

J. J. J.

JONESTOWN FARM
SWINE BREEDING PLAN
5 YEAR EXPANSION

The attached piggery expansion is primarily based on the concept that we will be able to develop our own feed rather than purchasing commercial feed. We are doing more research and planning in this area and at the present it looks rather promising. When the first few litters are born, we will be conducting a feed trial on 4 pigs and compare their weight and growth gains to piglets on commercial feed. The feed we are researching will consist of cassava tops, cassava tubers, wing beans, wing bean vines, and trace mineral powder added. We feel that we should try to develop our own feed from what we grow here in Jonestown rather than from outside areas to help reduce purchasing and transportation costs. We are planning to plant some acreage around the piggery in some test crops to be devoted to developing this animal feed.

In an attempt to show the proposed expansion of the pig population, we found it necessary to use a flow chart to indicate the four (4) different time periods that we will be dealing with in the pigs. The time periods are as follows:

- 1.) 365 days - physical year
- 2.) 219 days between litters of piglets:
 - A.) 114 gestation period (pregnancy period)
 - B.) 105 lactation (nursing) period and rest time
- 3.) 200 days - Approximate time required for piglet to reach maturity
- 4.) 240 Days - Young sows reach maturity and can be bred

This graph indicates the flow of the litters of pigs being born and reaching maturity age when they can be either slaughtered or sold. This will help us to plan how many sows to breed at a given time to prevent a build-up of mature pigs. It also shows you the number of piglets that haven't reached the 200 day maturity at the end of the year, the number of brood sows, boars, and mature pigs for either slaughter or market.

The basic plan is to breed the sows as groups of 16 with 8 being bred relatively close together. It is more profitable to have each sow produce four litters and then remove her from the herd. In this manner, she is productive and the piglets pay for her expense of feed and other costs. Naturally if the sow throws bad litters, meaning

not very many or else unhealthy piglets, you would replace her and not breed her four times.

From the first group of piglets, you would select 16 of the best young sows. This plan will be carried out each year until you have 48 producing sows. From this point on, you would remove 16 sows each year that have had four litters of piglets, as you replace them with 16 young sows. This will stabilize the herd at this point unless you wanted to increase the herd size and then you would introduce more young sows each year.

The building plan and organization for handling this expansion is based on the sow and her litters being in the pigger #1 (Upper Piggery) until 6 - 8 weeks of age and then the brood sow will be put back into one of the holding pens for the sows. The piglets will be moved to Piggery #2 (Lower Piggery) where they will be kept in the pens until they are large enough to go into the outside holding pens which will involve about 1 1/2 to 2 months in that building. By doing it in this manner and staggering the breeding of the sows, we should not need another building until the next third year except for a feed-storage building.

We will be needing acreage for pastures or holding pens along with acreage for growing crops that will be used for livestock feed. We will be getting with the analysts with this plan.

Thank You Dad,

C-8-a-436

SP-2-5-0

**JONESTOWN FARM
SWINE BREEDING PLAN
Projected Pig Sales**

SALES REVENUE

1st Year:

112 Pigs @ 200 lbs est.= 22,400 lbs	\$36,960.00
86 Pigs @ 245 lbs est.= 21,070 lbs x1.65=	<u> </u>
Less 1st Year feed Costs	<u>32,130.04</u>
	\$ 4,829.96 Gross Profit

2nd Year:

240 Pigs @ 200 lbs est.=48,000 lbs	
1 Pig @ 500 lbs est.= 500 lbs(48,500 X\$1.65)	\$80,025.00 Gross Sales
Less Feed Costs	<u>75,993.08</u>
	\$ 4,031.92 Gross profit

3rd Year:

996 Pigs @ 200 lbs est=99,200 lbs	
16 Pigs @ 400 lbs est= 6,400 lbs	
1 Pig @ 500 lbs est= <u>500 lbs</u>	
106,100f X \$1.65	\$175,065.00 Gross Sales
Less Feed Costs	<u>101,439.12</u>
	\$ 73,576.88 Gross Profit

Alternate Feed Program:

1st Year: Same poundage as above	\$36,960.00 Gross Sales
Less Feed Costs	<u>25,563.00</u>
	\$11,397.00 Gross Profit

2nd Year: Same Poundage as above	\$80,025.00 Gross Sales
Less Feed Costs	<u>56,997.00</u>
	\$23,028.00 Gross Profit

3rd Year: Same Poundage as above	\$175,065.00 Gross Sales
Less Feed Costs	<u>72,862.00</u>
	\$102,203.00 Gross Profit

JOHN PROSS FARM
 SWINE BREEDING PLAN
 Projected Feed Usage & Costs
 5 Year Expansion

