

PIG FARMING **[Instructor Manual]**

Introduction

Pig farming is a branch of animal husbandry that deals with raising and breeding of domestic pigs. Pig farming can also be said to be the act of rearing piglets or weaners until maturity for commercial purposes. This involves getting the right piglets, vaccines and vaccination and the management of a piggery. Pig farming is becoming popular day by day. It is a wonderful business idea and very profitable. You can get a return on your total investment within a very short time. ▾

Along with traditional business ideas, pig farming in Nigeria can play an important role in eradicating unemployment, poverty, nutrition lacking and many more. By raising pigs commercially, you can both fulfil your family nutrition demands and earn some extra cash.

There are many ways to participate in the pork business. The primary scheme is to start a pig farm. Pig farming is the raising and breeding of domestic pigs as livestock. Some experts say pig farming is the best livestock farming because you spend less and make more profit.

There are also other opportunities to gain from pig farming, ranging from revenue generation in the sale of pigs, to its processing as pork chops, ham, bacon and sausages. Pig farming delivers a diversity of by-products. These by-products are often sold at a premium especially to foreigners.

Care must, however, be taken on the farm to prevent a break out of disease like the swine flu, which is why it is important to involve a veterinary doctor and go for proper training before start-up.

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About the Course

The United Nations' Food and Agriculture Organisation reports that pork forms about 38% of all the meat consumption in the world. This means there is a huge market for more pig farmers as the demand for pork and other products of pig meat will only keep increasing.

Despite the huge Return on Investment in Pig Farming, many Nigerian farmers are still struggling with this relatively easy business, and that is because they do not have the right resources to launch out and make profits.

This course will guide you through your journey into a lucrative Piggery enterprise, including what to look out for and pitfalls to avoid. At the end of the training, you will be confident enough to start your business assured of a rewarding and profitable investment.

Module 1: The Economy of Piggery

The value of trade in pig products around the world runs into billions of dollars every year and Nigeria enjoys less than 2 per cent of this action. China is both the largest producer and net importer of pig products.

Many will argue that pigs have the highest profit potential of all farm animals because they eat almost everything and produce more meat than cattle. Pig farming means work but it is not too difficult. It's a livestock business that can give you satisfaction and double your money if you do it right. Below are the advantages, worth noting, of pig farming.

Advantages of Pig Farming in Nigeria

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- The reproduction~~ion~~ period of pigs is faster than other livestock like cattle or goats.
- Pigs can convert more energy/nutrient into protein and as a result, they grow faster than cattle, goats or other livestock animals.
- Pigs can survive and produce more by consuming little amount of ~~low-~~quality foods. You can feed them roughage, kitchen garbage, agricultural waste, etc. ~~to reduce~~ feeding cost.
- They require less amount of investment. Although, investment depends on the size of your farm.
- Pig farming can help solve the problem of malnutrition of many individuals through the provision of pork with high protein content. By raising pigs, we can meet up this demand.
- A large amount of daily necessary protein derives from plant and a little amount from animals. Animal protein is very essential for the human body because of its high biological value and contains the building stones for good health and proper growth. By raising pigs, we can easily meet up this demand.
- A sow generally gives birth to piglets twice a year. And the gestation period is not more than 115 days. So, even when you start with a small number of pigs, you can upscale quickly.
- The weather condition and geographical location of Nigeria are very suitable for pig farming.
- Piggery is a very profitable business with great ROI (Return of Investment) if handled professionally.

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The Economy of Pig Farming

Food Production: The consumption of pork and other pig-related products is at an extremely high rate around the world. As earlier stated, it trumps the consumption of sheep, goats, and even cattle in many parts of the world. This

excessive consumption and the demand for pig products make it a lucrative farm business. With demand far exceeding supply, rearing the right pig breed and building a network of associates to supply, whether locally or via exports, make it a highly lucrative business to execute.

Leather: Pigskin, though sensitive, can be great leather products used in manufacturing American footballs, boots, furniture, shoes, belts, gloves, saddle seats, and many more items. With its business opportunities spanning into the leather industry, your ability to diversify your pig farming income from food production to leather production can lead to an increased return on your investment.

Module 2: Breeds of Pigs,

One of the most important secrets of successful pig farming in Nigeria is the type and quality of pigs you have on your farm. If you get the right type of pig breeds for your farm, you stand a very high chance of having a successful and very profitable pig farm.

The most common pig breeds for commercial pig farming in Nigeria are the Yorkshire, Landrace, Hampshire, Duroc breeds and their crosses. These breeds produce lean meat combined with efficient feed conversion (3 kg of good feed is needed to produce 1 kg of pork). Compared to local pig breeds, these commercial breeds have good resistance to diseases and suffer less from hot weather and low-quality feed. The characteristics of these pig breeds are listed below:

Yorkshire

They are white, long body with erect ears, they make good mothers and have a live weight for a mature male 300 to 450kg and female 250 to 350 kg. They have

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high prolificacy, with a litter size of 12, weaning percentage greater than 70%, and 7 pairs of teats. They can also be used for upgrading local breeds.

Landrace

They are white with large drooping ears, long body and they make good mothers. They are one of the newest breeds of a Danish origin. They are noted for having the highest number of pigs per litter. The average live weight of a matured male is 310 to 400 kg and female is 250 to 330 kg. They are good for bacon production. They also have high prolificacy, average litter size of 11 with a good weaning rate.

Hampshire

They are black with white belt and are muscular. Average live weight of a matured male is 300 kg and female is 250 kg. They are good for bacon production. They have a high prolificacy, with a litter size of 9 with high weaning rate.

Duroc

They are red, muscular with partially drooping ears and desirable as sires. They grow the fastest out of all the other breeds. Average live weight of a matured male is 300 kg and female is 250 kg. They have a high prolificacy, with a litter size of 9 with high weaning rate.

