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Correct citation:

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INTRODUCTION TO THE HANDBOOKS FOR SMALL-SCALE SEED PRODUCERS SERIES

This handbook is intended for use by small-scale farmers, business people and community-based institutions such as schools and churches interested in producing seed of various crops for sale. It is written for people who have no formal training or experience in seed production. You may seek assistance in understanding some of the topics covered in this handbook from NGOs or extension agents.

Another handbook in this series: “Producing bean seed” is specifically intended for bean seed producers. Manuals on technical aspects of producing seed of other crops may be available from other organizations.

This handbook on business skills for seed producers does not focus on any one crop. We use “seed” in the sense of including vegetatively reproduced crops, forages and trees.

A note on business language: Since some business language may not exist in African languages, when using this handbook or translating it into local languages, it may be necessary to develop new words in your language and or use the English, French or Portuguese words.
CHAPTER 1: WHY ESTABLISH A SEED BUSINESS?

For crops such as beans, groundnuts, potatoes and sweet potatoes, most farmers plant seed or planting material kept from the previous season. But farmers sometimes buy seed from other farmers, markets or shops or receive seed as gifts. Farmers look for seed from other sources because they:

- Have lost most or all of their seed as a result of drought, heavy rains, diseases, pests or poor storage
- Have eaten or sold all of their seed
- Want to cultivate more land but do not have enough seed to plant on the new land
- Want to try a new variety.

The purpose of a seed business is to produce good quality seed for sale and to make money from providing this service.

Seed can be a money making business
This type of business works well for some, but not all, crops. A crop may be suitable for seed production as a business if:

- Farmers are not satisfied with the availability or quality of their own seed or seed sold in markets and shops
- Farmers experience seed shortages at planting time
- Farmers are already used to purchasing seed
- The crop suffers from diseases found inside the seed or carried in the soil (for example, bacterial wilt in potatoes)
- Good quality seed can be produced by non-specialists.

This manual does not focus on a particular crop or crops. To make the information provided easier to understand, it gives examples for beans and potatoes.

Bean seed producers should read this handbook together with another handbook: “Producing bean seed”.

A seed business provides three important services to the community:

1. Good quality seed: Although farmers are usually happy with the quality of their own seed, they often find that the seed obtained from markets, shops or other farmers is not of good quality. In the case of beans and other grain legumes the seed may be shriveled, mouldy, discolored, damaged by insects or it may even include seed of other varieties. Potato seed may be infected with bacterial wilt.
2. Availability of seed: Farmers are often faced with a shortage of seed at the time of planting. Having seed produced in the community, rather than in a far off place, solves this problem.

3. Introducing new varieties. Researchers, and sometimes farmers, develop improved varieties of different crops but face difficulties in getting them out to large numbers of farmers. A seed business can work with researchers or farmer experimenters to multiply and sell improved varieties.

By starting a seed business you will benefit yourself and other farmers in the community because better quality seed produces higher yields, which means more to eat and sell. Much care will be needed to produce good quality seed, so it is important to get proper advice on seed production from researchers and extension agents. Training manuals may be available for some crops.
CHAPTER 2: MAKING THE DECISION TO ESTABLISH A SEED BUSINESS

Before starting a business, you will have to find out if you are capable of running a business, producing seed of good quality in the required amounts and at a reasonable price. You will need to collect a lot of information and ask yourself many questions before making the decision to start a seed business.

Think carefully before deciding to start a seed business

You should go through seven steps in making the decision to start a seed business as shown in this diagram.

4
Steps in establishing a seed business

1. Find out if a seed business is needed in your area
2. Find out if you can produce good quality seed
3. Find out if you can successfully run a seed business
4. Find out what you need to invest
5. Analyze and reflect on information collected and make conclusions about estimated profitability and chances for business success
6. Plant a seed plot for at least 1 session
7. Sell seed on a trial basis

- Not able to sell seed profitably
- Able to sell seed profitably

Make decision to start a seed business

Change crop

Change variety
Is a seed business needed in this area?
- Find out if there is demand for seed
- Find out which crops and varieties are in most demand
- Estimate expected market size/share
- Find out if there are any competitors

Market research is an organized way for business people to get accurate information to help them plan and organize their business. For seed producers, market research can answer the following questions:

- For which crops and varieties do farmers want seed?
- What price are farmers willing to pay for seed?
- How much seed should a business produce each season?
- What amount of seed are individual farmers likely to buy?
- From where would farmers prefer to buy seed?
- Which other customers besides farmers may be interested in buying seed?
- What are the laws on seed production for specific crops?

Market research should be done before you start a seed business and every 3-4 years after that to make sure you are aware of changes in the market.

Two approaches are described in this manual for conducting market research: informal surveys and research by observation. An informal survey is a way to get information from a small group of people
to represent the views of a larger group. Research by observation means observing a situation and making conclusions based on what you saw.

**Informal survey**

When doing market research on seed you should get information from different kinds of people or organizations: farmers, farmers’ associations and organizations, people who sell seed (traders, shopkeepers, input supply shops), schools that have a farm, and development organizations such as NGOs and projects.

Do market research with different potential customers

Collect different types of information from each source, using different methods as outlined in the following table.
# Market research information

<table>
<thead>
<tr>
<th>Who to talk to</th>
<th>Types of information to collect</th>
<th>Method</th>
</tr>
</thead>
</table>
| Farmers, farmer groups             | • Seed demand  
• Varietal preferences  
• Varieties being grown  
• Interest in new varieties  
• Issues of concern regarding seed quality  
• Price willing to pay          | Informal survey                  |
| Seed sellers (traders, shopkeepers, input suppliers) | • Price of seed sold  
• Varieties sold  
• Class of seed sold  
• Quantities sold  
• Profit markup  
• Problems selling seed  
• Price willing to pay  
• Interest in placing bulk order  
• Location             | Informal survey and observation                   |
| Seed producers                     | • Crops  
• Varieties and type of seed produced  
• Price of seed  
• Quantities produced  
• Cost of production  
• Profit markup  
• Where seed is sold  
• Problems selling seed | Informal survey and observation                   |
| Schools, NGOs, projects            | • Interest in buying seed  
• Price willing to pay  
• Varietal preferences  
• Interest in placing bulk orders | Informal survey                  |
| Extension agents, researchers      | • Seed laws and policies | Informal survey                  |
Decide how many people and organizations you will talk to. If your target market is large, you will need to conduct your survey in several villages. Make sure you talk to people you do not know so as to get many different views. The following numbers should help to guide you:

- **Farmers**: 20 per village. Select households that belong to different wealth groups (5 rich, 8 of average wealth and 7 poor is a suggestion)
- **Seed sellers**: 5-8
- **Seed producers**: depends on how many exist
- **Schools**: 3-5
- **Development organizations**: depends on how many exist

First, make a list of questions you will ask. Visit each of the people and organizations you have selected to ask them the questions on your list. It is important when talking to farmers, to talk with the person in the household who is responsible for managing seed. Usually, this is a woman. Write down the answers people give so that you can look at the answers later and make decisions.

**Research by observation**

You can get additional information to help you understand demand for seed by observing what is happening in your community. Visit several markets and shops at different times of the year to see who sells seed, what kind of seed is being sold, the quality of the seed, to observe when people buy seed and what kinds of questions they ask seed sellers.
You need to organize the information you have collected properly. Use the tables on pages 80-81 to help you organize information on demand for seed, seed prices, varietal characteristics of importance to farmers and traders, and demand for seed of different varieties.

**Selecting crops and varieties for your business**

You will have to decide which crops and varieties to produce and how many different crops to handle. Make the final decision after you have completed market research.

A seed business is suitable for some, but not all, crops

Producing seed of more than one crop has several advantages:

- When demand goes down for seed of one crop, you can produce seed of another crop
- You can still make money from seed when practicing crop rotation
- You have more than one product, which is likely to increase your profits and reduce risks from seasonal weather problems.
The most important disadvantages of working with more than one crop are that you will have to work harder and will need more equipment and expertise.

