TIPS ON SWINE RAISING INTRODUCTION

Hog raising is a very popular enterprise in the Philippines such that there is a proliferation of backyard producers, which dominates the swine industry and a healthy viable commercial sector.

Despite the crises facing the swine industry, still many people are venturing in this enterprise. This manual hopes to bring appropriate technology to the interested farmers and would-be swine producers in order that they may realize profitable production and improve their quality of life.

BREED OF SWINE

There are many imported breeds in the country today and its sometimes difficult to determine the best breed most suited to our conditions. Here is a guide to help you select the breed to raise depending on your purpose, money and experience.

YORKSHIRE OR LARGEWHITE

Yorkshires are entirely white with medium, erect ears. Sows have superior mothering ability, farrow and wean large litters and are excellent milkers. They adapt well to confinement but not to rugged conditions.

Slaughter animals yield a high dressing percentage, produce fine quality meat and compare favorably with other breeds in growth and economy of gains.

LANDRACE

Landrace are white, have short legs and medium to large drooping ears. The sows are noted for their excellence in mothering ability and litter size. They are heavy milkers and produce pigs with superior rate of growth and efficiency in feed utilization. When crossed with other breeds, they produce pigs of highly acceptable carcass quality. They are however, weak on the feet and legs and have problems adapting to rugged conditions. Such defects should be corrected by proper selection and breeding.

DUROC

The Duroc color is of varying shades of red. The sows are prolific and are good mothers. They produce pigs that are superior in growth rate, feed conversion, and "their performance under rugged conditions is better than any of the white breeds.

HAMPSHIRE

Hampshires are black with a white belt around the shoulder and body. They are generally short legged and lack body thickness. The sows have a reputation of weaning a high percentage of the pigs farrowed and are able to adapt to very rugged conditions. The growth rate, however has generally been average or below.

BERKSHIRE

Berkshires are black with six white points -four white feet, some white in the face and tail. The ears are erect and inclined forward as the animal grows older. They are known for their style, meatiness and good adaptability to rugged conditions. They have desirable length, depth and balance ofbody but lack good growth and efficiency in converting feed to weigh gain. The sows are not as prolific as the other breeds.

PIETRAIN

The Pietrain is a very meaty type of pig with spotted black and white color. It has well-shaped hams, loin and shoulders. Ears are erect, The carcass has a high lean meat percentage, but it has a poor body constitution. Feed efficiency is not really good and they are a little bit slow grower. This breed is also highly susceptible to stress. Thus, Pietrain is only worthwhile in crosses but not as purebreeds.

Table 1,. Characteristics of the Different Breeds of Pigs

BREED	COLOR	EARS	TYPE	COUNTRY OF ORIGIN	OBSERVATIONS
Landrace	White	Hanging	Meat	Denmark	Long face, good mothers, weak legs, prolific
Large white	White	Standing	Meat	England	Fertile, high quality meat, fast grower
Bershire	Black w/ 6 white points	Standing	Meat	USA	Short, black skin, more resistant to diseases compared to white breeds
Hampshire	Black with white bands	Standing	Meat	USA	Short, good quality meat, strong legs
Duroc Jersey	Red (golden)	2/3 erect 1/3 hanging	Meat	USA	Good constitution, strong legs, fast grower, resistant to stress
Pietrain	Black & white	Standing	Very meaty	Belgium	Very meaty ham and very susceptible to stress

SELECTION CRITERIA

When selecting breeder sows on the basis of physical appearance, consider the following:

- The gilt should have well-developed udder with a minimum of six pairs of properly spaced function teats. A sow with poor udder development is likely to have poor milking capacity-
- Choose those which do not have inverted teats for such teats are inherited and do not secrete milk.
- A long body is more desirably in sows because it provides more space for udder development.
- The body should have uniform width from front to rear.
- Good development of the ham, loin and shoulder is required of a breeding animal.
- Must have sound and well-placed feet and legs. Animals with medium short feet and short upright pasterns are preferable.
- Make it a point to select the biggest animals within a litter.
- Female breeders should come from a litter of eight or more goodsized piglets with high survivability.
- Do not keep gilts that come from sows in which agalactia (failure to secrete milk) have been observed.
- Select vigorous and hardy pigs from a healthy litter in a herd raised under good swine sanitation. Do not keep gilts or boars nor breed from litters that have physical abnormalities. These may be inherited.

