Rabbit Raising for Meat

Fig. 1. Two Compartment Rabbit Hutch.

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Introduction

Rabbits are raised for meat and fur and they offer a quick, easy, additional source of highly, nutritious, pearly-white meat which can be produced and served on the home table or for market the year round.

Little space and inexpensive equipment is required to produce rabbits and for this reason rabbit production offers an additional opportunity to 4-H Club members as well as adults to produce more meat in the Food for Victory Program.

Rabbits can be raised on the back lot where space is limited or they may be raised out on the farm. With the large meat breeds it is possible under good management for one rabbit doe to produce three good litters per year or a total of 35 to 40 pounds of dressed fryers annually. With the use of home grown grain, properly balanced with a protein supplement, the cost of production can be materially reduced. The cost per pound for this fine meat compares favorably with that of other meats so badly needed at this time. Delicious rabbit meat recipes are suggested by the following: Golden brown fried rabbit, rabbit pot pie, rabbit stew, and delicious rabbit salad. Rabbit skins are used in the manufacture of hats and fur garments and rabbit pelts offer an additional source of income.

Selecting a Breed

In choosing a breed of domestic rabbits for the production of meat for home use or for market it is best to confine the breed to one of the medium weight or larger types. There are fifty-one recognized breeds of rabbits.

The various breeds range in size from six pounds for adult rabbits with some of the fur breeds to nine pounds up to sixteen pounds for some of the giant meat breeds. For the production of meat the heavier breeds are most popular. The New Zealand Whites, New Zealand Reds, Flemish Giants and Chinchillas are among the breeds suitable for the production of meat and fur. Breeding stock can be secured from a number of reliable breeders in
this and other states. The A. and M. College has no rabbits for distribution.
The following table showing standard and recognized data on several of the breeds may be of assistance in making a selection.*

<table>
<thead>
<tr>
<th>Breed</th>
<th>Weight in Pounds</th>
<th>Primary Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>American (Blue and White)</td>
<td>9</td>
<td>meat, fur, show</td>
</tr>
<tr>
<td>American, Silver Fox (Black</td>
<td>9</td>
<td>Fur</td>
</tr>
<tr>
<td>and Blue)</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Angora Woolers</td>
<td>6 and over</td>
<td>Wool and show</td>
</tr>
<tr>
<td>Belgian Hare</td>
<td>8</td>
<td>Meat and show</td>
</tr>
<tr>
<td>Belgian Heavy Weight</td>
<td>9</td>
<td>Meat</td>
</tr>
<tr>
<td>Beveren, White</td>
<td>9</td>
<td>Fur</td>
</tr>
<tr>
<td>Checker Giant</td>
<td>11</td>
<td>Meat and show</td>
</tr>
<tr>
<td>Chinchilla</td>
<td>10</td>
<td>Meat and fur</td>
</tr>
<tr>
<td>Flemish Giants</td>
<td>13-14</td>
<td>Meat and fur</td>
</tr>
<tr>
<td>New Zealand (Red and White)</td>
<td>9-10</td>
<td>Meat, fur, show</td>
</tr>
</tbody>
</table>

*As recognized by the American Rabbit and Cavy Breeders Association.

There are many other good breeds which one may select and after all the best breed for any individual may be that breed the individual "likes" best.

Selecting the Foundation Stock

Mature animals or young rabbits, just weaned, may be used as a start. The beginner may start with one young male and two or three young females or the start may be made with one or two breed does. One buck for each 10 does is usually required. A cooperative breeding program in this regard might be arranged by two or three neighbors to begin with. It is best for the beginner to start on a small scale and grow into the enterprise. Experience will be gained as the operations expand. Stock can be secured from local breeders and state and national organizations will be glad to furnish names of reliable breeders. Only strong, vigorous animals with type and conformation should be used for breeders. To insure against introducing diseases from the outside, new stock should be isolated in separate quarters for ob-
servation for a week or ten days before releasing into the rabbitry.