To ensure the success of your business, it is best to limit the number of crops you work with to 1 or 2 at a time. If you decide to produce seed of 2 crops, make sure to select crops that can be planted in rotation to save land. For example, beans and potatoes make a good combination. You may decide to plant both crops each season or only one crop per season.

The varieties you select to multiply will greatly determine the success of your business.
Only multiply varieties that will sell easily. Varieties of all crops can be divided into three groups:

1. Commonly grown **local varieties**: varieties that have been grown for many years by many farmers.

2. Rarely grown local varieties: varieties which farmers appreciate for certain characteristics but which nowadays only a few farmers grow. Such varieties are often scarce because of seed shortage.

3. Improved varieties: varieties developed by researchers or farmers that have higher yields and often are more resistant to pests and diseases. Many improved varieties look exactly like local varieties.

When deciding which of the three types of varieties to multiply, consider the advantages and disadvantages of each type listed below.
### Types of varieties for seed production

<table>
<thead>
<tr>
<th>Types</th>
<th>Advantages</th>
<th>Disadvantages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common local varieties</td>
<td>• Farmers already know them</td>
<td>• Farmers may not want to buy them since they are available in shops, markets and from other farmers</td>
</tr>
<tr>
<td></td>
<td>• They have characteristics that farmers appreciate</td>
<td>• Low multiplication rate</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Low yields and/or are not resistant to important diseases and pests</td>
</tr>
<tr>
<td>Rarely grown local</td>
<td>• Farmers may be willing to buy them for a high price because they are scarce</td>
<td></td>
</tr>
<tr>
<td>varieties</td>
<td>• They have characteristics that farmers appreciate</td>
<td>• Low multiplication rate</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Low yields and/or are not resistant to important diseases and pests</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Demand may be low</td>
</tr>
<tr>
<td>Improved varieties</td>
<td>• High yielding and tolerant of important diseases and pests</td>
<td>• Farmers may not be used to new seed types</td>
</tr>
<tr>
<td></td>
<td>• Farmers may be prepared to pay a high price</td>
<td>• May have some undesirable characteristics</td>
</tr>
</tbody>
</table>

The next step is to select which products or varieties to produce. You may not be able to complete this step if you plan to work with new varieties that you do not yet have access to. Before you make a final decision, it is important to have information recorded on the prices paid for different varieties. A table for organizing information on seed prices is presented on page 80.
Deciding on the scale of your business

In doing market research, it is important to consider which market your business will target. Will you supply seed mainly to farmers in your own village and nearby villages, to farmers in a wider area (many villages), the whole district or a wider region?

A seed business can have different target markets

Your target market will obviously depend on how big you expect your business to be and the resources (land, labour, money, time) you have.
Can I produce good quality seed?

- Decide which class of seed to produce
- Think about which equipment and materials you need for a seed business

Deciding which class of seed to produce

Seed is classified into classes to show differences in quality. For crops such as beans, quality is measured by the germination rate, purity, and whether the seed is sufficiently free of diseases. The quality of potato seed is measured by size (no more than 35 mm) and the number of green sprouts (4 or more). Usually governments recognize three classes of seed that can be sold to farmers:

1. **Certified seed**: seed produced by specialized producers such as researchers and seed projects that is available for sale. Fields of certified seed must be inspected by seed officials to make sure that they meet requirements set by the government.

2. **Improved seed** (also called standard or commercial seed): seed of a lower class than certified seed than can be produced under farmers’ conditions using careful procedures.

3. **Farmers’ seed**: seed produced by farmers in their traditional way without following special or careful procedures.

The type of seed business described in this handbook is primarily meant to produce improved seed. You will need to seek information from an extension agent if you would like to produce certified seed.
Equipment and materials needed for a seed business

To produce good quality seed may require equipment and inputs that farmers may not normally use.

Seed production requires special equipment

See page 82 for a list of equipment required for bean and potato seed production. You may start your business with a few pieces of basic equipment and obtain others later as your business expands.

Am I the right type of person to run a seed business successfully?

- Can you successfully manage a seed business?
- Do you have the right skills for a seed business?
- Should you work as an individual or a group?

Some people are better at operating a business than others. It is also important to recognize that some businesses are more difficult to operate than others and may require more developed business skills. A seed business is a complex type of business, which requires strong business skills because:
The market is not steady (it changes all the time)
There may be competition from farmers’ own seed
It is difficult to know or predict customers’ buying behavior
The weather may be unfavourable.

You need skills in the following 8 areas to operate a seed business successfully. The first three are personal skills that come from your past experiences and are part of your own character. These three skills will not be taught in this handbook.

1. **Experience in farming:** If you do not have good experience and knowledge of farming, you will be unable to produce a good crop or make decisions about how to grow the seed crop.

2. **Desire to succeed:** When a business begins, there is much excitement. The desire to succeed is strong and you have much support. The new varieties and the new ways of producing seed make you feel good. Later on there may be problems: drought, too much rain, customers do not buy much seed, someone falls ill in the family and needs money for hospital. You begin to wonder if starting a business was the right decision. If you have a strong desire to succeed, you will know that problems always come up, but they can be overcome. Your belief in your own ability will allow you to succeed.

3. **Ability to take risks:** Starting a business is always risky, but not all people are good at taking risks. For some people risk taking, even in small things, is
difficult. Such people prefer to rely on what they know well rather than try something new. Other people are willing to take small risks, but only after thinking carefully about it, and if they can afford it. Risk taking can be lessened by knowing your business well, knowing the market you are supplying, and the competition to your business. However, certain risks such as the weather, government policies, changes in demand, diseases, pests and theft are beyond anyone’s control.

The following skills can be taught and learned. These will be mentioned briefly now, but will be addressed in detail later on in this manual.

4. **Market research:** You will need to find out information about what crops, varieties and type of seed farmers want and what price they are willing to pay.

5. **Financial knowledge:** You will need to know at all times, even before you begin, how to tell if your seed business is profitable. You will also need to know how to work out what you need to spend (expenses) and what you expect to earn (income).

6. **Business sense:** You will need to understand all aspects of your seed business and how to manage it.

7. **Salesmanship:** You should be able to convince customers why they should buy your seed rather than seed from other sources.

8. **Service:** You will need to know how to treat customers.
Working as an individual or a group

A seed business can be operated by an individual or a group. Some advantages and disadvantages of working in these ways are listed below.

Operating a seed business as an individual

Advantages:

✓ The sole owner can make all decisions without asking permission from someone else.
✓ The income that is earned goes to the owner.
✓ You can try new ideas, new methods, and new marketing techniques without asking anyone.
✓ There are no problems of mistrust or misunderstanding if you own a business alone.

Consider whether you can operate a seed business on your own
Disadvantages:

✓ The total financial burden rests on the owner.
✓ You can obtain outside assistance in making decisions, as an individual, but this can be costly and time consuming.
✓ Some people may feel isolated as a sole owner rather than as part of a group.
✓ All the risks, equipment, and inputs are the responsibility of one person.

Operating a seed business as a group

Advantages:

✓ The costs of transport, marketing, distributing fertilizer and seed can be shared.
✓ Buying inputs like fertilizer, insecticide, and chemicals for treating seed in large quantity lowers the cost.
✓ Groups often have improved access to credit at a lower cost.
✓ More people working together can lead to higher levels of production and a higher level of income may be achieved. Increased production may create savings, which can be used to expand production or meet other needs.
✓ People learn how to work together, analyze problems together, and make future plans together.
✓ Women may have better access to land and other resources when organized in groups.
Consider whether you should operate a seed business as a group

Disadvantages:

- There may be conflict among group members for many reasons.
- Sometimes groups depend too much on outside financing as opposed to self-financing.
- If group leadership is weak, the group is likely to fail to meet desired goals and membership will decline.
- Poor record keeping may cause confusion within the group on expenditures, marketing, and sales.
- If a few members make all the decisions, other members may become dissatisfied because they have no chance to offer opinions.
If you decide to work as a group, there are several ways to organize yourself:

1. Group members do all seed production activities together and share profits.
2. Group members grow seed on an individual basis but come together to do some activities such as storage or marketing.
3. Group members only get together to buy materials and inputs in order to reduce cost.