Crosses between Native and Exotic for Improvement of Local Breeds

Breed improvement is important for obtaining improved and high yielding pig breeds. The main purpose of breed improvement is to introduce a positive characteristic into a local breed. For example, by crossbreeding an indigenous sow with an exotic boar; the offspring is likely to inherit the body shape and good growth rate from its father and the tolerance to environmental stress from its mother.

Module 3: Breeding in Piggery,

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Native breeds of pig can be found throughout the country. They are a small body size compared to other exotic and crosses pig types. Their name varies from region to region. Their short description is given below.¶

Wild Boar¶

This breed is found in the wild throughout the country. It has a height of between 90 – 95 cm and weight of between 200 – 250 kg. Their color varies between brown and black with thick hair on the body. They have a gestation period of 115 days with litter size of 4 – 6 piglets that looks very different in appearance and in color strips at an early stage.¶

Pygmy Bander¶

This breed is found in throughout northern India, Bhutan, and Nepal. The smallest, adult males average is 65 cm long and 25 cm tall. The females are slightly smaller. The males have an average weight of 8.5kg. Their coats have blackish brown bristles over gray-brown skin.¶

Gestation period in this breed is approximately 100 days and litters size of 2 to 6. Their sexual maturity is between 13 to 33 months and they live 10 to 12 years in the wild. ¶

Hurra¶

This breed is found throughout Terai of Nepal and kept under scavenging systems. Their coats have brown bristles on the neck portion. They reach adult at 226 days, with average litter size of 5.72 at weaning with birth weight of 700gm. Matured males has an average weight 45kg and female 4...

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The most common pig breeds for commercial pig production are the Yorkshire, Landrace, Hampshire...

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Breed improvement is important in obtaining improved and high yielding animals. The main ...

Pure Breeding

Pure Breeding is mating purebred individuals of the same breed. The progeny has the same genetic makeup. The major objective of pure-breeding is to identify and propagate superior genes for use in commercial production primarily in crossbreeding programs as well as to propagate and identify superior females for maintaining valuable genetic material. Furthermore, crossbreeding will not be worthwhile unless superior pure-bred individuals are used.

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Out Breeding

Out Breeding is mating individuals of the same breed but who are less closely related than the average of the breed. There should not be a common ancestor for at least four generations s back in the pedigree of the boar and the females with which he is mated. It is a useful mating system in purebred individuals.

In Breeding

In Breeding is mating between individuals of the same breed but which are more closely related than the average of the breed. This could be between as close individuals as full sibs or sire-daughter, mother-son. Pure breeding is a special kind of in-breeding.

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The effect of inbreeding is the concentration of common genes in the offspring. This high frequency of homozygous gene pairs applies to both desirable and undesirable traits. Many undesirable traits e.g. hernia and cryptorchidism involve recessive genes thus inbreeding perpetuates their expression phenotypically. Inbreeding causes a decrease in litter size and increases mortality. Inbred sows are inferior in milking and mothering ability. It delays sexual maturity in gilts and boars. Inbred boars have less sexual libido. Inbred gilts have fewer eggs during oestrus and farrow smaller litters than those outbred.

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Cross Breeding

Crossbreeding is mating two individuals from different breeds thus introducing into the progeny a gene combination that is different from that existing in either parent or the breed of either parent. Crossbreeding can involve two or more breeds, depending on the desired result. The sole purpose of crossbreeding is to take advantage of the observed improvement in the performance of the progeny above that of either parent - hybrid vigour or heterosis

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Best Pig Breeding Practices Adopted in the Villages

Breeding boar is exchanged between villages/farmers groups. For crossbreeding, male piglets are exchanged between villages. Every year breeding male must be changed with an un-related herd to avoid inbreeding problems.

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Selection of Breeding Gilt

It is extremely important to select a good boar since it contributes half the quality of the herd. Areas to be considered while selecting breeding Gilt:

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- Gilts selected to have at least 12 teats to accommodate a large litter
- Gilts to be selected from sows, which wean 9 -10 or more piglets per litter and are known to be good mothers and first farrowing at one year of age and farrowing interval of seven months.
- Select breeding gilts at the weaning period, further selection should be done 5-6 months of age.
- Select fast-growing weaners. These will likely consume less feed per unit live weight gain. Thus, less costly to keep. Select gilts which have developed hams and comparatively light heads.
- The selected gilts should have good body formation i.e. strong legs, sound feet, etc.
- Gilt must be at least 8 months old at first service.

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Gilt should not select for breeding purpose having supernumerary and inverted teats, and fat deposited at the base of the teats...

Selection of Breeding Boar

It is extremely important to select a good boar since it contributes half the quality of the herd. Factors to while selecting breeding Boar:

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- Boar should have sound feet with good, full hams, uniform curve at the back and of good length.
- Boar to have at least 12 nicely placed rudimentary teats.
- Boar to be selected from sows, which wean 8 -10 or more piglets per litter and are known to be good mothers.
- Boar to be selected from the herd which is having normal sex organs, active, healthy and strong.
- Selection to be done before castration i.e. at 4 weeks. Select biggest from the litter.
- Boar must be at least 8 months old at first service.

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Heat Detection – Common Signs of Heat

1st stage: early heat sign

- General restlessness
- Vulva turns red and is swollen
- White mucus discharge

2nd stage: service period signs

- Real Oestrus lasts for 40 - 60 hours
- Vulva becomes less red and swollen
- Slimy mucus discharge
- The tendency to mount and be mounted by others
- The sow or gilt will stand still when pressure is applied to her back (can accept a man's weight sitting on her. Thus, the right stage to send her to the boar

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3rd stage: post-oestrus-period signs

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- The sow/gilt will not stand still when pressure is applied to her back.
- The swelling of the vulva disappears.