Porking and Equipment

The two-doe rabbit hutch, Figure 1, as shown on the cover page is recommended for backyard rabbit production. Ten to fifteen square feet of floor space is required for each doe and her family of young. This will be adequate space for the doe and litter until the litter is weaned or ready as fryers. (See Figure 4, Page 8 for details.) This type of hutch is easily cleaned and can be moved around under shade trees if necessary during hot weather. One-half inch mesh hardware cloth may be used for floor instead of slats as illustrated, if available. The hardware cloth floor is easier to keep clean and better assists in preventing accumulation of moisture on floor. However, the hardware cloth floor has a greater tendency to cause sore hocks. When the wire cloth is used, always place a 1”x12”x30” board inside for the rabbits to rest upon when not active in the hutch. Similar units can be added from time to time and a modification of this plan can be used in making double-deck hutches where space is limited. The feed rack for hay in the center will serve both compartments of the hutch. The shallow trough underneath the hay rack will prevent waste of hay and it may also be used for feeding grain. Most rabbit producers prefer a separate feed crock or container, however. In addition to the hutch proper, each compartment should be provided with crockery utensils for water, a crock or feed trough for grain and a nest box.

Care and Management

Breeding: Rabbits are ready for breeding upon reaching maturity. Some breeds reach maturity earlier than others. The age of maturity will range from around 6 months for the small breeds to 9 months to 12 months for the giant breeds. One buck to each 10 does is suggested as a maximum in mating, with 4 or 5 matings per week for the buck under limited use, and two or three matings with continuous use. The breeding program should be carried on throughout the year. With proper management, three good litters can be raised each year. However, four litters may be possible. It is best to allow a short period of rest after weaning litter for conditioning before remating the doe. In mating, the doe should always be placed in the buck’s hutch and as soon as mating occurs, the doe should be removed immediately. A test mating may be made again after 14 days as a proper check up. Records should be kept showing the date of mating as well as other desired data for reference from time to time.

Kindling: Kindling will occur on the average around 31 or 32 days after mating, sometimes a day or two under or over this time. For this rea-
be marketed or transferred to another hutch so as not to delay the breeding program.

Fig. 2. Proper way to lift a medium weight rabbit.
(Photos Courtesy U. S. Department of the Interior)

The Young: Six to eight young rabbits to the litter are usual; however, there may be as many as 10 or 12 to the litter. In such cases the litter should be reduced to six or seven of the strongest, most vigorous prospects. This is about the right number to raise properly. The litter surplus may be given to another doe kindling too few a number around the same date. Only the strong vigorous young should be saved in any event.

Twenty-four hours after kindling, quietly inspect the nest to remove any improperly developed or dead young. Then leave the doe and litter undisturbed as much as possible for several days.

The litter should be left in hutch with the doe until they are at least 8 weeks old. By this time they are weaned and on full feed with the regular ration. At 8 weeks of age the fryers should be ready for use or for market and should

Handling Rabbits: Rabbits should be handled with much care. They are easily injured by improper handling. See Figures 2 and 3 which show the proper way to carry rabbits to insure against injury. Rabbits should not be carried or held by the ears. They are often injured in this way.

Feeding
Rabbits can be fed a variety of home grown grains and legume hays. Such whole grains as oats, wheat, grain sorghum, rye, and barley. Whole corn is not recommended as the rabbits are inclined to eat only the kernels and as a result there is too much waste. If corn is used it should be in the form of meal.
When the grains in the mixture are fed in ground form the meal should be slightly dampened to facilitate feeding and prevent waste. The grains may be mixed pound per pound and interchanged and with the exception of corn the grain may be fed whole or ground.

A good legume hay should be kept before the rabbits in the hay manger of the hutch at all times. For many sections of Texas this practically means alfalfa hay. Alfalfa hay is one of the best hays to feed; however, sweet clover, lespedeza, cowpea, vetch and peanut hays are good. With legume hays, the green colored, leafy and fine stemmed hay is best. It should be free of any mold. Chop the hay into short lengths to prevent waste. The mixture of grain and alfalfa feed may be supplemented with root and vegetable crops, such as the roots and tops of turnips, carrots, radishes, and sweet potatoes, etc. Tender green lawn clippings are often fed. The vegetables should be sound and fresh, otherwise do not use them for feed. Vegetable crops will deteriorate rapidly and should not be allowed to accumulate in the hutch.

Exercise care in feeding the green crops. Start gradually and feed as a supplement to and not to replace the regular grain and legume hay ration, otherwise digestive disturbances may occur.

**Dry Does and Herd Bucks:** Keep legume hay before them. Feed at regular intervals the quantity of grain they will consume in approximately 30 minutes. The frequency of feedings will be dependent on the condition of rabbits.