It may be better to work in a group that already has success and experience in working together.

Think carefully about the advantages and disadvantages of each way of organizing yourself before making a decision.

What do I need to invest to make a seed business successful?

- Estimate how much it will cost to start a seed business
- Estimate income and expenditure for one year
- Estimate how much profit you can expect to make

Before you start a business, you should develop a business plan to see whether you can afford to start the business and if you will make money. This means calculating the following:
Business costs

There are two types of business costs: fixed costs and working costs. Fixed and working costs combined are called the costs of production. Fixed costs are one-time costs that occur when starting up a business. Fixed costs for a seed business include tools, storage constructions and equipment that lasts for more than one production cycle but not for many years. Buying or renting land may also be part of your fixed costs.
When calculating the cost of equipment and materials, in addition to the initial cost of each item, estimate how long each item can be expected to last (life span). Life span is expressed in number of seasons or years. For example, the life span of a hoe is 2 years.

The fixed costs for the Kabale Bean Seed Producers are shown in the table below.

<table>
<thead>
<tr>
<th>Fixed Cost Item</th>
<th>Quantity</th>
<th>Initial cost (Shs)</th>
<th>Life Span (Seasons)</th>
<th>Fixed Cost Item</th>
<th>Quantity</th>
<th>Initial cost (Shs)</th>
<th>Life Span (Seasons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thresher</td>
<td>1</td>
<td>9,000</td>
<td>3</td>
<td>Sorter</td>
<td>1</td>
<td>6,500</td>
<td>8</td>
</tr>
<tr>
<td>Sorter</td>
<td>1</td>
<td>6,500</td>
<td>8</td>
<td>Black polythene sheet for drying</td>
<td>1</td>
<td>750</td>
<td>6</td>
</tr>
<tr>
<td>Hoes</td>
<td>12</td>
<td>350</td>
<td>6</td>
<td>Hoes</td>
<td>1</td>
<td>950</td>
<td>6</td>
</tr>
<tr>
<td>Winnowing baskets</td>
<td>4</td>
<td>50</td>
<td>2</td>
<td>Winnowing baskets</td>
<td>12</td>
<td>350</td>
<td>2</td>
</tr>
<tr>
<td>Land</td>
<td>0.53 acres</td>
<td>4,000</td>
<td>0.6 acres</td>
<td>Land</td>
<td>0.53 acres</td>
<td>3,000</td>
<td>0.6 acres</td>
</tr>
<tr>
<td><strong>Total materials</strong></td>
<td></td>
<td><strong>26,650</strong></td>
<td></td>
<td><strong>Total materials</strong></td>
<td></td>
<td><strong>19,650</strong></td>
<td></td>
</tr>
</tbody>
</table>

Working costs are costs that occur each season at all stages of seed production, from cultivation to selling the seed. Working costs include inputs: materials, equipment, seed, fertilizer, labour, transport, and packaging material. The cost of renting land may be part of working costs if you rent land regularly. It is important to note that working costs increase as the area of land to be planted increases because you will need more of each item. Examine the working costs for the Kabale Bean Seed Producers and Mr Tusiime, a potato seed producer.
When you first start a business, you must have money to pay for both fixed and working costs before you begin. It is important to remember that there will be no income from your business until the first crop has
been harvested. Therefore, before starting a business, you must plan where the money to start off will come from. Money may come from your own savings or may be borrowed. But if you borrow money, think about whether you can repay the loan and still have enough income to cover your business costs.

Since costs are related to the area to be planted in seed, an important decision before you begin the business is how much seed and land you want to plant. You should reach this decision by considering available resources (land, labour, time), how much money you have to invest in your business and the estimated level of demand for seed. It is always better to start small and expand over time.

To be successful, seed producers should try to keep their costs of production low and increase their yields. This can be done by:

- Planting high yielding varieties
- Planting varieties that are tolerant to the diseases and pests in your area
- Planting good quality seed
- Choosing soils which are fertile or by using fertilizer, compost or green manures to improve soil fertility
- Managing your seed fields well by planting on time, keeping the fields clear of weeds, managing diseases and pests well, harvesting on time and storing the seed properly.

Poor weather conditions also affect yields and crop performance but there is little you can do about this problem.
Calculating the selling price

Once you know all costs needed for operating your business, calculate the price at which you should sell seed in order to make a profit.

The selling price is the cost of producing a certain amount of seed (for example, a bag or a kilo) (**cost of production**), plus the producer’s profit (**profit markup**), plus an amount to cover the cost for equipment used (**depreciation**).

**Selling price = costs of production + profit markup + depreciation**

Here is an example of how Mrs. Mafabi, a bean seed producer, calculated her selling price.

**Step 1: Calculate the cost of production**

Mrs. Mafabi plans to plant 300 kilos of bean seed at a total cost of Shs. 288,000. After harvesting and sorting, she expects to be left with 4000 kilos of bean seed.

She divides her total costs (Shs 288,000) by the amount of seed produced (4000 kilos):
Shs. 288,000/4000 = 72.

This means it costs Shs. 72 to produce 1 kilo of bean seed.

Mrs. Mafabi must therefore sell each kilo of seed at Shs. 72 to cover the cost of producing it. If she sold a kilo of bean seed for Shs. 72, she would not make a profit. She must therefore add a profit markup to the cost of production so that she can make profit from her sales.
Step 2: Calculate profit markup

As a general guideline, the profit markup for seed can be 20-50% of the production cost per unit (kilo, bag). Profit markup will differ by variety, depending to some extent on farmers’ appreciation of specific varieties. Since farmers are willing to pay more for varieties they like, you can charge a higher profit markup for those varieties. On the other hand, you should charge less for varieties that look different from what farmers are used to, for varieties that are less appreciated and which have a small market.

Mrs Mafabi thinks a profit markup of 25% is fair. She calculates 25% of Shs. 72.

Multiply 72 x .25 = Shs. 18

Add the profit markup of Shs. 18 to Shs. 72 (cost to produce per kilo).

Shs. 18 + Shs. 72 = Shs. 90.

In deciding on a profit markup, you will need to ask yourself the following questions:

✔ Will most customers be willing to pay this price?
✔ Is this price competitive with the price of other seed of the same quality?
✔ Will this price allow a trader or shop owner to add his or her own profit markup and still be able to sell? The trader or shop owner will increase the price he/she paid you by two or more than, so concern yourself more with your own price.
If the answer to any of these questions is no, consider lowering your profit markup.

**Step 3: Calculate depreciation**

Tools, equipment and buildings get old, broken and need to be replaced. Since equipment is worth less after each year of use, this cost must be included in the selling price by subtracting a small amount of money each year from the original price of the equipment. Since seed producers use many different tools and equipment, it is difficult to decide how much money to add to the selling price to cover the cost of each tool or equipment. The easiest method is to estimate the depreciation of the most expensive pieces of equipment (no more than 2).

Mrs Mafabi bought a threshing rack for Shs. 9,000. The threshing rack has a life span of 3 seasons before it wears out. To get the depreciation cost, divide the cost of the equipment by its expected life span.

Mrs Mafabi divided Shs. 9,000 by 3. 9,000/3=Shs. 3000. Shs. 3000 is the cost of using the threshing rack for one year.

Mrs Mafabi divides the total amount of seed she expects to sell (4000 kg) by the value of depreciation to the threshing rack. 4000/3000=1.33. The 1.33 can be disregarded. If this were 50, then add another shilling to the price.
Mrs Mafabi adds Shs 1 to the price of each kilo of seed. Shs. 90 (cost of production + profit markup) + Shs. 1 (depreciation) = Shs. 91. Adding an amount for depreciation allows her to make enough money to replace her old threshing rack after 3 seasons.

