boonville.
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McCullum, S. B., New Cambria.
 McMahan, Mrs. Jessie T., Blackwater.
 McMahan, Mrs. Robt., Lamine.
 McCulloch, Mrs. Ben, R. 2, Tipton.
 Owens, Mrs. J. T., Frankford.
 Oram, Mrs. Alice, Gilman City.
 Oetting, Otto W., R. 2, Concordia.
 Powell, Mrs. E. B., Higginsville.
 Popham, Mrs. W. B., Chillicothe.
 Poe, Mrs. C., Orrick.
 Pollard, Mrs. D. S., Cowgill.
 Robertson, Mrs. W. W., Bates City.
 Robison, W. S., Fayette.
 Roberts, C. A., R. 3, Callao.
 Seearce, Mrs. W. L., Gower.
 Stone, J. M., R. 6, Columbia.
 Scott, Mrs. E. M., Lathrop.
 Switzer, Mrs. Mary J., Hickman Mills.
 Walden, Mrs. Ernest, Fayette.
 Warren, Mrs. G. D., R. 4, Carrollton.
 Winn, W. B., Lee's Summit.
 Williams, E. B., R. 4, Humansville.
 Wares, Mrs. Gus, LaPlata.
 Wheaton, W. F., Dresden.

WHITE HOLLAND TURKEYS.

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 Ellemberger, Mrs. H. E., Polo.
 Ezill, Mrs. Mary, Blue Lick.
 Garnett, Grace, Marion.
 George, Claude, R. 5, Platte City.
 Hamilton, Mrs. W. S., Clarksdale.
 Hunt, A. W., Hemple.
 Hower, C. M., Savannah.
 Harford, J. M., Carrollton.
 Lacock, Mrs. Belle, Puxico.
 Middleton, Mrs. A. F., Bates City.
 Nuckey, Mrs. C. M., Lee's Summit.
 Simmons, Miss Chloe, Grant City.
 Stocking, Mrs. C. A., Fletcher.

BOURBON RED TURKEYS.

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 Bray, Mrs. Lena C., Mt. Vernon.
 Brackmier, Lewis, R. 6, Carrollton.
 Cundiff, Mrs. Harve, Bosworth.
 Douglas, J. Ernst, Leeton.
 Estes, Mrs. J. M., Columbia.
 Morrison, Mrs. J. E., R. 1, Blue Springs.
 Morton, Mrs. Ed, Lamine.
 Potter, Miss Ella, Clifton City.
 Reedy, Mrs. Wm., Tipton.
 Stiggers, Mrs. Amos, Gallatin.
 Unsell, Mrs. Darls, Frankford.

NARRAGANSETT TURKEYS.

Archer, Grant G., Boylers Mills.
 Berger, Mrs. Henry, Dalton.
 Dixon, L. M., Humansville.
 Dixon, Geo., R. 4, Humansville.
 Perkinson, Mrs. Jno. W., West Alton.

FAWN AND WHITE RUNNER DUCKS.

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 Bond, Katherine, Grant City.

Bloomer, Mrs. J. A., Ash Grove.
 Baker, Mrs. J. H., R. 1, Butler.
 Cochran, M. E., Seymour.
 Coffman, R., Minnith.
 Callaway, Mrs. J. P., Marshfield.
 Conrad, J. D., Aurora.
 Dewey, Geo. M., Keytesville.
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 Ernst, H., Seymour.
 Emison, D. H., Napton.
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 Hall, Guy E., New Cambria.
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 Harper, L. A., West Plains.
 Johnson, Joe, Bourbon.
 Ludwig, Mrs. E. D., Waynoke, Okla.
 Lacoek, Mrs. Belle, Puxico.
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 Loose, Mrs. Mary, R. 4, Carrollton.
 Odell, Dr. B., Billings.
 Pay, W. W., R. 4, Humansville.
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 Rock, E. F., Montrose.
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 Cherry, W. A., Adrian.
 Hilke, Henry F., 6149 Page, Wellston.
 Kavanaugh, D. S., Tipton.
 Shackelford, W. E., Napton.
 Snyder, Jas. R., Frazer.

PEKIN DUCKS.

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 Blackmier, Lewis, R. 6, Carrollton.
 Dean, Mrs. J. O., Drexel.
 Fallert, Felix, Zell.
 Gilstrap, A., R. 1, Racine.
 Kohler, Prof. Otto, Hollister.
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 Smith, Mrs. Chas., R. 6, Carrollton.
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 Hayes, W. B., Bolivar.
 Jones, Mrs. Alfred, Maryville.
 Owen, C. F., Willard.

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 Mueller, L. H., Wellsville.
 Myall, Mr., Joplin.

ROUEN DUCKS.

Amick, Walter M., Windsor.

EMBDEN GEESE.

Bruns, Jno. F., Concordia.
 Berry, Jas., Minnith.
 Rowland, Harry, New Cambria.
 Warmon, J. C., Grant City.

TOULOUSE GEESE.

Baum, Mrs. J. R., Butler.
 Fisher, Mrs. E. G., King City.
 Pigg, Jno. M., Orrick.
 Riepe, Henry G., St. Louis Times, St. Louis.
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PEA FOWLS.

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