

## LIVESTOCK DEVELOPMENT NOTES: NO 8

**PRACTICAL FINANCIAL AND RECORD KEEPING PROCEDURES IN MANAGING A CHICKEN PROJECT**

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**ABSTRACT**

*A guide to projecting the cost and income and maintaining records of stock, feed and sales of produce for the benefit of cost benefit analysis of both broiler and layer chicken projects are outlined.*

**Key words:** poultry, budgets, cash flow, record keeping, cost benefit analysis

**INTRODUCTION**

Like any other business ventures, poultry projects also require careful planning in projecting what it will cost in establishing the project and how much income it will generate.

Sadly, this has not been the case for the majority of the chicken projects that have been established, particularly, those in the rural areas. These projects have been established just because someone nearby is making some monies from raising chickens, or simply, "I have money I will therefore raise some chickens". Ask how much it will cost to set-up the project and how much income will be generated, the most common answer is, "I don't know". The farmer can be excused for saying such, but it should be the last thing to hear from a Didimen/meri. Surely, the farmer deserves better and the Didimen/meri should assist as much as possible in the process of planning the project.

**FINANCIAL PLANNING****Budgets**

When considering the project costs and possible incomes one is actually drawing up a financial plan (budget) of the project over a period

of time. There are two types of budget: a total and a partial budget. The total budget is drawn up when information is needed to operate a number of businesses or a farm producing a number of products. While a partial budget is used to assess the success of part of the business. Some of the necessary information required in drawing up budgets for chicken projects are as follows:

- Determine the size and type of the projects,
- Possible source of funds or finance,
- The market situation for the product(s),
- Type of management of the project,
- Setting of the infrastructure or buildings, etc.,
- Source of supply of materials, feeds, chickens etc.

Thus, the whole exercise attempts to put into picture three important components, namely:

- Cost of production or expenses,
- Receipts or income,
- Cash-flow.

**Expenses**

This part of the budget attempts to show the cost of establishing and running the project. It details the cost of capital assets such as build-



**Table 3: An example feed record for a broiler chicken project**

Batch No: 1 House No: 1  
 No. Purchased: 500 Date at day old: 01/01/95

	Feed Given		Feed Purchased		Feed Remaining	
Date	Bags	Kg	Bags	Kg	Bags	Kg
Store			-	-	-	-
28/12/94			S10	500	10	500
29/12/94			S 6	300	16	800
01/01/95	1	50	-	-	15	750
06/01/95	1	100	-	-	14	700
09/01/95	1	50	-	-	13	650
11/01/95	2	100	-	-	11	550
13/01/95	1	50	-	-	10	500
15/01/95	2	100	-	-	8	400
17/01/95	1	50	-	-	7	350
19/01/95	2	100	-	-	5	250
22/01/95	1	50	-	-	4	200
25/01/95	2	100	-	-	2	100
26/01/95	-	-	F20	1000	22	1100
28/01/95	-	-	F12	600	34	1700
28/01/95	2	100	-	-	32	1600
30/01/95	2	100	-	-	30	1500
10/02/95	3	150	-	-	27	1350
Feed type	S	800	16	800	-	-
	F	1600	32	1600	-	-
<b>Total</b>		<b>2400</b>	<b>48</b>	<b>2400</b>	<b>27</b>	<b>1350</b>

Feed types: S-broiler starter, F - broiler finisher

ings, poultry equipment and water supply system, their life span and the cost of depreciation of these assets. The labour cost involved in establishing and running the project and of course, the cost of consumables and services such as feed, stock, transport and vaccination are also shown as part of expenses. Besides, if capital has been borrowed this will also be shown in terms of interest payment.

### Receipts

This part of the budget predicts the value of the product(s) produced. The selling price of the produce should be a calculated estimate, however, since selling price(s) depends on market demand and the competition between producers, using one price alone may give a false

impression on the value of the produce. Therefore it would be best using different prices for a produce. For example, when determining the receipts from a broiler project, 3 to 4 selling prices (e.g. K3, K4, K5 and K6) of the product should be used. This will predict what is the lowest or highest level of receipts that can be expected from the project.

### Cash flow

This is a long term development plan designed to show how much money is available for the running and continuation of the project. It helps the owner to see when during the operation of the project there is cash available for new activities, for personal or family expenses and when changes need to be made to save money for

**Table 4: An example cost benefit record for a broiler chicken project**

Batch No: 1 House No: 1  
 No. purchased: 500 Date at day old: 02/02/95

Expenses		Receipts	
Item	Kina	Item	Kina
Litter	10.00		
Day old	200.00	20 live sale K3 each	60.00
Freight	40.00	15 live sale K4 each	60.00
Vaccination	5.00	200 abattoir K1.70 each	340.00
Beak Trimming	5.00	40 live sale K4 each	160.00
Feed	120.00	150 abattoir K1.80 each	270.00
Freight	10.00	49 live sale K3.50 each	171.50
Feed	60.00		
Freight	5.00		
Kerosene	2.00		
Feed	220.00		
Freight	10.00		
Feed	132.00		
Freight	10.00		
<b>Total</b>	<b>829.00</b>		<b>1,061.50</b>

**Table 5: An example pullet mortality record for a layer chicken project**

Batch No: 1 House No: 1  
 Number purchased: 200 Date at day old: 01/01/95  
 No. placed in brooder: 208 Condition on arrival: Good