**Doe and Litter:** Keep feed, both grain and legume hay, before them at all times. Feed the amount of grain and protein supplement that will be consumed and cleaned up daily. Avoid an accumulated carry-over of the grain mixture to insure against contamination of the feed.

**Roasters:** Adult rabbits may be fed out and finished as roasters. The surplus adult does and herd bucks, which are culled out from time to time, may be put on full feed and quickly finished for the table or market.
TWO DOE RABBIT HUTCH

Floor framing and legs

2' 6" 9' 8"

2' 4" Leg

1" x 4"

Floor 1" x 2"s
Cracks 1/2"

Front 1" x 4"

1" mesh netting

Use thin cleats inside of
door corners

1" x 2"
Roof - Shiplap 10' long, covered with roll roofing or sheet iron.

Section

1"x4"

3 roof supports

cleat

End

Shiplap

or t.l.g.

lumber

Section

1"x3"

Hay

1" mesh netting

1/2

8"

Trough

8"

HAY RACK AND TROUGH SECTION

Scale 1" = 1'

NEST BOX
TWO DOE RABBIT HUTCH

Floor framing and legs

Front scale \( \frac{1}{4}'' = 1' \)

Roof - Shiplap 10' long, covered with roll roofing or sheet iron.

HAY RACK AND TRough SECTION
Scale 1'' = 1''

NEST BOX
Fryers: As heretofore stated, the young rabbits may be kept in the hutch with the doe until ready to slaughter. In this way there is no let down caused by any change. However, should the fryers be separated from the doe, they should be kept on full feed on same ration until ready for use.

Water: An adequate supply of clean water should be kept before the rabbits at all times. This is very important and clean water means clean containers as well.

A Suggested Ration: (Grain)
- 2 parts whole grain, oats, wheat or barley
- 2 parts whole milo, hegari, feterita or kafir

(Protein)
- 1 part soybean, peanut or linseed meal in form of meal, pea-size, cake or pellet.

(Roughage)
- Alfalfa hay
- Root crops or green feed
- Salt.

A protein in addition to grain is necessary to balance the diet properly. When fed in form of meal, the mixture of grain and the meal should be dampened a bit to prevent meal from settling to bottom of feed container and to prevent waste. The pea-size oil cake and the protein supplement pellets are the easiest form to mix with the grain feed and in this case no moistening is required. Protein meals pressed into pellet form are commercially prepared and are available through commercial mixed-feed channels.

A 10 lb. to 12 lb. doe and her litter of seven will consume during the sixth week about $1\frac{1}{4}$ lbs. of the grain and protein ration daily. Approximately 6 ounces for the doe and 2 ounces each for the young.

The feed requirements for the doe and litter of seven from the time doe is mated until the litter is weaned will be approximately as follows: grain and protein—50 lbs.; alfalfa hay or other legume hay—35 lbs. There may be a slight difference in feed requirements between summer and winter or when ration is supplemented with garden vegetables, however, approximately 2 lbs. of grain and protein mixture plus $1\frac{1}{2}$ lbs. legume hay or a total of $3\frac{1}{2}$ lbs. of feed will be required for each pound (live weight) of fryers produced up to weaning time.

Slaughtering and Preparation

In slaughtering and dressing rabbits the following steps are suggested:

1. To kill, first stun the rabbit by striking it behind the ears with a stick or edge of open hand while the rabbit is held up by both hind legs.

2. Hang carcass on a hook by one leg, and remove head immediately to facilitate good bleeding (see Fig. 5). Note that the hook is inserted between the tendon and the bone of the right hind leg.
3. Remove the tail and cut off the feet from the free legs at the hock and knee joints.

4. Slit the skin on inside of hind legs to the root of the tail and remove skin by slipping it off "wrong side out."

5. Remove the entrails, but leave the liver in place.

6. Remove the other hind leg by severing at the hock.

7. Rinse the carcass in cold water but do not allow it to soak in water more than a few minutes.

8. Cut meat in pieces as indicated in Figure 6. Place meat in refrigerator or wrap in cellophane or other container for storage in cold storage locker until ready to use.

Skins: The skins are used for furs and also in the felting industries. As a by-product of meat production, the income from the pelts will assist in further defraying the cost of the rabbit enterprise. Where a sufficient number of skins are available a ready market should be had.