Most of the factors discussed in connection with a selection of gilt or sow also apply in the selection of a boar. However, the following pointers should also be considered:

- Masculinity, both in appearance and action, should predominate in the make-up of any boar.
- The primary sex organs should be clearly visible and be welldeveloped. Select only those boars whose testicles are of equal size.
- Select However, the best is to select a boar which has been proven and tested for boars with traits that can overcome the defects of the

herd. Minor defects in the boar may be ignored provided that they are not present among the sows.

HOUSING

In Generally, boars should be four to six months old at the time of selection. It whatever systems of operation, hog houses must be constructed properly to ensure maximum performance of the pigs. A good hog house may not improve the health conditions of the animals but a poor one will certainly increase disease problem easily.

- For a small or backyard operations, cheap and locally available materials may be used such as bamboo and nipa.
- Hog houses should be constructed on a slightly sloping and welldrained area so that it will not become too muddy and convenient to work in, t
- Permanent hog houses should have concrete floors for easy cleaning and to minimize the occurrence of parasites and diseases. Concrete floors must not be too rough to cause foot and leg problems nor too smooth to be slippery when wet.

FACILITIES AND EQUIPMENT

 Provide the pig house with the proper equipment such as feeders and drinking troughs. Feeders and water troughs are best made of concrete although i other materials may be used. Some people use discarded automobile or truck tires cut in halves.

Table 2.. Space Requirements for Different Classes of Swine*

TYPE OF	BEFORE BOAR FARROWING		GILTS	SOW WITH LITER		GROWING-FINISHING PIGS				
HOUSE	BOAR	SOW	ING	GILIS	Young	Mature	10-20	20-40	40-70	70-100
							Kg	Kg.	Kg.	Kg.
Farrowing hous Pen size (min) Stall size (tota Stall width, cm	m ² 1.85 l) m ²		1.580		5.948 3.903 60.96		 	 	- -	
Growing-Finishing House:										
Solid Floor (to	tal) m² -					.4656	.5674	.74-	.84	.84-1.11
Pigs per water	ing cup (h	nole) 1 10	12	4	4	20-25	20-25	20-	25	20-25
Pigs per feeder	hole 1	2	3	1	1	4	3	3	3	3
*Source: Squibb Swine Farming Manual										

- In bigger operations, farrowing stalls are important to reduce piglet mortality due to crushing of piglets.
- Heat lamps or electric brooders are needed for survival of newborn pigs. In places where the use of heat lamps is not possible, a box lined with old sacks or thickly bedded straw, rice hull or saw dust can keep the pigs warm and comfortable.

BREEDING MANAGEMENT

Most gilts of the improved breeds reach the age of puberty at about six to eight months of age but they should not be bred until they are eight months of age or are weighing about 90 to 100 kg.

CARE AND MANAGEMENT OF THE SOW

- Regulate the feed intake of gilts or sows immediately after breeding to pre- vent them from becoming too fat. Obesity of pregnant sows may result to a fewer number of pigs farrowed. Also, they may suffer from farrowing complications.
- Keep the pregnant sow in an environment ideal for better conception.
 Sprinkle water on the sows when the weather is too hot or whenever necessary.
- To avoid constipation, provide healthy but a laxative ration. Provide plenty of water and newly harvested green feeds such as camote vines, kangkong, Paragrass and water lily.
- Deworm sows and gilts against internal parasites and treat external parasites 14 days before expected date of farrowing.
- In commercial operations, the sow should be transferred to the farrowing house one week before farrowing to provide her time to adjust to new environment.
- On the average, a sow will farrow in 114 days after a successful mating. The usual range is 109-119 days. Watch out for the following signs:
 - the abdomen swells
 - the sow becomes restless and nervous
 - the vulva is swollen with possible mucus discharge
 - milk is present in the teats if pressed
- Attend to the sow during birth because this is the most crucial time in the life of the new born piglets.