Date	No. Dead	No. Cull	No. Remaining	Date	No. Dead	No. Cull	No. Remaining
Placement	-	-	208				
02.01.95	2	-	206	29.01.95	4	-	191
03.01.95	1	-	205	05.02.95	1	-	190
04.01.95	3	-	202	10.02.95	1	2	187
05.01.95	2	-	200	08.03.95	1	3	183
06.01.95	1	-	199				
09.01.95	1	-	198				
14.01.95	1	-	197				
17.01.95	1	-	196				
19.01.95	1	-	195	04.05.95	5		178
<b>Brooding</b>	<b>13</b>			<b>Rearing</b>	<b>17</b>	<b>5</b>	<b>178</b>
<b>period total</b>	<b>(6.3%)</b>			<b>period total</b>	<b>(8.2%)</b>		<b>178</b>

Table 6: An example feed record for a layer chicken project

Batch No: 1 House No: 1  
 No. of day old: 200 Date at day old: 01/01/95

Date	Feed Given		Feed Purchased		Feed Remaining	
	Bags	Kg	Bags	Kg	Bags	Kg
Store	-	-	-	-	-	-
26.12.94	-	-	S7	350	7	350
01.01.95	1	50	-	-	6	300
10.01.95	1	50	-	-	5	250
16.01.95	1	50	-	-	4	200
22.01.95	1	50	-	-	3	150
27.01.95	1	50	-	-	2	100
03.02.95	1	50	-	-	1	50
05.02.95	-	-	D32	1600	33	1650
08.02.95	1	50	-	-	32	1600
12.02.95	2	100	-	-	30	1500
10.05.95	-	-	L40	2000	?	?
03.08.95	-	-	L40	2000	?	?
	Starter	350		350		?
Total feed	Developer	1600		1600		?
	Layer	4000		4000		?
	Tonnage	5950		5950		?

Feed types: S -pullet starter; D -pullet developer; L -layer crumbles/pellets

Table 7: An example egg production cost benefit record for a layer chicken project

Batch No: 1 House No: 1  
 Number purchased: 200 Date at day old: 01/01/95

Expenses		Receipts	
Item	Kina	Item	Kina
Saw dust	?	Sale of eggs	?
Kerosene	?	Sale of eggs	?
Days old	?	Sale of eggs	?
Freight	?	Sale of eggs	?
Vaccination	?	Sale of eggs	?
Debeaking	?	Sale of eggs	?
Starter feed	?	Sale of culls	?
Freight on feed	?	Sale of culls	?
Egg fillers	?	Sale of culls	?
Medication	?	Sale of culls	?
Egg cartons	?	Sale of culls	?
Layer feed	?	Sale of culls	?
Freight	?		
Transport of eggs	?		
Total	?		?

**Table 8: An example egg production record for a layer chicken project**

Batch No: 1  
 No. of day old: 200  
 No. at point of lay: 180

House No: 1  
 Date at day old: 01/01/95  
 Date at point of lay: 03/06/95

Date	No. Eggs/Sizes				H.H% per day
	S	M	L	Tot.	
03.06.95	2	-	-	2	Wk 1 180 Hens
04.06.95	2	1	-	3	
05.06.95	3	1	-	4	
06.06.95	6	2	-	8	
07.06.95	6	3	1	10	
08.06.95	10	4	3	17	
09.06.95	16	5	2	23	
<b>Total/wk</b>	<b>45</b>	<b>16</b>	<b>6</b>	<b>67</b>	<b>5.3</b>
10.06.95	20	4	3	27	Wk 2 179 Hens
11.06.95	18	6	5	29	
12.06.95	21	10	4	35	
13.06.95	15	12	6	33	
14.06.95	14	18	3	35	
15.06.95	18	17	5	40	
16.06.95	20	10	15	45	
<b>Total/wk</b>	<b>126</b>	<b>77</b>	<b>41</b>	<b>244</b>	<b>19.4</b>
17.06.95	25	10	13	48	Wk 3 179 Hens
18.06.95	22	15	10	47	
19.06.95	18	16	15	49	
20.06.95	17	20	15	52	
21.06.95	15	22	14	51	
22.06.95	16	21	17	54	
23.06.95	13	28	17	58	
<b>Total/wk</b>	<b>126</b>	<b>132</b>	<b>101</b>	<b>359</b>	<b>287</b>
24.06.95	15	30	21	66	Wk 4 179 Hens
25.06.95	16	35	18	69	
26.06.95	10	41	19	70	
27.06.95	11	52	16	79	
28.06.95	9	55	17	81	
29.06.95	10	58	22	90	
30.06.95	13	62	25	100	
<b>Total/wk</b>	<b>84</b>	<b>333</b>	<b>138</b>	<b>555</b>	<b>44.0</b>

Egg sizes: S - small; M - medium; L - large      H.H - Hen housed egg production

$$\text{H.H\%} = \frac{\text{Number of eggs produced} \times 100}{\text{No. of hens housed} \times \text{No. of days}}$$

other important purchases. An example of a cash flow of a 200 layer project over a 5 year period is shown in *Table 1*.

**Note:** example budgets for both broiler and layer chicken projects are also shown in sections dealing with practical management systems of peri-urban broiler and small scale layer chicken projects.

## RECORDS

There are many good reasons why records should be kept. For instance, records provide accurate expenses such as feed, stock, medication and labour costs. When proper records are kept it is easy to work-out the financial standing or worthiness of the project and most of all, help in the future planning and budgeting.

Records must be planned according to the type and size of the project. Large projects dealing with more than one product will require more complicated records than a small single product project. The frequency of recording will depend on the type of data and information one requires in making decisions about the project. Some records such as those of mortality, egg production and feed consumption must be kept daily. Other records can be kept on a less frequent basis. In most instances, daily records should be summarised at the end of each week. Certain calculations are necessary at this time too. These include the amount of feed eaten to produce a dozen eggs, feed consumed per 100 birds and kilogram feed consumed per kilogram body weight gain. Some examples of recording sheets one should maintain for broiler and layer chicken projects are shown in *Tables 2, 3, 4, 5, 6, 7 and 8*.