How to Induce Heat

After farrowing, a sow may be slow to come into heat. Here are a few methods used by farmers to induce heat:

- Gently stroke the sow's vagina with a freshly cut papaya stalk every morning for 3-5 days.
- Spray the sow's (or gilt's) pen with boar urine every morning for 3-5 days.
- Grind 1 kg of fresh or dried lotus (Semen nelumbinis) seeds. Mix with 20 kg of dry feed. Feed to the sow twice a day for 5-7 days.
- Bring the sow to the boar, or place the sow in a pen next to the boar.
- Put the sow with the boar for a short period every day when the heat is expected.
- Always take the sow to the boar. This is less upsetting for him.
- Put the sow and boar together just before feeding.
- During her 24-hour pick heat period allow the boar to serve twice, with an interval of about 12-14-hour intervals between services. Do not mate animals during the hot time of day.
- If the sow doesn't conceive, she will return on heat again in about 3-weeks' time.
- 10 days before service, give the sow/gilt 1 - 2 kg of feed extra per day. Continue this for one week after service.
- During the last month of pregnancy, give 0.5 kg extra feed per day but decrease this gradually one week before farrowing. Provide plenty of water to help prevent congested gut during farrowing.
- Each boar should be kept in its own pen to avoid fighting. For mating, the sow is taken to the boar.

Stimulating Regular Heat

Remove the sow from the piglets early (at 4 - 6 weeks of age) and all at once.

Take the sow to a house with dry sows

Put the sow close to a boar, in a way that makes direct contact (hear, see, smell) possible.

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The sow should not be given any feed on the day of weaning.

The next day feed about 4 kg/day. This is called flushing and should be done for a maximum of 10 days or until the service takes place.

Put the sows in groups (stress stimulates heat)

If there are heat problems, change the type of feed for a few days.

Maintain a good climate; see to it that there is sufficient light in the house.

Sows should not be too fat or too thin when they are served. It is important to keep this in mind when determining the ration during the suckling period.

When Sow is in Gestation

After 21 days of serving she does not show heat signs Echo scan pregnancy detection 23 - 35 days, positive results

Culling

Sows that are difficult to get in-pig (pregnant) which only manage to rear small litters should be sold off.

Boars which are infertile or moderately infertile should be culled

Assistance

Young boars may need assistance in lining up their mate. Make sure your hands and wrists are clean and your fingernails are trimmed.

Pigs mate slowly. The boar may take a minute or more to reach the point of ejaculation.

To improve conception: Crush 1 kg of Semen nelumbinis (lotus) seed and mix with the sow's feed. Give 2 times per day for 3-5 days.

Fat sows may have difficulty conceiving. Therefore, if a sow is too fat, reduce her feed.

Possible Reasons for not conceiving

The sow is too fat.

It is the animal's first heat cycle.

The boar is too young.

The boar is overworked (used for more than five matings a week).

Care and Management of Breeding Boar

High priority should be given to the management of animals newly introduced into the breeding herd to achieve maximum reproductive efficiency. Good reproductive and nutritional management pays dividends through an increased number of pigs farrowed live and weaned. The following boar and gilt management practices will assist in the maximization of fertility and longevity.

Upon completion of the test, boars should be fed at a level of energy that will prevent excessive fat deposition. This practice should help ensure that they are physically adept and sexually active. Nutrients other than energy should be provided to meet the minimum daily recommended allowance.

Boars tested individually or in small groups in close confinement should be managed upon completion of the test in a manner to develop physical hardening and to stimulate sexual arousal and libido. Where possible, this should be done before delivery to their new owners and might include the following: a) Shifting boars to different locations. b) Providing fence-line contact with cycling females. This may be especially important where the aggressiveness of the boars precludes mixing them together.

Although boars tested in large groups and, less confined settings are likely to require less physical conditioning and sexual stimulation before use, they may also benefit from exposure to the management procedures described for boars reared in close confinement.

Care and Management of Breeding Sow

At the end of the test, the energy intake of selected gilts should be restricted to prevent overweight conditions. Nutrients other than energy should be provided to meet the minimum daily recommended allowances.

Moving gilts to new pens, increased exercise, and daily exposure to boars beginning from between 160 and 180 days of age will help stimulate the onset of oestrus. Breeding should be delayed until the second or third oestrus to increase the probability of large litters and prevent dystocia. Gilts that do not

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conceive after mating at two pestrous periods should be marketed. Likewise, gilts that have not expressed heat by 9 months of age should be culled. During gestation, gilts should be fed to gain about 75 lb and not become overly fat.

Minimum Breeding Ages for Boar and Gilts

For the seed stock producer to measure performance to acceptable off test weights, delivery of boars and gilts to the buyer is seldom earlier than 5 months of age. Sexual maturity and reproductive performance also are highly age- dependent. The *minimum* age for successful breeding in boars is 7 months. Gilts should be bred on the second or third heat to take advantage of the expected increase in ovulation rate that usually occurs following puberty.

Care and Management of New Born Piglets

A few minutes after the birth the umbilical cord may be pulled gently away or cut if necessary (to about 5 cm length).

After birth, the navel of each piglet should be soaked in a cup of iodine solution to prevent inflammation and tetanus. Each piglet should be rubbed carefully, dry with a cloth.

Make sure the piglets can suck from the udder as soon as possible after birth. Their sucking will encourage the sow to let down her milk. Weak piglets may need to be assisted. It is important that the piglets immediately take advantage of the first milk called colostrum. Colostrum should be taken by all the piglets on the same day they are born. If taken at this time the colostrum can protect the piglets against diseases.

After the first one or two days, the digestive system of the piglets breaks down the colostrum and its ability to protect from diseases is lost. The piglets can be given additional feed of goat or cow's milk, or a mashed bean porridge to which a little sugar has been added. If the milk produced by the sow is too little to meet the needs of the piglets or the sow completely neglects the piglets, they should be put on another sow or reared on cow or goat's milk.

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Feeding Piglets Whose Mother Does Not Produce Milk

If the sow does not produce enough milk the piglets should be given to another sow which farrowed or gave birth up to three days before. This sow should have fewer piglets than the number of teats on her udder. This is because the teats which are not being used by piglets dry off after three days.