- Full-feed the sow or gilt with a high energy ration for about two weeks before mating to ensure maximum ovulation rate.
- Observe proper time of mating to ensure maximum litter size. A sow is in heat if she exhibits one or more of the following symptoms:
 - swelling and reddening of the vulva
 - mucous discharge from the vulva
 - restlessness and grunts frequently
 - mounting other pigs
 - frequent urination
 - cocks her ears frequently
- Mate each gilt or sow twice to the same boar in one heat period with an interval of 12 to 25 hours.
- A boar-to-sow ration of I:25 -30 is generally recommended.

CARE OF THE BOAR

- In commercial operations, a new boar should always be checked for fertility and diseases associated with abortion and birth of dead pigs.
- Regulate the breeding load of a boar.

Recommended breeding load of boars at different ages

Ages, months	No. of Services per week		
7 or less	None		
8-10	1 or ever 5-10 days		
11	1 or every 4 days		
12	2 or every 3 days		
18 and over	3-7 or every other day		

CARE AND MANAGEMENT OF PIGMENTS AT FARROWING TIME

- Prepare farrowing materials and equipment before farrowing dates.
- Using a clean dry cloth, wipe the mucous membrane and other birth material from the mouth and nose of new born pigs. Assist the piglet in breathing by swinging its head down or slapping it for a few seconds.
- Tie string around umbilical cord two inches from the base and cut with a sharp pair of surgical scissors~ Do not pull the cord away from the

body while cutting so as not to cause hernia. Dip injured tip of cord into bottle of tincture of iodine.

- Place piglets in piglet box underneath a heater. Whenever necessary, a 100- watt bulb is enough to provide the desired temperature. This can be changed to a 50-watt bulb after 14 days of brooding.
- Cut the needle teeth. This is done by holding the pig firmly by one hand with three fingers supporting the jaw and the thumb pressing against the back of the neck. Insert the forefinger to one side of the mouth just behind the needle teeth reaching for the tip of the tongue. With a side-cutting nipper or ordinary nail cutter cut close to the gum level. Do not make a slanted cut or leave jagged edges for these are likely to cause injuries to the gums and tongue of the piglet and teats of the mother. Clean and disinfect nipper before working with another piglet.
- Let the piglets suck the first milk (colostrum). Colostrum contains antibodies needed by the baby pigs to fight against diseases during the early life.
- Iron reserves in the body of a newborn piglet is consumed in a week's time. Injection of commercial iron dextran is necessary to prevent piglet or new- born anemia. Repeat administration 14 days after birth or as soon as symptoms are detected.
- Wean piglets at four to six weeks of age. When weaning is done earlier than 56 days, a sow can farrow from four to five times in two years since sows usually come in heat from three to seven days after weaning. The proper procedure in weaning is to remove the sow, leaving the piglets in familiar surroundings.
- It is also important that all other routinary management practices like deworming, castration,a1 i ear notching or tattooing are carried out before weaning.

CARE AND MANAGEMENT OF GROWING-FINISHING PIGS

- Management requirements are less demanding, nevertheless they must be provided with ample protection against pests and diseases and fed in accordance with their requirements.
- Deworm pigs one or two weeks after weaning.
- Vaccinate pigs one or two weeks after weaning or one week after deworming.
- Sell or butcher pigs when they reach profitable market size of at least 80 kilogram. Slow-growing pigs despite good feeding and management should be disposed immediately. Keeping them longer is uneconomical.

 It is important to know information on the prevailing market prices of pork. It E is also important to know the exact weights of the live animals and sell the pigs on weight basis.

OTHER ROUTINE MANAGEMENT PRACTICES

- In backyard operations, identification of pigs is done through outstanding marks on the haircoat. In commercial farms, identification is through earnotching and tattooing.
- Castration or the removal of the primary sex organ of the male is best done on pigs about two weeks of age or earlier. This is done to improve the meat I quality and to prevent the perpetuation of undesirable individuals. Consider the condition of the male animal and the surrounding environment when castrating.