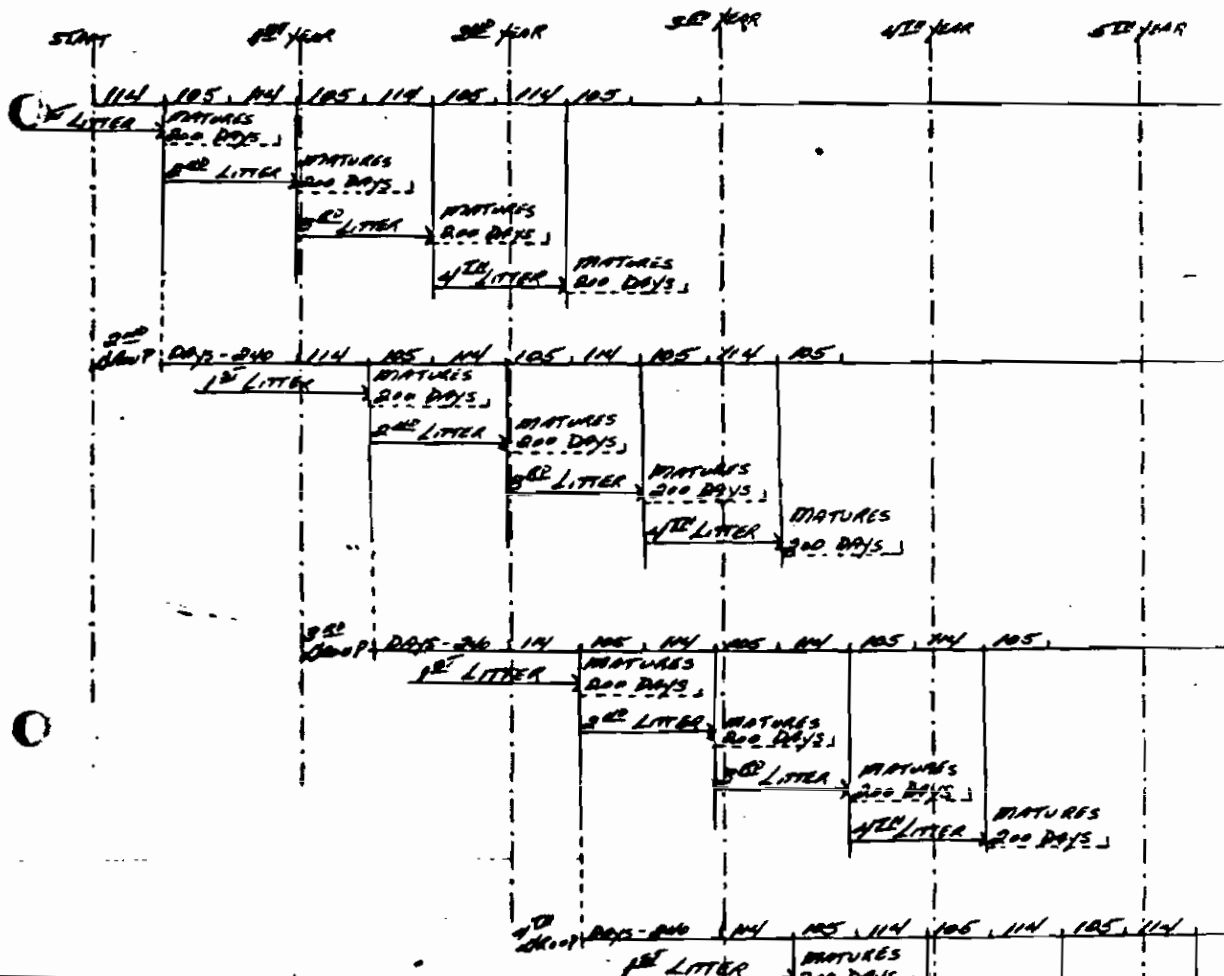
	1st Year		2nd Year		3rd Year	
	Pounds	Cost	Pounds	Cost	Pounds	Cost
Commercial Feeds:						
Sows	84,480	\$13,516.80	138,432	\$22,149.12	127,168	\$20,346.88
Pigs	115,584	18,613.24	232,408	53,843.96	505,856	81,151.24
Total:	200,064	\$32,130.04	475,340	\$75,993.08	633,024	\$101,488.12

	1st Year		2nd Year		3rd Year	
	Pounds	Cost	Pounds	Cost	Pounds	Cost
Alternate (Mixed) Feeds:						
Sows	84,480	\$13,516.80	138,432	\$22,149.12	127,168	\$20,346.88
Pigs (0.647X Com)	115,584	12,046.01	232,408	24,848.75	505,856	52,516.03
Total:	200,064	\$25,563.61	475,840	\$46,997.87	633,024	\$72,862.91

Note: The population of the piggery is stabilised at the end of the third year, therefore the food consumption and expense for the following fourth and fifth year will be the same as that of the third. The alternate feed program is based on using 50% purchased commercial feed mixed with farmgrown feed on a 50% ratio also.

Special Note: Approx costs @ 5¢ per lb
Cost of 1st Year Alternates Cost of 3rd Year Alternates:
 0 4,534.64 - weekly 0 14,445.86 - weekly
 0 18,785.30 - monthly 0 45,079.52 - monthly
 0 225,599.55 - yearly 0 559,809.04 - yearly
 (approx gross fees)

JONESTOWN FARM * * * * * FLOW CHART OF 5 YEAR BREEDING PLAN - SWINE



TYPE	Year 1	Year 2	Year 3	Year 4	Year 5
Young Boar	1	1	1	1	1
Adult Boar	2	3	3	3	3
Sows	32	48	48	48	48
Piglets	128	256	256	256	256
Nature Pigs	112	240	496	496	496
Cull Sows	-0-	-0-	16	16	16
Cull Boars	1	1	1	1	1
Total Pig Pop.	364	549	821	821	821
Ttl. Market Pigs	198	241	513	513	513
Ttl. Herd Pop.	163	308	308	308	308
Liveweight lbs	39304	48,500	106,100	106,100	106,100
Slaughterweight	29,304	35,890	78,514	78,514	78,514

TOTAL ACRES 416.53

BOX 1
3/4 AC

BOX 2
3/4 AC

BOX 3
3/4 AC

Young
BOX 4
1/4 AC

PASTURE A
4.53 ACRES

PASTURE B
4.0 ACRES

MIDDLE WARD
0-2 months

SLAUGHTER PEN
PASTURE 5
6.4 ACRES

PASTURE 2
3 ACRES
(NATURAL SUNNY TERRACE)
EXERCISE AREA

LOWER PASTURE
3-4 months old
4.0 ACRES

PASTURE 1
4.0 ACRES
NOT SELECTED 16
BLOOD SOW TEAM
(YOUNG LITTER)