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Piglets normally take control of one teat at birth and continue to feed from it until they are weaned. Transfer extra piglets to the sow with fewer piglets after disguising them with a spray which has a strong smell e.g. engine oil/kerol diluted with water to last at least 1 or 2 days.

All piglets should be sprayed as soon as the introduction is done so that the foster mother doesn't identify the foreigners. If there is no sow to take over feeding the piglets, they will have to be given extra food by hand. Goat or cow's milk can be given to the piglets in the same way as for motherless or orphaned piglets.

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Teeth Trimming

It is usually necessary to trim the piglets' teeth to prevent them m from biting the udder. The piglets are born with needle-sharp teeth which may injure the sow's udder and prevent the sow from letting the piglets suckle. The piglets would then be left to starve. Only the points of the teeth should be removed. If any more is removed there is a risk of damaging the mouth. When trimming the teeth, the tongue of the piglets should be rolled back to avoid injuring it.

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Anaemia or Iron Deficiency

Oral Iron Supplement

Oral Iron Supplement is an iron supplement for newborns. The manufacturing of *Oral Iron Supplement* uses a special, chelated process that bonds the available

iron, thus allowing the piglet's system to safely absorb the iron ~~to raise and~~ maintain adequate iron levels.

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The ideal method of administering **Oral Iron Supplement**, to the newborn piglet, is to rub the liquid iron onto the udder of ~~the~~ sow. When the piglets move from teat to ~~teat~~, they will slowly absorb the iron thus reducing the chances of any toxic reaction due to excessive amounts of iron. No injections are required when using *Oral Iron Supplement* thereby eliminating ~~any~~ chance of toxic reaction due to iron dextran.

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Anaemia is caused by iron deficiency. This iron is needed for the formation of haemoglobin. This is an important problem, especially for young piglets kept indoors. At birth, the piglets have about 50mg of iron in their body. They receive additional 1-2 mg/day from milk while they need 7mg during the first week. It is obvious that the quantity of iron decreases rapidly and if not supplemented. The piglets become very pale a few weeks after birth and their growth slows down.

This can be prevented by:

- Giving the piglet (3 and 10 days after birth) iron injection (1 and 2 ml respectively) IM preferably at neck muscles.
- Oral iron- paste containing iron is put in the mouth within 24 hours of birth
- Feeding compost- must be of good quality and supplied daily. Compost of poor quality may contain bacteria.
- Wood ash can also be put into the pen. This will not provide iron, but it does contain other important minerals.

Heating for Piglets

In cold weather, a small area can be heated with an infrared lamp. This keeps the young pigs warm. It helps prevent pneumonia and crushing as the piglets tend to stay under the lamp when not feeding.

Creep Feeding

Young piglets from 7 days onwards should have high protein feed available to them. This has to be fed in a small area where the mother cannot eat the feed. The feed conversion rate of young piglets is very high and thus creep feeding is particularly economic. Creep feeding helps the piglets to get used to feeding at an early age.

NB: The sow's milk yield also begins to decrease just as the growing piglets require feed.

Weaning

Successful early weaning of pigs requires skill and attention to detail in all areas. Weaning is a great challenge to the young pig. Knowledge of the nutrient requirements, health status and growth patterns for modern breeds of early-weaned pigs continue to develop. Early weaning of piglets at 14-21 days increases sow productivity through the potential increase in the number of litters per sow per year.

Selection of Replacement

Boars must be replaced when they become too large to serve most of the sows on the farm. Boars usually have a maximum working life of between 18 and 24 months. This means they should be replaced when they are 30 to 36 months old. It is very important to keep a record of the boars' use so that infertile ones can be detected and replaced as soon as possible.

A low sex drive (libido) can also be a problem. Some boars are slow workers and are sometimes reluctant and only now and then willing to work. Attention must be given to these boars so that they can be replaced if necessary. If replacement gilts are not available when needed or if they do not comply with the requirements, the gilts should be bought. It is advisable to buy them from the

same farm where the boars come from, because in this way the previous owner can advise you on the breeding policy for a small pig farm.

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Culling of Sows

Culled sows must be removed from the farm and sold as soon as possible. It does not pay to keep culled sows on the farm to gain weight before they are sold. As soon as the sow's udder has returned to normal after weaning it is wise to send her to the abattoir. Replacement gilt can then be brought into the herd immediately.

Reasons for removing sows from the herd are usually not known beforehand. Therefore, replacement gilts should always be available so that the number of breeding sows on the farm always remains the same. Some of the major reasons for culling are reported by big piggeries; Sows that farrow regularly and rear large litters (nine or more piglets) and are free of other problems and diseases should rear five to six or even more litters before they have to be removed from the herd. A sow is usually removed from the herd when her litters start to become smaller (two small litters in succession) or when she does not readily come on heat after weaning.

Castration

Male piglets are castrated to prevent their meat from boar taint. Castration also makes them more manageable when they become sexually mature. Castration should be done in the first two weeks of a piglet's life. The animals should be fit and healthy. If this is not the case it is better to postpone the operation. Two people are needed when castrating a piglet.

One person will carry out the small operation and the other person will hold the piglet. The pen should be dry and very clean to prevent infection to the wound. The knife should be thoroughly cleaned with a disinfectant. One person takes

the pig by the hind legs and holds it firmly between his or her legs. The piglet's head should point towards the ground.

Module 4: Feeds and Hygiene,

Good feed is necessary for growth, body maintenance and the production of meat and milk. You can use locally available feeds that are less expensive, but can be nutritionally complete when properly prepared. Pigs can be fed well, using only kitchen scraps from a family's household. The nutritional needs of pigs can be divided into six categories or classes. These are water, carbohydrates, fats, proteins, vitamins and minerals.

Formulated Feed

Creep feed

Creep Feed is the baby piglets' first and most important dry food. It contains 20% protein that is highly fortified with milk by-products and is available in small, chewable, highly palatable pellets for easy digestion.