The selling price of each kilo of bean seed in this example is Shs. 91.

By including the cost of production, profit markup and depreciation when setting the selling price, you will make a profit from your seed business. If the seed is sold for less than it costs to produce, the business will fail. If the production costs are too high, the seed may be too expensive for the buyers.

The following table shows depreciation of fixed cost items used by the Kabale Bean Seed Producers in one season. Depreciation for each item is calculated from the table on page 24.
Estimated annual income from sales

Once you have calculated the selling price of seed, you are ready to calculate your estimated annual income from sales. Follow three steps to calculate the amount of income from sales for each planting season per year.

**Step 1:** Estimate the sales price and the amount of seed you expect to sell each season. This calculation must be done separately for each variety.

Mrs Mafabi expects to sell 4000 kgs of bean seed produced in the first season for Shs 91 per kilo. She expects to sell 3500 kgs produced in the second season for Shs. 98.

<table>
<thead>
<tr>
<th></th>
<th>First season</th>
<th>Second season</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sale price for one kilo</td>
<td>Shs. 91</td>
<td>Shs. 98</td>
</tr>
<tr>
<td>Amount to be sold (kilos)</td>
<td>4,000</td>
<td>3,500</td>
</tr>
</tbody>
</table>

**Step 2:** Calculate the total income from the first season

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>First season</td>
<td>91 x 4000</td>
</tr>
<tr>
<td>Second season</td>
<td>98 x 3500</td>
</tr>
</tbody>
</table>
Step 3: To get annual income, add total income from both seasons.

<table>
<thead>
<tr>
<th>First season</th>
<th>Shs. 364,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Second season</td>
<td>Shs. 343,000</td>
</tr>
<tr>
<td>Annual income</td>
<td>Shs. 707,000</td>
</tr>
</tbody>
</table>

Mrs. Mafabi expects to get an annual income of Shs. 707,000 in her first year of seed production.

Calculating the profitability of your business

The purpose of your seed business is to make money (profit). This means that income from seed sales must be higher than the cost of producing seed. It is important to find out whether you can make a profit from selling seed before you start the business. Many businesses fail because they find out they cannot make a profit.

Follow four steps to find out if your business will be profitable.

Step 1: Calculate your estimated fixed costs and working costs. These two are also called the cost of sales.
Mrs Mafabi recorded the following fixed costs and working costs over two seasons:

<table>
<thead>
<tr>
<th></th>
<th>First season</th>
<th>Second season</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed costs</td>
<td>194,000</td>
<td>150,000</td>
</tr>
<tr>
<td>Working costs</td>
<td>94,000</td>
<td>60,000</td>
</tr>
<tr>
<td>Cost of sales</td>
<td>288,000</td>
<td>210,000</td>
</tr>
</tbody>
</table>

The total cost of running her business for one year is: Shs. 498,000 (Shs. 288,000 + 210,000)

**Step 2:** Calculate annual income from sales.

<table>
<thead>
<tr>
<th></th>
<th>Shs 364,000</th>
<th>Shs 343,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>First season</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Second season</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Annual income</td>
<td></td>
<td>Shs 707,000</td>
</tr>
</tbody>
</table>

Mrs Mafabi expects to get an annual income of Shs. 707,000 in her first year of seed production.

**Step 3:** Calculate profit.

Profit is the income from sales minus the cost of sales.

Mrs Mafabi calculates her profit by subtracting her annual income of Shs. 707,000 from her annual cost of sale of Shs. 498,000 (cost of sale from the two seasons: Shs. 288,000 + Shs. 210,000 = Shs. 498,000).

Mrs Mafabi’s annual profit is Shs. 209,000.
**Step 4:** Making conclusions about profitability.

Decide whether the amount of estimated profit is worthy of the amount of work you will have to put into your business.

**Should I start a seed business?**

- Analyze and reflect on the information you have collected
- Grow seed for at least one season and sell it
- Calculate profit and reflect on your experience
- Decide whether to start a seed business with the crop and variety you tested, change the variety or crop or give up the idea of a seed business

Once you have completed the steps discussed so far and reflected on the information collected, you are ready to grow seed on a trial basis. This stage is important because it allows you to have the actual experience of growing and selling seed without taking a big risk. Grow seed for at least one season, sell it and calculate the profitability of your business. If you are able to sell seed profitably, make the decision to start a seed business. If you are not able to sell seed profitably, try another variety of the crop you tested or change crops. In either case, you will have to repeat some of the steps in making the decision to start a business (see the steps on page 5). After the trial, you may also decide that a seed business is not the right business for you and give up the idea.
Planning means thinking and working out what to do about something before it happens.

There are two stages in planning a business. It is important to think about and work out what to do before you start a business. Once your business is established, you will have to plan every season or year so as to improve your business in the future.

There are three important reasons why planning is important for your seed business:

1. A plan shows you which part of your business you need to improve.

2. A plan shows you the amount of money you can expect to see coming into and going out of your business.
3. A plan shows a lending institution, such as a bank, how well your business can expect to do in the future.

This chapter shows you how to prepare three types of plans: a business plan, a sales and costs plan and a cash flow plan.

**Preparing a business plan**

Preparing a business plan will help you to clarify and focus your ideas. It will also make you feel more confident about succeeding. If prepared properly, a business plan shows a lending institution how much money you need and how you will repay a loan. A business plan should have the following information:

1. Introduction: describe which crops and what type of seed your business will produce, why the business is a good idea and who your customers are.

2. Information about yourself: include your name, the name of the business, your qualifications and experience.

3. Describe the product: give details of the varieties you will multiply, quality control measures, packaging etc. Explain what is special about your seed.

4. Describe the market: who are the customers? Where are they? How big is the market? Is
demand growing or falling? Who are your competitors and what will they do if you start producing?

5. Describe your selling plan: How will you distribute and sell your product? How will you promote your product and why will your methods be successful?

6. Equipment needed: where will the business be located? How will you obtain land? What equipment do you need, why and what are the costs?

7. Describe the finances needed: What finances will you need to start the business and operate it for one year? How much of your own resources will be put into the business? If you are seeking a loan, how much money is needed and what is it needed for? What security will you be able to offer on the loan?

8. What are your plans for the future? What are your objectives in running the business? How will you achieve them? What do you expect to happen over the next three to five years?

An example of a business plan is on page 83.
Preparing a sales and costs plan

A sales and costs plan allows you to make a forecast of your sales and costs for each month of the next year. This allows you to know how much profit you can expect to make next season or year. For a seed business, it is advisable to make a sales and costs plan for either a season or year in advance depending on whether there are two or one growing seasons per year. Make your sales and costs plan before you need to use it.
Step 1: Estimate fixed and working costs. You can get this information from your business records. Is there anything that you can improve on? Did you use the cheapest materials possible (however don’t forget the quality of the materials when making this assessment)? Did you waste materials? Next, get information about next year. Think of anything that may affect your costs.

Step 2: Make a forecast of sales and profit for each month. To make a forecast, get information about what happened last year. You can get this information from your business records. Think carefully about what happened in the past. Is there anything that you can improve on? Next, get information about next year. Think of anything that may affect your sales and profits. This forecast can also be divided into planting seasons. Ask yourself the following questions:

Products (crops or varieties)
Which products sold well? Why?
Which products sold badly? Why?
What products do your customers want?
Can you sell new products?

Price
Were your customers willing to pay the prices you set?
Were the prices high enough to give your business profit?
Do you need to increase or decrease your prices?
**Sales**
Did you sell seed directly to customers or did you sell to retailers? Which way of selling brought more profit? How did you promote your product? What type of promotion gave the highest sales and best profit for your business? What is the best kind of distribution system for your business? What can you do to promote your product?