FEEDING MANAGEMENT

- If the milk supply of the sow is inadequate to feed her piglets, supplement her with a good creep ration. Use a milk replacer. Choose many available brands-
- Begin feeding a commercial good pre-starter ration when the pigs are about one week of age.
- The ration of the pigs should be changed at different stages of growth but the shift from one ration to another should be done gradually in order not to upset the normal feeding behavior of the pigs. Always allow a transition period of at least one week before making changes.
- A starter ration is given to pigs from weaning until two months of age and weighing about 10 to 25 kilograms.
- The grower ration is next given to pigs when they are 30 to 35 kgs. or two months old until they are about 15 to 20 weeks old.
- When pigs reach 60 kg. or are about 20 weeks old, a finisher ration is given.
- In formulating a simplified ration, keep in mind that it should always contain sufficient energy, protein as well as adequate amounts of vitamins and minerals.
- Cassava, camote, corn, and corn by-products and discards from slaughterhouses, which are abundant in some parts of the country may be used provided they are properly cooked and dried.
- Dry feeding is practiced in commercial operations for reasons of economy in labor and in feeding equipment. Wet feeding is mostly practiced by backyard producers.

• Provide clean drinking water at all times.

Presented herein are sample rations for the different classes of swine.

Sample 1 -Daily Feed Requirement for 10 piglets from 7 kg. to 10 kg.

FEED INGREDIENTS	AMOUNT
Yellow corn Rice bran Copra meal Fish meal Soybean oil meal Skimmed milk Ipil-ipil leaf meal	0.9 kg. or 900 g. 0.1 kg. or 100 g. 0.1 kg. or 100 g. 0.1 kg. or 100 g. 0.5 kg. or 100 g. 0.1 kg. or 100 g. 0.1 kg. or 100 g.
Brown sugar Vitamins-mineral TOTAL	0.1 kg. or 100 g. 0.1 kg. or 100 g. 2.1 kg.

Sample 2- Daily Feed Allowance for 5 pigs weighing 10 kg. up to 30 kg. or 21/2 to 3 months old.

FEED INGREDIENTS	AMOUNT
Yellow corn	3.0 kg.
Rice bran	1.2 kg.
Copra meal	0.7 kg.
Fish meal	0.3 kg.
Soybean oil meal	0.9 kg.
Skimmed milk	0.1 kg.
Ipil-ipil leaf meal	0.2 kg.
Brown sugar	0.1 kg.
Oyster shell powder	1.9 g.
Salt	9.0 g.
Vitamins-mineral	30.0 g.
TOTAL	8.44 kg.

Sample 3 - Daily Feed Allowance for 5 pigs weighing 25 kg. up to 65 kg. or 2.5 to 3 months up to 5 to 6 months old.

FEED INGREDIENTS	AMOUNT
Yellow corn	3.6 kg.
Rice bran	0.4 kg.
Copra meal	2.0 kg.
Fish meal	0.2 kg.
Soybean oil meal	0.4 kg.
Ipil-ipil leaf meal	0.6 kg.
Oyster shell powder	28.0 g.
Salt	40.0 g.
Vitamins-mineral	47.0 g.
TOTAL	9.6 kg.

Sample 4 - Daily Feed Allowance for 5 pigs weighing 60 to 65 kg. to market weight of 90 to 100 kg.

FEED INGREDIENTS	AMOUNT
Yellow corn Corn cobs	4.6 kg. 1.1 kg.
Rice bran	3.6 kg.
Copra meal	3.0 kg.
Fish meal	0.2 kg.
lpil-ipil leaf meal	0.7 kg.
Oyster shell powder	60.0 g.
Salt	60.0 g.
TOTAL	13.3 kg.