A combination of protein source, milk replacer, vitamins, amino acids and rich feed ingredients makes this complete feed the ideal start for young healthy piglets. Creep feed (about 20g per piglet per day) or a good home-made mixture with fine rice bran, broken rice and milled maize grains. Clean drinking water must always be available.

Traditional pig feeds

Feeds should meet the animal's needs for maintenance, growth and reproduction. Good pig feed contains sufficient energy, protein, minerals and vitamins. Rice bran, broken rice, maize, soya beans, cassava, vegetables and distillers' residues are often used in pig feed.

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Distillery waste is much appreciated in the traditional pig husbandry, especially for fattening pigs. It is advisable, however, not to give this high valued feed to pregnant and lactating sows and piglets and weaners because of the alcohol contents in the waste.

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Traditional feed processing

Different feeds are mixed and boiled to make the pig feed more palatable. There are 2 types of traditional processing:

- Mixing all different feeds (rice bran, broken rice, crushed maize and soya, dried legume leaves, etc) in proportion and giving it directly to the pigs.
- Cooking the different raw materials together to improve digestibility and to break- down toxins from some feeds as raw cola-cassia, banana stem, maize and soya grains, beans, kitchen waste, forage crops, etc.

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Food Waste Feeding to Swine is also commonly known as Garbage Feeding or Swill. Food waste or garbage fed to swine must be cooked and sterilized properly.

Feeding Forest Products

Pig feed can also be prepared with forest products (wild vegetables, wild bananas, wild cola – cassia etc). At the same time, food waste can be used (kitchen, restaurant, fruits, soup, rice, noodles etc).

Growing legumes as feed for village pig production is having a big impact on the livelihoods of rural families.

Feeding Alcohol Distilling Residues

Local alcohol can be made from millet, rice, maize, sweet potato, banana, etc. Most popular for pig feeding is distillery wastes from millet. It should be mixed with other feeds such as rice bran and broken rice/maize grids. Distillers' residues can be fed to fattening pigs, but not to pregnant or lactating sows. The following

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mixing ratio is commonly used in combination with distillery waste; Rice bran/Wheat bran (2 kg), broken rice (1 kg), and Distillers' residues (5-10 kg) and other locally available agricultural by-products.

Local alcohol can be made from millet, rice, maize, sweet potato, yam, banana, etc. Most popular for pig feeding is distillery waste from millet and rice, protein content ranged from 17 to 33% (mean of 23%) in dry matter basis. It should be mixed with other feeds such as rice bran, wheat bran, maize/millet flour, and broken rice etc. Distillers' residues can be fed to fattening pigs, but not to pregnant or lactating sows. Yet, these animals require high quality of feed and therefore distillery waste needs to be replaced by other high-quality feed like commercial feeds

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Daily Feed Requirement

Dry/pregnant Sows and Gilts: Dry sows and gilts give 2.5/kg day of sow and weaner meal. Give extra 1kg/day one week before serving gilts and sows and one week after service. Give lactating sows 2.5 kg/day of sow and weaner meal for maintenance and 0.25 kg/day extra for each piglet being suckled.

Boars: Give boars 2.0 kg/day. If the boar is regularly used give it 2.5 Kg.

Piglets: Give creep pellets i.e. 0.5 - 1.00 kg/day from day 7 up to weaning time (21 days) per piglet. The feed should be mixed with sow and weaner meal the last week before weaning.

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Feeding of Growing and Finishing Pigs: Pigs weaned at 3 - 5 weeks of 11 - 13 kg body weight, should continue being fed on the starter diet until they reach 18 kg live weight. Pigs weaned at 7 weeks or older may be switched gradually to sow and weaner diet.

For growing or finishing pigs all ration changes should be made gradually. If this is not possible the feeding level of the new diet should be low until the pigs

become accustomed to it. Where post-weaning scours are a major problem, restricted feeding during the first week after weaning may reduce the incidents of scours.

For treatment in case of an outbreak of scouring, medication through drinking water is preferable since sick pigs go off feed.

Feeding Trough Size

The feeding trough should be firmly anchored to the floor to prevent overturning and wasting feed. Good pig appetite is important. Pigs will eat more fresh clean feed than if it is contaminated, stale or mouldy. Clean feed troughs daily. Sufficient feeder space is necessary, so each pig can eat what it wishes every day. On many farms feed waste is 15% or more. Feed waste must be avoided as much possible.

Pigs must be fed on time. This makes the pigs familiar to the feeding regime. Pigs need to be fed according to their sizes and ages. Troughs must be anchored so they cannot be turned over

Drinkers

The feeding trough can also be used to supply water. At large farms, automatic drinkers are used (bowls or nipples). All pigs need sufficient clean drinking water.

A pregnant sow: 10 - 12 litters water per day. A lactating sow: 20 – 30 litters per day. A growing pig: 6 - 8 litters per day. A boar: 12 - 15 litters per day.

Not enough water can reduce daily feed intake. Ample clean water must be available to drink at all times.

Module 5: Housing Management

Selection of Housing Locations

The site should be at an elevated place that cannot be flooded by rainwater.

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The site should be protected from the sun (shade from trees) and have ample fresh air. The site should be away from residences (around 8-10 meter away downwind).

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In case of a large-scale pig farm, the site selected needs also to be: well connected to roads throughout the year, Suitable for manure disposal, connected to reliable water and electricity sources.

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Effects of Bad Housing

- Abortion Slow/retarded growth and poor health
- Dysentery/Diarrhoea
- Piglets dead after birth due to Parasitic Infection
- Economic losses due to less meat production
- The spread of Contagious diseases

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Construction Plan for a Good Pig House/Shed

The important points about the pig house are as follows:

- The floor of the house must be 3 X 3 m.
- The floor of the house must be raised about 60 cm above the ground.
- The floorboards should have spaces of 2 cm between them.
- The roof must be rain-proof.
- The high side of the roof should face in a direction where some sun can shine a little way into the house from this side: but there must always be shade in some part of the house.
- The house must be strongly built.
- A pigsty can be constructed cheaply by using locally available materials. It needs to be constructed according to climatic conditions and according to the pig production system.