Shapers for skins can be made of No. 9 galvanized wire 4 ft. to 5 ft. long depending on the size of the rabbits. A thin board shaper may also be used. This shaper should have dimensions as follows: For fryers: board 24" long and 7" wide at one end, tapered to 4" wide at the other end. For large rabbits weighing 10 pounds or more the dimensions of shaper should be 30" long x 9" at base x
4" wide at narrow end. Place the skin on shaper while still warm. Have the flesh side out with the fore part over narrow end of board. Remove all wrinkles but do not overly stretch the skin. Both front legs of the skin should be on one side. Fasten the skin of hind legs to wide end of shaper with use of clothes pins. Hang up in shade until thoroughly dry. Do not dry in the sun or by artificial heat. If dried skins are to be stored, they should be sprinkled with naptha flakes and packed in tight box. Do not salt rabbit skins that are to be marketed. Directions for packing and shipping skins will be gladly given by the pelt buyer or commercial concern making the purchase.

Diseases

The control of diseases among domestic rabbits is often more a matter of prevention than cure. With strong, healthy stock to begin with and with continuous strict sanitary precautions, little trouble should be had from diseases. The most common troubles such as diarrhea, sore hocks, sore eyes, mange or ear canker can be successfully treated by most every one. When such as hemorrhagic septicaemia and coccidiosis infections occur, one might well consult a veterinarian. Serious outbreaks of these diseases may necessitate drastic means such as destroying the affected stock, and thoroughly disinfecting the premises.
Sanitation: Clean and disinfect hutches, water crocks and feed utensils at frequent and regular intervals. The nest box should be thoroughly cleaned and treated with disinfectant solution between litters. It may be necessary to clean nest box and replace with new nest material by the time the young rabbits have reached sufficient size to make a change. To clean utensils, scour and wash in soapy water to which a disinfectant solution has been added. After washing in disinfectant solution, all vessels should be rinsed in clean water and sunned if possible. Chlorine and cresol solutions are often used as disinfectants. Ordinary lye water is economical and is sometimes used. Take additional precautions in handling disinfectant solutions to protect other members of the family and visiting children. Remember that the rabbitry has quite an attraction for small children of the neighborhood.

Diarrhea: The cause of this trouble is usually incorrect feeding. Isolate rabbit in separate quarters, reduce amount of feed especially green feed; feed scalded milk or a mixture of bran, rolled oats or bread in scalded milk. A small dose of castor oil will often assist in clearing up the trouble.

Sore Hocks: Usually caused by rabbits stamping feed in wet filthy hutches. Heavy rabbits are more apt to have this trouble. Clean and disinfect hutch and allow to dry. Soak affected parts in warm, soapy water and remove crusts, etc. Apply carbolated vaseline.

Sore Eyes: Usually caused from infection in filthy hutches. Clean and disinfect hutches. Wash eyes with boric acid water. Apply a good ointment should sores occur.

Mange or Ear Canker: Caused by ear mange mite. Rabbit will rub at ears with fore paw in early stages. The twisting of head and neck (wry neck) is often noticed in more advanced stages. Treat in early stages by removing scales and crusts, then apply mixture of 5 parts carbolic acid and 95 parts vegetable oil. Camphorated oil is also recommended.

Hemorrhagic Septicaemia: This trouble may be evidenced in several forms, one of the most common perhaps being in the form of a contagious nasal catarrh (snuffles). Do not confuse with ordinary colds which are more temporary. Isolate all affected animals in clean, dry and well ventilated quarters. Feed plenty of green feed. With the use of a medicine dropper, apply a mixture of 3 drops oil of eucalyptus added to 1 ounce of olive oil or liquid petroleum, to nostrils. There seems to be no highly successful remedy for this disease in any of its forms. It may be necessary to destroy all affected animals and thoroughly disinfect the premises.
Rabbit Manure

Rabbit manure is rich in nitrogen, more so than that of most farm animals. It is an excellent fertilizer for the flower or vegetable garden. The manure should be saved and spread broadcast over the garden from time to time. If the manure is stored for a period it should be kept dry and later spread and worked into the soil as the land is prepared for planting. As an added precaution against the spread of disease among the rabbitry, it is wise not to feed vegetables from that part of the garden where the rabbit manure has been used.
New Zealand White doe and litter.

(Photo Courtesy U. S. Department of the Interior)