Table 3. Daily Feed Intake

		1	
Age of Pigs	Liveweight	Daily Feed Intake	
(weeks)	(weeks)	(kg.)	
(weeks) 10 - 12 12 - 13 13 - 15 16 17 18 19 20 21	(weeks) 20 - 25 25 - 30 30 - 35 35 - 40 40 - 45 45 - 50 50 - 55 55 - 60 60 - 65	(kg.) Up to 1.2 1.2 – 1.4 1.4 – 1.6 1.6 – 1.8 1.8 – 1.9 1.9 – 2.0 2.0 – 2.1 2.1 – 2.2 2.2 – 2.3	
22	65 – 70	2.3 - 2.4	
23	70 – 75	2.4 - 2.5	
24	75 – 80	2.5 - 2.6	
25	80 – 85	2.6 - 2.7	
26	85 – 90	2.7 - 2.8	
27	90 – 95	2.8 - 2.9	
28	95 – 100	2.9 - 3.0	

RECORD KEEPING

Record keeping must be simple and precise. This can be used as a guide for improvements or adjustments to be done. This will also be helpful in the day to day operation. Through record keeping, profitability can be easily determined.

The kind of record that we keep depends on the particular aspect of swine enterprise that we want to emphasize.

Type of Records Kept

- Technical records regarding production and schedule in the farm. Example: age of the sow, farrowing date, number of piglets
- Economics records regarding the financi~1 aspect of the operation. Example: price of meat, price of weanlings, price of feeds

Table 4. Example of a Record

SALES/DISPERSAL OF PIGLETS

Date	No. of Head	Age	Total Weight	Value (P)	Remarks
TOTAL					

MARKETING

Marketing is the last job done on growing-finishing pigs. Hogs are marketed when they reach at least 80 kg.

Marketable hogs may be sold to middlemen who usually act as buying or selling agents, direct to meat processors without the intervention of a middleman, or in auction markets where animals are sold to the buyers who offers the highest accept- able price per kilo liveweight or per head.

When a large number of hogs are to be marketed, the producer must observe proper shipment and transport handling to minimize losses due to shrinkage, bruises, injuries and possible deaths. Here are some tips:

- When transporting hogs, separate the large animals from small pigs by a partition.
- Provide loading facilities for easier and proper loading of pigs.
- If necessary provide beddings of sand or saw dust. When the weather is hot, wet down the beddings before loading to keep the pigs cool and comfortable.
- Do not overload nor underload the truck.
- Do not excite or over-heat hogs. Give the hogs enough rest and leave them undisturbed until they are butchered.
- Do not overfeed hogs before transport to avoid suffocation or vomiting.

HEALTH MANAGEMENT

- Keep buildings, run-ways, pens and equipment clean always. Sanitize and disinfect them regularly.
- Quarantine or isolate animals recently brought from other sources.

- When buying breeder stocks for replacement, make certain that the animals have been immunized against prevalent diseases in the area such as hog cholera and swine plague.
- Always seek the advice/services of the nearest veterinarian and/or government technician or the office of the Bureau of Animal Industry.

COMMON DISEASES AND PARASITES

Hog Cholera or Swine Fever

Pigs get contaminated through direct contact or by eating uncooked slops or kitchen scraps containing the virus.

SIGNS.

- * Fever, loss of appetite
- Increased thirst, chills and sometimes vomiting.
- * Constipation, later followed by diarrhea
- * Inflammation of the eye (conjunctivitis) thick discharges causing eyelids to stick together
- * Reddish, purple discoloration of skin at ears, abdomen, inner thighs or tail
- * Death ensues 4- 7 days after onset of signs
- Prolonged duration of illness (chronic form) terminates in pneumonia or hemorrhagic enteritis, or both

PREVENTION AND CONTROL.

- Vaccinate all pigs against the disease using a reliable vaccine, weanling at one week before or after weaning-; sows and boars, every six months.
- * Dispose all pigs known to have the disease. Disinfect contaminated pens and premises properly.
- * Avoid giving uncooked slops or kitchen scraps to pigs which are common sources of infection.

Swine Dysentery

SIGNS.

- Loss of appetite
- * Fever
- * Rough coat and weakness
- * Watery feces flecked with mucus or blood

PREVENTION AND TREATMENT

- * Antibiotics in feed for two weeks when disease is prevalent
- Quarantine new arrivals for a week and feed high level antibiotics

Pneumonia-Disease Complex

SIGNS.