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- The pigsty should be comfortable for the pigs: good ventilation and ample shade, no overheating, no smells, no draft and no dampness.
- The building should be constructed with its long axis in an East-West direction (protected from sun and rain). The pig building needs to be divided into different pens for each phase of the production cycle. The number and the size of the pens depend on the expected numbers of pigs to be housed in each production phase.
- The costs of constructing the pigsty should fit the pig production systems. Efficient pig production is required to cover high construction costs.

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Module 6: Diseases and Parasites

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Sick pigs generally have the following signs:

- It may not eat or nor show interest in feed /water
- It may breathe rapidly which is an indication of a fever
- In white skin-coloured pigs, the skin may become reddish.
- It may have diarrhoea which may sometimes be bloody or blood-stained.
- The ears may be droopy or pointing downwards.
- They may have dull eyes.
- Skin and hair may be dull.
- Its tail will become limp.
- It may isolate itself from the rest

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Parasitic Diseases

Parasites are divided into external and internal parasites.

INTERNAL PARASITES (WORMS)

Worms are one of the most serious threats to pig keeping. More than 30 types affect the intestines of pigs. The most important two are the intestinal roundworm and the tapeworm.

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Roundworms - Roundworms live in the gut and take food from the pig. The pig can, therefore, become thin. Giant intestinal roundworms (*Ascaris lumbricoides*) are common around the world, especially in warm, moist climates. These worms are large, about the size of a pencil. The infection begins with the ingestion of eggs which are usually present in contaminated soil, or on fruits and vegetables are grown in infected soil.

Symptoms

- Anorexia in advanced stages.
- Anaemia and loss of condition.
- Weight loss in later stages.

When the worms die suddenly after treatment, they can block the gut and cause sudden death

Prevention

- Roundworms Control with medicine in the food is useful and provides clean and dry pens.
- Rotational grazing and periodic disinfection of pastures is required
- Separation of young ones from adults. Washing sows before farrowing.
- Periodic deworming
- Herbal treatment: herbs such as moringa are considered to be anthelmintic (able to kill intestinal worms)

Tapeworms - Tapeworms are flat and long ribbon-like creatures which are common in all parts of the world. Tapeworms do not have a digestive system so they receive their food through their skin as they absorb our nutrients. They especially absorb folic acid and vitamin B-12. These parasites may cause what is referred to as "verminous intoxication" as they put out and leave dangerous waste products in our bodies.

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These tapeworms can roll themselves into a ball and can be felt on the right side of the abdomen under the liver. Pork measles is caused by tapeworms which live in the muscles of pigs. They do not usually affect the pig, but can lead to pain and the pig may find it difficult to move around. When people eat undercooked measly pork, the worms develop inside the people, and can make them very sick.

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Symptoms

- Poor growth
- Rough grey hair coat
- Swollen belly
- Emaciation
- Anaemia

Prevention

- Prevent the pigs from wandering about where they can feed on human faeces
- Make sure that people working with pigs use toilets (hygiene and sanitation)
- Deworming

EXTERNAL PARASITES

External parasites mainly include mange, lice and myiasis.

Mange

It is caused by small parasites called mites that live in the skin. They provoke severe itching and irritation. Nowadays sarcoptic mange in pigs has been reported in all major swine producing countries and is prevalent in Brazilian swine herds. Lesions, or scabs, on the animals may start on any part of the body, but usually appear first on the head, around the eyes, nose, or ears; lesions may progress to hyperkeratosis and exfoliation of epidermal debris.

Symptoms

- The pig becomes itchy, and scratches and rubs against the walls of the sty and other objects with the skin between the legs, around the eyes, ears and neck being principally affected.
- The coat looks dull, and there are bare patches, heavy crusts, and lines on the body that look like ribs
- Restlessness and itching which can be very severe
- Red pimples on the skin, which turn into crusts and scabs. Later the skin looks very rough, is thickened and covered with flakes scratching. The skin may show red spots or bite wounds
- Thick skin and rough hair coat
- Anaemia in severe cases especially in piglets
- Death in severe cases

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Prevention

- Wash the sow before farrowing at least twice at a one-week interval.
- Boars should be washed at least four times a year.
- Treat gilts upon entering the farm and before serving.
- Wash all pigs at the beginning of fattening if mange is already a problem.
- Maintain proper animal nutrition and health program to reduce the severity and spread of mange.
- Recommended control products are: ivermectin (1% injectable), or malathion (1% spray).
- General cleanliness.

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Treatment

- Remove scales and dirt with soap and water and a stiff brush.
- Afterwards, the pig should be washed with organophosphate compounds.
- Repeat this treatment several times
- Ivermectin injection is a very effective treatment against mange and all other parasites.

- Spraying the animals with cattle dip also kills many parasites on the skin
- Herbal treatment: Smearing with coconut oil can be an effective control in cases of light contamination

Lice

These are bloodsuckers that also irritate the skin. The hog louse is the largest louse species (6,4mm) commonly associated with domestic animals. It is found most frequently in the folds of skin behind the ears and between the legs. The blood-sucking activity of hog lice results in much irritation and discomfort to swine

Symptoms

- Itching
- The skin may show red spots or bite wounds.
- Thick skin and rough hair coat.
- Anaemia in severe cases especially in piglets.

Prevention

- General cleanliness
- Treat piglets before putting them in fattening house. Fatteners don't need to be treated
- Treat gilts before their first service
- Treat boars twice a year
- Treat new stock on arrival and seven days later. Piglets below three weeks should not be treated

Treatment

- The insecticide benzene hexachloride is a very effective remedy (0.1 - 0.25% solution) against lice. Treatment should be repeated after 7 days since the insecticide only kills adults and not eggs.

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- Lice can be kept away to a certain extent by planting a pole sturdily in the ground at an angle of 45° with an old sack wound around it immersed in crude oil or used motor-oil.