**Step 3:** Use your sales and costs plan to improve your business. At the end of each month, compare the amount in your sales and costs plan with the actual amounts you record in your record book. Use your plan to check if your business is doing as well as you expected.

- Are your sales for the month as high as the sales you forecast? If not, find out why the sales are lower than you expected.
- Are your costs for the month higher than the costs you forecast? If so, find out why the costs are higher.
- Is the profit for the month lower than the profit you forecast? Look for the reason why your profit is not as high as you expected.

**Preparing a cash flow plan**

A cash flow plan predicts how much cash you expect to come into your business and how much cash you expect to go out of your business each month. This type of plan helps you to make sure that your business
does not run out of cash at any time. It gives you a warning in advance about future cash shortages so you can solve problems before they happen. Comparing this with the actual cash flow you experience gives you an excellent way to determine how accurate your forecasting is compared to what the business really does. You can make a cash flow plan for a season or a longer period.

Here is a cash flow plan for Mr Tusiime’s potato seed business.

| Step 1. Enter the amount of cash you expect to have in the cash box and bank account (if you have one) at the beginning of March. Write this amount in the space next to cash at the start of the month. |  |  |  |
|---|---|---|
|  |  |  |  |
|  |  |  |  |
**Step 2.** Look at your sales and costs plan. Find the forecast you made for cash sales for the month of March. Write this amount in the space next to “cash in from sales”.

**Step 3.** You may get cash from other sources besides sale - such as a bank loan, interest from your bank account or a donation. Write this amount in the space next to “any other cash in”.

**Step 4.** Add up all the cash in amounts from steps 1, 2 and 3 to get the total cash in. Write in this amount in the space next to “total cash in”.

**Step 5.** In the month of March you may buy materials for your business. Look at your sales and costs plans under the month March. Write the amount you estimated for materials in the space next to “cash out for materials”.

**Step 6.** Look at your sales and costs plans under the month of March to see how much you estimated spending on working costs. Write the amount you estimated in the space next to “cash out for working costs”.

**Step 7.** Will you buy any equipment in March? Find out the costs and write this amount in the space next to “cash out for planned investment in equipment”.

**Step 8.** Is there any other amount of cash you forecast your business will pay out in the month, such as loan repayment? Write in this amount in the space next to “any other cash out”. If there are no costs in this category leave this space empty.
**Step 9.** Add up all the “cash out” amounts from Steps 5, 6, 7, 8. This is the total cash amount you expect to go out of your business during March.

**Step 10.** Subtract the total cash out from the total cash in to get the amount left in the cash box and bank account at the end of March. Remember that cash at the end of the month is the same as cash at the start of the next month.

Mr Tusiime’s cash flow plan shows that at the end of the three month period he expects to have Shs. 9,360.

Use your cash flow plan to make sure that your business has enough cash all the time. If your cash flow plan shows that your business is likely to run out of cash during one month, think about the following questions:

- Can you increase cash in from sales during that month? Consider whether you are giving too much credit.
- Can you reduce material costs for the month?
- Is it necessary to buy new equipment at this time? Can you buy equipment on credit or get a loan?

**Calculating net worth**

**Net worth** is a calculation of what your business is worth at a certain point in time which tells you how well your business is doing. It is important to calculate net worth every six months. Follow these steps to calculate net worth.
Calculate net month every six months

**Step 1.** Calculate the value of all items related to your business that have money value. These are called assets. Assets in a seed business include seed not yet sold, equipment, tools and any cash you have from seed sales.

**Step 2.** Calculate all fixed and working costs.

**Step 3.** Subtract the business costs from the value of your assets. This figure is the net worth of your business.
Mrs Mafabi calculates the net worth for her seed business in March. It’s net worth in March is Shs. 5,300. Six months later, she calculates the net worth of her business again.

<table>
<thead>
<tr>
<th>A. Assets</th>
<th>Value / Cost of items</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment</td>
<td>7,500</td>
</tr>
<tr>
<td>Seed</td>
<td>3,000</td>
</tr>
<tr>
<td>Packaging material</td>
<td>1,000</td>
</tr>
<tr>
<td>Cash on hand from selling seed</td>
<td>3,500</td>
</tr>
<tr>
<td><strong>Sub Total</strong></td>
<td><strong>15,000</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B. Costs</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fixed Costs:</strong></td>
<td></td>
</tr>
<tr>
<td>Loans for seed, materials or equipment</td>
<td>2,500</td>
</tr>
<tr>
<td>Replacement costs (depreciation)</td>
<td>700</td>
</tr>
<tr>
<td>Equipment</td>
<td>3,500</td>
</tr>
<tr>
<td><strong>Variable Costs:</strong></td>
<td></td>
</tr>
<tr>
<td>Transport</td>
<td>1,000</td>
</tr>
<tr>
<td>Equipment rental</td>
<td>2,000</td>
</tr>
<tr>
<td><strong>Sub-total</strong></td>
<td><strong>9,700</strong></td>
</tr>
</tbody>
</table>

Shs. 15,000 - Shs. 9,700 = Shs. 5,300

Net worth for March Shs. 5,300
In September, the net worth of Mrs Mafabi’s business is Shs. 8,300. The net value of her seed business has improved in six months. Although her costs have increased, she is making enough profit to cover the expansion of her business.

This could be due to several factors such as higher yields, higher prices, or both. This could also result from a lowering of production costs.
CHAPTER 4: RECORD KEEPING TO IMPROVE YOUR BUSINESS

Keeping records is important because you need accurate information about your business to make good business decisions.

Business success depends on good record keeping

Good record keeping will help you know:

✓ How your money is being spent
✓ When most sales are made
✓ How your business is growing
✓ When to make purchases

Two kinds of records are important:

1. Seasonal records: records of all sales, purchases, labour hired, land rented, transport and other costs made during a season.
2. Income projection: these are records indicating how much money you think you will make and spend over a certain period of time, for example a month or season. These records are estimates whose accuracy improves with experience and practice. Income projections help you predict the future of your business and decide on how to adjust expenditure and prices. Examples of income projection records are sales and cost plans and cash flow plans.

**Seasonal records**

Seasonal records of all costs and sales should be kept in a **ledger**. A ledger is a special kind of exercise book for keeping business records. If you cannot buy a ledger, you can make one yourself using a ruler and a pen or pencil to make separate columns for all the information you will be recording. Keep all records for one season in the same ledger, but use a separate page for each. These are suggestions, but use whatever method is good for you as long as it contains all the proper information.

Divide your ledger into 2 or 3 sections:

Section 1: record items that make up your fixed and working costs. These records can be organized under the following headings, as indicated below: purchase ledger, labor ledger, land ledger, transport ledger and a ledger for all other costs.
Section 2: record the amount of seed of each crop and variety you have in stock and their unit price e.g. per kilo or bag. This kind of record is called inventory control.

Section 3: Record business loans, if you have any.

Section 1: Records under section 1 of your ledger can be organized into sub-sections A- E, as follows:

A. Purchase ledger

A purchase ledger shows a list of all the items you have bought for your business, when you bought them, how much you bought and how much you paid for them. Keep receipts for all purchases made. This record gives you an idea of how much you may need to spend in the future and can help to predict business profitability.

<table>
<thead>
<tr>
<th>Items purchased</th>
<th>Date of purchase</th>
<th>Quantity purchased</th>
<th>Unit price</th>
<th>Total price</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
B. Labour ledger

A labour ledger shows a list of all hired labour, the number of days each person worked and how much he or she was paid. This record allows you to plan future labour costs, provides you with figures for your monthly projections, and helps you to decide on the amount of labour you may need.

<table>
<thead>
<tr>
<th>Name of Labourer</th>
<th>Days Worked</th>
<th>Unit price per hour or day</th>
<th>Total payment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

C. Land ledger

A land ledger is used to record the amount of land rented and the cost. This record allows you to plan future land costs and provides you with figures for your monthly projections.