- Coughing
- Eye and nasal discharge
- Difficult breathing (abdominal nature) .
- * Chiling
- Muscular cramps .Sneezing

Pneumonia symptoms are associated with the following conditions:

- * Swine Plague -usually a complication of swine
- * Enzootic Pneumonia -impaired growth and feed conversion rates for long time with frequent attacks of persistent dry cough.
- * Swine Flu -exposure to stress, particularly cold and inclement weather; poor drafty environment also favors chiling of susceptible pigs.
- * Athropic Rhinitis -lateral distortion of nose, excessive sneezing of even week-old piglets.

PREVENTION

- * Improve management and emphasize dry, clean, draft-free and well-ventilated housing.
- * Avoid overcrowding, as most respiratory disease are transmitted by inhalation of infected air particles.
- * Provide plenty of clean, fresh water, nutritious feed and vitamin-antibiotic feed supplement.

TREATMENT

* There is no specific treatment for swine flu, swine plague and enzootic pneumonia. However, antibiotics like tetracyclines and sulfas may be of benefit. Respiratory stimulants and antiseptics as well as good nursing care speed up recovery.

For Atrophic Rhinitis, the following therapeutic approach is recommended:

- Sulfamethazine in feeds.
- Sulfathiazole in water -1/3 to 1/2 gram per gallon.

Brucellosis Of Pigs Or Contagious Abortion

CAUSE HISTORY

Bruce/la suis

- * Abortion when sow is at second or third month of pregnancy.
- * Irregular heat cycles, presence of repeat breeders.
- * Still births

SIGNS

- * Aborted fetus
- Small litters or weak piglets
- Mayor may not have metritis
- * Localization of agent in joint causes in coordination, paralysis and lameness.
- Not necessarily fatal unless complicated by metritis

PREVENTION

- * High incidence of the disease necessitates replacement of entire herd and restocking after 6 -8 months.
- * Apply strict hygienic measures on farm.
- Purchase breeding animals from certified negative herds.
- * As there is no satisfactory vaccine or treatment, the practical approach is to test and dispose of positive cases.

Scouring (Diarrhea) Or Gastroenteritis Complex

CAUSE

Irritation of the small intestine by parasites, bacteria, or by sudden change of diet. It is caused by various carriers or conditions:

- * Dietary Scours brought about by sudden change in feed or irregular feeding.
- * Colibacillosis from contaminated water supply, change in feed which upsets balance of bacteria in intestines, and stress factors like weaning, vaccination, transfer to other pens.
- * *TGE* due to introduction of new pigs, some may be carriers of the virus; mixing animals of different ages.
- Balantidiosis usually brought about by contaminated drinking water and/or contaminated forage such as kangkong.
- * Dysentery -associated with any form stress like transport or change of feed, feeding of contaminated kitchen slops.
- * Gastro-intestinal Parasites -overcrowding of animals, lack of deworming program.
- Dehydration is the biggest problem and can cause death in most cases; it must be immediately corrected by giving fluids. Effective treatment and control depend on correct diagnosis or identification of cause. This is quite difficult because of the complicated nature of the disease, so it is best to consult a veterinarian for confirmation

of diagnosis. Emphasize preventive aspects of management, as treatment is both difficult and expensive.

MMA (Mastitis -Metritis -Agalactia Syndrome)

CAUSE

Mastitis and agalactia (absence or lack of milk) arise from non-specific, or unknown causes. It may be due to infection or stresses like excitement, difficult farrowing, digestive trouble of dietary origin and other, environmental factors. Metritis is a non-specific inflammation of the uterus and is associated with retained placenta, abortion or difficult delivery (dystocia).

SIGNS

- * Temperature above or below normal
- * Discharge of reddish brown mucus mixed with shreds of placental membranes that attract flies.
- * Tenderness and warmth in mammary tissue.

PREVENTION

- Check health status of breeding sows. Replace those with history of breeding troubles.
- * Proper diet, exercise, and provision of clean, disinfected far- rowing pens reduce incidence of farrowing troubles.
- Mild, light laxative feed for sow is recommended after farrowing.
- Eliminate stresses and possible causes of udder injuries.