Myiasis

Disease caused by flies, which lay eggs in the wounds. The eggs hatch into larvae which live and feed on the flesh and developed into pupate, and fall off when they mature, creating more wounds.

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Symptoms

- Infected wounds look very wet and dirty and the edges can be covered with a grey mass which are the eggs of flies.
- Later on, the larva can be seen as screw-shaped pinkish worms crawling through the wound.
- The pigs show annoyance and try to find a shabby place.
- Death may occur.

Prevention and Treatment

- Clean the wound daily with water and disinfectant then apply insecticide on the wound to cover edges too.
- Best working insecticides are the long-acting ones e.g. diazinon or supona.
- Good mange control program to prevent wounds smooth walls and floors.
- Do not use sharp objects.
- Avoid overcrowding to reduce fighting.
- Tail docking, ears notching and castration should be handled properly and the
- umbilical cord disinfected.

Deworming

Those dewormers that are currently approved for use are effective and usually safe when given according to label directions. These include ivermectin (Ivomec®), fenbendazole (Safe-Guard®), levamisole (Tramisol®, Levasole®), pyrantel (Banminth®), dichlorvos (Atgard®) and piperazine.

The deworming schedule should include pre-breeding for all breeding stock and pre-farrowing for gilts and sows, prevention of *Strongyloides* and roundworms in baby pigs, and one or more dewormings in weanling and growing pigs. Specific strategic schedules should be arranged with your veterinarian.

Boars - every 6 months

Sows - 2 weeks before farrowing and after weaning

Piglets - 1 week after weaning

Fatteners - 1 week after weaning and 3 months later

Gilts - 1 week after weaning, 3 months and at 7 months of age at least 2 weeks before service

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Module 7: Reproductive Disorders

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Anaphrodisiacs

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When the sow does not come on heat

Symptoms

No heat signs; This could be caused by low body weight due to poor feeding, overweight, mineral deficiency, intestinal worms, chronic disease, the animal has just given birth, heavy infestation with parasites

Prevention

- Improve feeding of mineral-rich feeds.
- Regularly deworm your animals.
- Allow the female to stay with the boar.

Treatment

- Gilts should not be treated at all because they may show anaphrodisiacs after every litter, if this hormone is used

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- Sows should be treated on the same day as weaning, and in very severe cases, 3 weeks after weaning
- Repeating treatment is of no use

Leptospirosis

Symptoms

- Fever, anorexia, diarrhoea, bloody urine, nervous symptoms caused by meningitis.
- Abortion in last trimester.
- In sows which are affected later, weak piglets are born.
- Mummified and macerated foetuses are common in the litters.
- Infertility associated with venereal spread may be responsible for repeat breeders.

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Prevention and Treatment

- Elimination of mites, rats and other rodents
- Vaccination and hygienic measures. Vaccines are not available for all types of the diseases and vaccination may not prevent bloody urine.
- Treat all sows with injection or streptomycin before serving.
- Use antibiotics especially streptomycin for all ages.

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Brucellosis

Symptoms

- Anorexia, fever, stiff legs, occasional lameness, early abortion (returns to oestrus 5 - 8 weeks after service as a result of infection of service)
- Infection later in pregnancy gives rise to litter with mummified, stillborn or weak piglets.
- Bloody vulva discharge and endometritis.
- Retained placenta.

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- Boars usually develop orchitis (inflammation of one or both testicles) and epididymitis within seven days of infection.
- The testicles are swollen and painful and permanent sterility can be the result.

Prevention and Treatment

- Prevention is based on hygienic measures and purchase of stock from clean herds only.
- Never treat by antibiotics.
- No treatment/vaccination is 100% effective
- Slaughter all animals and do restocking.
- Restocking should be after one month.

Uterine Prolapsed

Symptoms

- The appearance of the uterus outside the vulva.

Prevention and Treatment

~~The uterine~~ prolapsed reduction is often not possible since it is very traumatic and the best therapy is to amputate the whole uterus. ~~However~~, 50% of sows do not survive this operation, therefore slaughter should be considered.

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Mastitis

Mastitis is a bacterial infection which causes an inflammation of the mammary organ and results in changes in milk production. These bacteria enter the wounds in the udder.

Symptoms

- Swollen, hot and painful udder.
- Absence or reduction of milk in the affected udder.
- Sow refuses to suckle her piglets. As a result, piglets squeal due to hunger.
- Sow has depression and often fever.

Prevention

- Provide adequate bedding
- Keep pig pens clean, dry and free of sharp objects, clip milk teeth of baby pigs.

Treatment

- Gently massage the affected udder with lukewarm water.
- Do not allow the young to suck milk from the infected sow.
- Remove the milk from the infected udder and discard.
- Separate sow from piglets and reduce access to teats (allow a few piglets to suckle at a time). If possible, foster piglets to lactating mothers.
- Use antibiotics. Inject penicillin-streptomycin into the muscle of the hip or neck.

Birth Diarrhoea

Symptoms

- Acute diarrhoea in piglets is watery, yellowish-grey and within a very short time, piglets become thin with sunken eyes due to dehydration.
- Death can occur within 2 - 3 days. Death in piglets can occur even within one day before any sign of diarrhoea is observed.

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Prevention

- Keep pens, feed and watering troughs clean.
- Separate affected animals from healthy animals.
- Do not change abruptly an animal's ration.
- Make sure that piglets have sufficient colostrum within 36 hours of birth

Treatment

- Vaccination
- Plenty of drinking water with electrolytes
- Use of antibiotics.

- Herbal medicine: Fresh leaves of guava or star apple. This will treat the symptoms only.

Transmissible Gastroenteritis

Transmissible gastroenteritis is a common viral disease of the small intestine that causes vomiting and profuse diarrhoea in pigs of all ages. It spreads rapidly. Piglets less than one-week-old rarely survive the disease.