<table>
<thead>
<tr>
<th>Name of landlord</th>
<th>Amount of land rented</th>
<th>Cost per acre</th>
<th>Total cost</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
D. Transport ledger

A transport ledger is used to record the cost of transporting seed to the market. This record helps you to predict at what time and how much money is needed for future transport costs.

**Transport ledger**

<table>
<thead>
<tr>
<th>Type of transport</th>
<th>Date</th>
<th>Quantity of seed transported in kgs or bags</th>
<th>Cost per bag or kg</th>
<th>Total cost</th>
<th>Destination</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

E. Ledger for other costs

This ledger could be used for equipment rental, land payments or serve as a record for loan repayments. Another use might be for being able to tell rapidly how much you spent on materials and labour for building a seed store.

**Ledger for other costs**

<table>
<thead>
<tr>
<th>Quantity purchased</th>
<th>Type</th>
<th>Unit cost</th>
<th>Total cost</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Section 2: Record under section 2 of your ledger records related to inventory control and sales.

A. Inventory Control

Inventory control (also called stock control) records keep track of the quantity of seed that is available for sale. This record tells you accurately at all times how much seed of different varieties you have for sale. This information is important for making you aware of how much money you can make or lose depending on whether the seed is sold or not.

**Inventory control**

<table>
<thead>
<tr>
<th>Date</th>
<th>Quantity on hand</th>
<th>Unit price</th>
<th>Total price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variety</td>
<td>Variety</td>
<td>Variety</td>
<td>Variety</td>
</tr>
</tbody>
</table>

B. Sales ledger

Record all sales made in the sales ledger by indicating the name of the buyer, the date the sale was made, the quantity purchased by variety, the unit price by variety and the total price paid. This kind of record helps you to know what kind of people buy your seed, in what quantity, which varieties are most popular, and where your customers are located.
## Sales ledger

<table>
<thead>
<tr>
<th>Name of buyer</th>
<th>Date</th>
<th>Quantity bought</th>
<th>Unit price</th>
<th>Total price</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Variety</td>
<td>Variety</td>
<td>Variety</td>
</tr>
</tbody>
</table>

Record keeping is important for planning purposes. Without careful record keeping your business is likely to fail.
CHAPTER 5: KNOWING THE MARKET

There are seven important areas that you need to consider if you want your seed business to succeed and grow:

- Know what customers want
- Treating customers well
- Dealing with other seed suppliers (competition)
- Creating demand
- Promotion
- Packaging
- Transport

Business success requires hard work
Know your customers

As a seed producer, you need to take into consideration the preferences of both farmers and seed sellers. However, it is important to remember that traders represent the preferences of a third group: rural and urban food buyers. Your main customers, farmers and seed sellers, often have different preferences. Farmers are concerned with the performance of a variety in the field, cooking quality, taste and marketability, while seed sellers are mainly concerned with post-harvest characteristics such as cooking quality, taste and marketability. Farmers will sometimes be interested in varieties that have no market, but the most popular varieties of any crop will be good for both home consumption and sale.

As customers’ preferences change over time, conduct market research regularly (every 3-4 years) to improve your market awareness, find out what your customers want, and change your varieties or crops if necessary.

How to treat customers

How you treat your customers can help increase your sales. Good, friendly service helps to sell seed! Smile when you greet customers.
Provide good service to your customers

Be prepared to answer questions they have about the varieties you are selling. Know the advantages and disadvantages of each variety and be prepared to talk about them. Be prepared to explain how you produce your seed and why it is different from other seed available locally.

If a customer is dissatisfied, find out why. Tell him or her you are sorry for the problem and try to fix it. If there is a problem with the seed itself, consider giving the customer an extra amount free of charge. The rule of selling is “The customer is always right.” You may disagree with him or her, and you may be right, but to sell your product you need to remember the customer comes first.
Dealing with other seed suppliers

Seed sold by other people may affect the success of your business. It is therefore important to have a good understanding of other seed producers. You are likely to face competition from two sources:

- Seed that is sold locally in markets and shops. For crops such as beans, what is sold as seed may be the same as what people eat.
- Seed produced by specialized seed producers such as a seed company or researchers.

Seed that is locally produced in most cases will be sold for a relatively low price because no special care is taken to produce it. In most cases, this seed may not look much different from the seed you produce using special techniques. Your customers may not understand why your seed is much more expensive. It is therefore important for you to present your seed in a way that emphasizes its superior quality. One way to do this is to package your seed. Another way to show the importance of good quality seed is to conduct a seed quality experiment for the public (see the handbook “Producing bean seed”). In a seed quality experiment, seed of different quality (seed you produce, seed from the market, unsorted seed) is planted in order to observe differences in the quality of the crop. A seed quality experiment should be planted in a place in your community where everybody will be able to observe the results (for example along a main road or path).
Specialized seed producers usually operate on a very large scale and may therefore have lower production costs. But remember, this does not mean that the quality of this seed is better. If these producers specialize in a few varieties, you may have an opportunity to specialize in other varieties. In some cases, NGOs, researchers and other organizations may give away seed of new varieties free of charge. This practice may make farmers reluctant to buy your seed. If you become aware of this situation, make the organizations involved aware of your activities and try to persuade them to stop giving away free seed.

**Increasing demand for seed**

For many crops such as beans, soybeans, or groundnuts, once farmers obtain an initial amount of seed, they continue replanting the same seed for several seasons and may buy seed infrequently. This means that over time demand for the variety you produce is likely to decrease, especially if most farmers purchase from you to obtain new varieties. The figure below shows the demand pattern in some communities for seed of new varieties of crops like beans.

![A figure showing how demand for seed of a new variety may drop over time](image)
In order to increase demand, you must have a good understanding of the reasons why farmers purchase seed from you. Some common reasons are:

✓ To obtain seed of a new variety
✓ To obtain seed because farmers have eaten or sold all of their seed
✓ To get good quality seed
✓ To get additional seed to expand area planted.

If the main reason for buying your seed is to obtain new varieties, you will need to think carefully about how to increase demand over time. The following are some suggestions for increasing demand.

**Widen your market**: While it is easier to sell seed in your own village, this market will probably be too small to allow your business to grow and make money. You will therefore need to actively look for markets in other areas. In looking for more distant markets, bear in mind the preferences of farmers in other areas plus the transport and other costs associated with distant markets. It is important to target your market: is it the village, parish, district or higher level?

**Look for new customers**: Don’t just sell your seed to farmers. Traders, schools and development organizations such as NGOs may also be interested in buying seed. Some of these buyers will purchase large amounts of seed and may order from you in advance.
Actively promote your seed: See page 62 for more information.

Change varieties frequently: Declining sales may be a sign that you need to introduce a new variety. Find out from researchers and extension agents about new varieties and how to get seed. Once you get seed, start by testing the new variety on a small plot to assess its performance before making the decision to grow more. When you introduce a new variety, it is important to show and tell clients why this variety is different and what new or added benefits it provides. Ask customers who grow the new variety to tell you what they think about it. This information will help you to decide how much of the new variety to plant the following season.

Lower sale price: If the price you charge is too high, you will sell little seed and therefore not make enough profit to make your business worthwhile. If you can afford it, sell seed at a lower price to increase demand, especially after the first 1 - 2 years. However, make sure that the price is high enough to cover production costs.

Packaging

Proper packaging and labeling is important for certain types of crops such as beans because it tells something about the quality of the seed and makes it look different from seed available from other sources.
Packaging also allows customers to transport the seed easily. For crops such as beans the best packaging material is clear plastic which allows customers to see what they are buying. Plastic of different densities (low and high) is available, although it may be difficult to find this material in rural areas. You can also pack seed in paper bags. It will probably be cheaper to buy packaging material in large quantity, especially if it is only available in large towns or cities. If you are unable to find plastic or paper packaging material, try to think of new packaging solutions using your own ideas. For example, one group made smaller bags from large cement bags.