TREATMENT

- * Antibiotic infusion into udder; apply hot compress and mild antiseptic externally.
- * Administer pituit'4TY extract containing oxytoxin.
- * Treat metritis locally by inserting pessaries or antibiotics in- side uterus and systematically by injection of sulfa drugs and other antibiotics.

ROUNDWORM INFECTION

CAUSE Large round worm (Ascaris lumbricoides)

SIGNS Depends largely on the number of worms

> present in animals, kind of management and nutrition of pigs. Pigs manifest slow growth rate, thinness, thick growth of hair which is usually dull and lacking normal luster. Sometimes, pigs

vomit worms or expel worms in the feces.

TREATMENT Oral administration of dewormer through feed or

drinking water. Piperazine dewormers are

usually effective.

MANGE

CAUSE Direct contact with affected animal or

contaminated objects and farm equipment.

SIGNS

Intense itchiness, forcing animal to rub vigorously affected portion of the body against wall of pen. At first, affected skin is reddened but, after sometime, skin becomes thickened, scaly, and wrinkled.

TREATMENT Spray animal with insecticidal preparations

indicated for mange. Repeated spraying is necessary to attain satisfaction results. Likewise, spray animal's quarters particularly floors and walls to kill mites hiding in cracks and

crevices.

INPUTS IN PRODUCTION

A. BACKYARD OPERATION

1. INVESTMENTS

- A livable hog house with concrete floor. a.
- Purchase of seed stock or foundation anima b.

2. OPERATING EXPENSES

- Feeds a.
- Veterinary medicines, vaccines, feed supplements b.
- Livestock insurance C.

B. COMMERCIAL/LARGE SCALE OPERATION

1. INVESTMENTS

a. Hog houses

Farrowing house/stall Gilt/Dry/Gestating house

Boar house (may be omitted if A.I. is to used)

Weanling House

Growing/Fattening house Isolation house

b. Equipment

Water pump

Electrical connections

Hammherwill -b/ Feed mixer - b/

Hog scale -portable units or tape measure

Other farm tools

Spade and spading fork Wheel barrow and rake

2. PURCHASE OF STOCK

Gilts/Sows Boars

3. OPERATING EXPENSES

Hog Feeds

Veterinary medicines, drugs, vaccines, feed

supplements

Labor

Repair and maintenance of buildings

Maintenance of Machinery and Equipment

GLOSSARY

To better understand the terms contained in the context, a glossary of technical terms is given meaning in the national language:

age ofpuberty

maglahi

edad ng baboy na maari ng palahian o

body thickness - malaki ang pangangatawan; mataba at

malaman ang katawan

carcass quality - uri ng kame

castration - pagkapon ng lalaking baboy

conception - pagbubuntis

constipation - hirap sa pagdumi

ear notching - uri ng pagmarka o palatandaan sa baboy

sa pamamagitan ng pagpilas sa parte ng

dalawang tainga

economy of gains - malaking tubo sa kaunting pinuhunan

farrowing - panganganak ng inahing baboy

feed conversion - tumutukoy sa kakayahan ng baboy na ipalit

ang isang kilong pagkain sa karagdagang

timbang.

fertility - kakayahang mag-anak

functional teats - magandang tubo ng utong na may

ikakayahang magpagatas

gilt - dumalaga; hindi pa nanganganak na

babaing baboy

inverted teats - papaloob na tubo ng utong "

litter size - bilang ng biik sa isang anakan

mothering ability - nagtutukoy sa katangian ng inahin na mag-

alaga sa kaniyang mga anak

pastern - parte sa paa ng baboy; sakong

prolificacy - katangian ng inahin na nagtutukoy sa dami

at bilis ng pag-aanak; palaanak

sloping - patagilid; pababa

still birth - patay ng isilang na biik

slops/kitchen scraps - kaning-baboy mula sa mga labi sa kusina

tattooing pagmarka o paglagay ng numero sa tainga

ng baboy sa pamamagitan ng pagtatato.

pagbibigay ng karapat-dapat na gamot para sa sakit na dumapo sa hayop. therapeutic

udder suso ng hayop na babae

umbilical cord pusod

pagwalay ng inahin sa mga biik weaning

weanling biik na naawat

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