Symptoms

- Very high mortality mainly in piglets up to 14 days old.
- The piglets often vomit and have severe greenish-yellow watery diarrhoea, dehydration.
- In sows the diarrhoea is greyish, they vomit, abortion may occur.
- In fatteners, the symptoms are like those in sows

Prevention and Treatment

- Give electrolytes to piglets and keep them warm.
- Antibiotics prevent secondary infection but don't provide a cure.

Fat Diarrhoea

Symptoms

- Faeces are pasty and fatty, white or yellowish

Prevention and Treatment

- Remove creep feed for a few days.
- Use antibiotics as prescribed by a veterinary doctor.

Post Diarrhoea

Symptoms

- Diarrhoea with no traces of blood.
- Death from dehydration or blood poisoning (septicaemia).

Prevention and Treatment

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- Increase creep feed before weaning.
- Avoid stress to piglets by not mixing piglets from different litters.
- Good hygienic measures include roughage in the diet.
- Use antibiotics as prescribed by a veterinary doctor.

Salmonellosis

Symptoms

- High fever, dullness, anorexia, weakness, nervous symptoms.
- Bluish-red colouring of the ears, limbs and the centre of the belly.
- Bloody spots all over the body.
- Wasting and persistent greyish diarrhoea sometimes mixed with blood and shreds or necrotic material from the gut.

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Prevention and Treatment

- Normal hygienic measures pelleted feed, thorough cooking of the swill.
- Remove feed for two days and provide clean water.
- Use antibiotics as prescribed by a veterinary doctor.

Swine Dysentery

Known by several names, including bloody diarrhoea, haemorrhagic enteritis bloody scours and black scours. It affects pigs of all ages, sometimes causing death.

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Symptoms

- In acute cases wasting and passing of diarrhoea containing varying amounts of mucus, blood and necrotic material.
- Fever.
- In chronic cases, pigs have greyish or brownish faeces, rough hair coat and low growth rate.

Treatments

- Some herbal medicines (moringa tree leaves) can be used to relieve the symptoms of diarrhoea and dehydration
- Use antibiotics as prescribed by a veterinary doctor

Arthritis

Symptoms

- Inflammation of joints.
- Thick soft joints.

Prevention and Treatment

- Use antibiotics as prescribed by a veterinary doctor.

Streptococcal Infections

Symptoms

- Septicaemia (blood poisoning) which may cause immediate death.
- Young pigs rarely recover
- Sudden death in older pigs.
- Fever, nervous signs and arthritis mostly in weaners and fatteners.

Prevention and Treatment

- Proper hygiene.
- Wash sow before it enters the farrowing pen.
- Use antibiotics as prescribed by a veterinary doctor.

Other Diseases

Foot and mouth disease (FMD)

Foot-and-mouth disease is an acute, highly contagious, viral of animals with hooves, such as cattle, water buffalo, goats and pigs.

Symptoms

- Sudden onset of severe lameness, fever, the formation of vesicles on coronary bands.

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- Blisters can be found on thin-skinned areas like udder, teats, anal area and eyelids. These blisters rupture within one day.
- There may be frothy saliva, anorexia, sometimes hooves become loose and fall off.
- Sows may abort.

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Prevention and Treatment

- Vaccination
- Quarantine
- Proper cooking of swill.
- Slaughter and burial.

Swine Fever/Hog Cholera

Symptoms

- Lesions on the body
- Fall in temperature before the onset of clinical signs.
- Reddening of skin and ears.
- Incoordination of hind limbs.
- Constipation diarrhoea, anorexia.
- The animal dies the next day after the attack. 95 - 100% mortality.

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Prevention and Treatment

- Quarantine.
- Boiling of swill.
- Restriction of movement of meat from infected areas
- Vaccination
- Disinfection
- No therapy (treatment)

Anthrax

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Rare in pigs and associated with contaminated feed containing meat.

Symptoms

- Oedema and swelling of the neck region.
- Dyspnoea (breathing difficulty).
- Fever, anorexia and passage of bloody faeces.
- Sudden death.

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Prevention and Treatment

- Use antibiotics (penicillin) as prescribed by a veterinary doctor.
- Thorough disinfection of the farm and burning of carcasses.

Module 8: Pig Market

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Pig farming has been called **The Untapped Goldmine** and for good reason. You can market pork both on the local and international markets, the demand for this type of meat is rather high. China is the leading international consumer of pork. Pig farming for beginners can become a real challenge but if to read special books or search on the Internet, ask for advice of more experienced farmers, very soon you can become a successful pig farmer. Knowledge is always a big plus, if you comprehend business you will get profit and achieve success.

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Pig farming can also generate income in other ways than selling pork (raw, frozen or processed). Pig farmers can also make money through selling newborn pigs and selling pig manure which is used for fertilizing. It depends on you which of these things you make the main source of income, most often you can earn on them simultaneously. But the main element of income is meat.

Pig meat that we process by making sausages, etc. will be worth a lot more. Before you even start a pig farming business, you must plan exactly who will be your buyers. It's good to get in touch with the chefs of local restaurants, you can also sell on the farmers market, and to individual customers. As we have already

mentioned above, one of the best ways to maximize pig farming income is own meat processing followed by the sale of already processed pork.

Breeding Pigs and Selling Piglets to Other Farmers

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Another attractive and profitable way to earn pig farming is to breed and sell small pigs. On average, a sow has 2 litters a year. Should successfully raise an average of 16 pigs per sow.

Under natural conditions, there is a fairly high mortality rate of newborn pigs of up to 30-40%. The most common causes of death for newborn pigs are first of all suffocation from being overlain by the sow. Other common causes of deaths are chilling, failure of colostrum intake diarrhoea or birth defects.

Sows usually give birth at night. That is why a man needs to be near the sow when it is giving birth. Thanks to the presence of man, it is possible to significantly reduce the mortality of newborn pigs. By breeding your own pigs, you can sell small pigs to other farmers. You can also use these little pigs for breeding and selling for meat.

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