Good packing helps to sell seed

Carefully consider using different packaging quantities based on information obtained from market research. Also consider things such as yield, farmer preference and price in making packaging decisions. For example, climbing beans, which are high yielding, can be packaged in small quantities. You may choose to package seed of new or non-preferred varieties in very small quantities such as a quarter kilo. The type
of packaging material used will also determine quantity. Poor quality bags or plastic can only be used for small quantities.

Each package should include a label, either directly on the bag, on the plastic or as a separate label. Labels should include the following information: the producer’s name and address, the name of the variety and some information about its characteristics, the quantity, a warning that the seed is treated and something about the class of seed.

**Promotion**

Product promotion or advertising is important to increase demand for your product. There are different ways to promote your seed. Some examples are:

- **✓** If a group is producing seed, perform a play to tell people about the importance of buying good quality seed. Perform the play at a time that many people can attend and at a place that is easy for them to get to.

- **✓** Find new places to sell and display your seed. For example, sell seed in markets, schools that have gardens, through the extension service, and shops that sell agricultural inputs. It is important to remember however, that if you sell your seed through middlemen, they may offer a lower price.
Talk to students about seed and organize school visits to your farm. Students usually tell their parents about what they have seen.

Contact a shop owner about allowing you to put up sign at his/her shop and ask if you can come to talk to customers about the seed.

Send special letters and announcements to government agencies and NGOs in your area telling them about new varieties and current prices.

Make posters to advertise your seed.

Promote your seed at agriculture shows and fairs.

Use different ways to promote your seed
Transport

Transport is a major cost but can be very profitable if there is high demand for seed in another area of the country. The location of your market will determine the kind of transport you need. If you sell your seed in your village, transport may not be a problem. However, you will have to consider transport by vehicle if you sell seed outside of a small area. The type of transport you consider will also depend on what is available, the cost, and the amount of seed to be transported.

Finding transport may be necessary and can be very profitable

A group or individuals working together should consider pooling their resources and renting a truck or pickup since it is cheaper to transport large quantities. One way to reduce costs is to transport seed in the same vehicle as other goods. Cost out all the possibilities and include the costs in your business plan. Make sure that whatever transport you use protects the seed against rain, direct sunlight and other conditions that might damage it.
CHAPTER 6: EXPANDING AND ORGANIZING YOUR BUSINESS

To be successful, a business must grow over time, that is, it should show an increase in profits and production level.

A seed business should grow like a tree, slowly but surely

Consider several important factors and questions before making the decision to expand your business.

✓ Profitability of your business: Have you shown increased sales and profits for at least two years?

✓ Change in market: Has the market changed according to your market research?

✓ New products: Do you have access to new varieties that are accepted by farmers, traders, and food buyers?
Resources: Considering that there will be additional start-up costs, do you have enough money to expand your business? Do you have land available for expansion or can you buy or hire it at a price that will continue to show a profit for what you are planting? Will you be able to get a loan?

Labour: Do you have enough labour to produce more seed?

Transport: Have you found adequate transport for larger quantities of seed at a price you can afford?

If you answer yes to 3 or more of these questions, it may be the right time to expand your business.

Forming a seed growers’ association

As your seed business expands and other farmers in your area become specialized seed producers, consider forming a seed growers’ association. When people are organized in a group with others who have similar interests, they have more power and can often accomplish more.
A seed growers' association helps local seed producers operate more effectively

A seed growers’ association can operate at different levels: within a region or several regions or at a national level. The purpose of such an association is to:

✓ Help producers solve common problems together
✓ Represent the interests of seed producers to higher authorities such as the government. For example, an association could put pressure on the research system to develop new crop varieties more regularly
✓ Provide better access to information related to seed production, technical services and inputs such as seed
✓ Make it easier for members to purchase inputs in bulk and therefore save money
✓ Enable members to form linkages with researchers and specialized seed producers in other parts of the country.
The following section briefly outlines how to form a seed growers’ association. You can get more details about forming an association from local NGOs or extension agents.

**How to form a seed growers’ association**

**Organize a meeting:** Find out the details of other seed producers in the area by consulting extension officers, NGOs and other agricultural organizations. If possible, arrange to meet some of the producers to discuss the idea of an association. It is important to convince other seed producers of the benefits of an association before you organize a meeting. You may decide to form an association that deals with only one crop or several crops. This will depend on how producers are organized and the number per crop.

Call a meeting of seed producers in your area. Send out letters inviting other seed producers to a meeting to discuss the idea of setting up an association. Hold the meeting at a convenient place. Beforehand, arrange to get paper and markers to write what you discuss. The meeting should discuss general ideas only.

**Holding the first meeting:** Identify someone to lead the meeting (this person is called a facilitator). The facilitator’s job is to start the discussion and encourage people to speak freely. Before the meeting, the facilitator should make a list of issues to be discussed. These should include:
Introduction of participants. Each participant should give background information on their seed business such as which crops and volumes they produce, target markets, how they operate, benefits of their business, problems faced and future plans.

A general discussion of common problems seed producers face.

A discussion of how participants could benefit from an association.

A discussion of the association’s goals and expectations. It is important to define objectives in a clear way. What do people want to do? How and when do they expect to achieve their goals? Remember that people usually expect too much too soon. They may think that by forming an association all their problems will be solved quickly. Members may get disappointed and the association may collapse. The facilitator needs to remind people that the advantages of an association can only be realized through hard work, self-sacrifice and a clear focus on realistic objectives.

Assess the costs and benefits of an association. Participants need to estimate how much it will cost to establish an association. This may include giving up free time to attend meetings and contributing savings to finance activities. Do the benefits outweigh the cost? If so, do
all participants agree to share those costs? If all participants agree, proceed to the next step.

Starting a seed growers’ association: Once the group has agreed that they can benefit from forming an association, you should discuss the following issues about how the association will run.

**Rules:** Discuss what rules members will follow regarding how to take decisions, when and how often to hold meetings, what type of leaders to have and how to elect them, and membership fees. Later these rules should be written as part of the constitution, that is, a written record of the purpose and rules of the association. The constitution will help the association to avoid internal conflicts and make the responsibilities of each member clear. The constitution should include the purpose of the association, rules of membership, election of officers, meeting schedule and how the association will finance itself.

**Membership:** Make a list of people, both individuals and groups, interested in forming the association. Remind people that membership means having certain rights and obligations.

**Leadership:** Associations need leaders and organization. The simplest form of organization is a management committee composed of a president, secretary, and treasurer who manage the association on a day-to-day basis. Other positions can be added as needed. Other committees can also be added to work on specific issues.
**Record keeping:** It is important to keep records of what was discussed and decided on during each meeting. Decide who will keep the records.

A seed growers’ association should develop gradually in line with the development of the seed producers who make up its membership.
CHAPTER 7: SUMMARY

Several factors are important for success in producing seed as a business.

1. To succeed in the seed business, producers must be hard working, well organized, able to make decisions and take risks, and have good business sense and financial knowledge.

2. A seed business works best for crops and varieties that have a high or moderate seed demand. Conduct market research before starting a seed business and every 3-4 years to improve your awareness of what customers want. Make sound business decisions based on accurate information about the market you have targetted.

3. Grow seed efficiently to lower production costs and maximize profit. Plant high yielding varieties in fertile soils and manage your fields well. Set the price of your seed at a level that allows you to make a profit but is affordable for farmers.
4. Make efforts to increase demand for seed by widening your market, looking for new customers and changing varieties regularly. Convince customers of the superior quality of your seed by packaging and labeling the seed, offering good, friendly service, and maintaining a reputation for high quality seed.

5. Plan your business by keeping good records on sales, profits, your net worth and how you spend money. Make realistic business decisions based on monthly income projections.

6. A successful business grows over time. One way to encourage better seed production and represent the interests of producers is to form a seed growers’ association.
QUESTIONS TO INCLUDE IN A MARKET RESEARCH INFORMAL SURVEY

Questions for farmers

For which crops do farmers experience seed storage?

Why do farmers experience seed shortages? When? How often?

Where do James get seed from when they run out?

Do some farmers run out of seed more often than others? Why? Which farmers?

How much seed do farmers buy per season?

How much seed do rich, average and poor farmers buy?

Are farmers satisfied with the quality of seed they obtain from other sources?

Are there other farmers or institutions in your area that produce seed for sale? How many? Who are they?

Which crops and varieties do they produce?

What is the price of their seed?

What are the common varieties (of specific crops)?

What are the positive and negative aspects of each variety?

Are they easily attacked by pests and diseases?
What are the yields?

Is there much demand for seed of these varieties in this village/group of villages/sub-county/district?

Are there varieties that farmers like which are difficult to find seed of?

What are the positive and negative aspects of each variety?

Are they easily attacked by pests and diseases?

What are the yields?

Is there much demand for seed of these varieties in this village/group of villages/sub-county/district?

What new varieties have come into the area in the past 4 years?

Where have they come from?

What are the positive and negative aspects of each variety?

Are they easily attacked by pests and diseases?

What are the yields?

Is there much demand for seed of these varieties in this village/group of villages/sub-county/district?
Questions for seed sellers

Are farmers interested in buying seed (ask for different crops)?

Why/why not?

Which varieties do you sell as seed?

What are the highest and lowest prices for seed of specific varieties?

Which varieties do you sell for eating?

Which are the highest and lowest prices of specific varieties?

What amount of seed do you sell every year?

How much does this amount vary by season/year?

Where do you sell your seed?

Who usually buys your seed?

Where do most of your customers come from? (locally? other districts?)

What is the price of your seed?

How much profit do you make from selling seed?

Do you ever run out of seed?

Can you estimate demand for seed in the market that you serve (for each variety)?

What are the most important things that traders look for in varieties of crops that you plan to multiply?
Do different types of traders like different characteristics?

Are there farmers or institutions in your area that produce seed for sale? How many? Who are they?

Which crops and varieties do they produce?

What is the price of their seed?

Does seed come from other parts of the country to your area?

Who produces it?

Who sells the seed?

Which crops and varieties are provided?

What is the price of this seed?

What is the quality of the seed (certified, improved)?

How do other seed producers and seed sellers attract customers?
Questions for schools, NGOs, development projects

Does your institution purchase seed?

Which crops? Which varieties?

What is the seed used for?

What quality of seed do you purchase (certified, improved)?

How much seed do you purchase each season?

How much do you pay for seed?

What do you think about the quality of the seed you purchase?

Are you satisfied with the arrangement you have for getting seed?

Would you be interested in placing an order for seed? For which crop? Which varieties?

How much seed would you be interested in ordering?
Questions for researchers and extension agents on seed laws and policies

Where can I get clean seed for seed multiplication (indicate crop)?

How much does it cost?

Is clean seed easily available?

How much demand do you think there is for good quality seed (indicate crop and varieties)?

Is there demand for good quality seed in other parishes/sub-counties/districts?

What new varieties are currently available which are suitable for this area (indicate crop)?

How much demand is there for these new varieties? Can you give estimates?

What are the categories of seed recognized by the government for specific crops?

What are the quality standards required for each category of seed?

What are the government regulations regarding seed production?

What are the requirements for small-scale seed producers?

Do you need to register a small business?
Table for organizing information on crop demand

<table>
<thead>
<tr>
<th>Demand for seed of: ____________(fill in a separate table for each crop you are considering)</th>
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<tbody>
<tr>
<td></td>
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<tr>
<td>Expected level of demand for seed from farmers in general</td>
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<tr>
<td>Expected level of demand by different types of farmers: Rich</td>
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<tr>
<td>Average</td>
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<tr>
<td>Poor</td>
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<tr>
<td>Very poor</td>
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<tr>
<td>Expected demand from schools</td>
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<tr>
<td>Expected demand from development organizations</td>
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</tbody>
</table>

Table for organizing information on seed prices

<table>
<thead>
<tr>
<th>Major varieties sold</th>
<th>Sources which sell each variety</th>
<th>Price of at planting time</th>
<th>Price in the middle of season</th>
<th>Price at harvest time</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Grain</td>
<td>Seed</td>
<td>Grain</td>
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<tr>
<th>Table for organizing information on demand for existing varieties</th>
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<td>Variety name</td>
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<th>Table for organizing information on new varieties</th>
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<td>Variety name</td>
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Equipment for producing bean and potato seed

Below is a list of equipment and inputs needed for bean and potato seed production. A * indicates the equipment that you cannot do without. Other equipment can be purchased as your business expands.

**Equipment and materials for producing bean seed**

Good quality seed*
Fertilizer
Insecticide
Sprayer for applying insecticide
Polythene sheets for drying seed
Threshing rack*
Platform sorter
Sampling spear*
Treatment drum
Chemicals for treating seed*
Polythene bags for storing and transporting seed*
Bags for packing seed
Weighing scales
Silo (metal bin) for storing seed
Storage shed

**Equipment and inputs for producing potato seed**

Good quality seed*
Fertilizer
Fungicide*
Insecticide
Sprayer for applying insecticide/fungicide*
Bags for packing seed*
Weighing scales
Diffused light store*
1. **Introduction**
   A new business will supply good quality seed of improved and local bean varieties.

A. **Details of the business**

   Name: Quality Seed  
   Type: Family business  
   Address: P.O. Box 6000, Mbale, Uganda  
   Personal details:  
   Mr Peter X (manager), farmer, 20 years of experience in bean production. Attended training course in bean seed production by CIAT. Experience in running a bakery.

   Mrs Rose T., farmer, 15 years experience in bean production. Attended training course in bean seed production by CIAT. Experience in running a poultry business.

   Labourers: to hire 2 full time labourers and others as needed.
B. The product

Improved seed of several bean varieties including K132, K131, OBA 1, Kahura

Description of varieties currently grown:

K132: large seeded, red mottled, high yielding, tasty, very marketable. Looks like a popular local variety.

K131: small seeded, beige, high yielding, tasty, drought resistant, used for food security.

OBA 1: large seeded, red mottled, high yielding, tasty, very marketable.

Kahura: popular local variety, grey, large seeded, very tasty, very marketable.

Major factors influencing choice of crop and varieties: Most farmers in this area grow beans as a cash crop and therefore keep little seed. As a result there is high demand for seed of both local and improved varieties. Farmers are willing to pay high prices for good quality seed, especially of improved varieties.

C. The market

Target market X sub-county. Bean farmers in X sub-county (30%), schools with large gardens (5%), NGOs (40%), district farmers’ association (10%), input suppliers (15%).
Scale of production: the business will produce a total of 1 ton of seed each season.

Distribution: Seed will be packaged in polythene in varying quantities (1 kg, 5 kg, 10 kg) and sold directly to farmers and schools from the owners’ home, through NGOs, input suppliers and the district farmers’ association. The main sale periods are planting time: March and August.

D. Resources

Land: 5 acres are available for seed production
Workers: 2 full time laborers will be employed as well as several casual workers. They will do all of the field and post-harvest work.

Record keeping: to be kept by the manager.

Equipment: seed,
Fertilizer
Insecticide
Sprayer for applying insecticide
Polythene sheets for drying seed
Threshing rack
Platform sorter
Sampling spear
Treatment drum
Chemicals for treating seed
Polythene bags for storing and transporting seed
Bags for packing seed
Weighing scales
Storage shed
Communication: telephone

Phases of development

Phase 1: Pre-establishment
Phase 2: Establishment (current)
Phase 3: Expansion/diversification

Phase 1: self-sponsored

Activities:
Market research
Establish relationship with extension and research system
Determine varieties
Determine price
Establish contacts with NGOs, farmers’ association, schools
Plant a seed plot for 2 seasons and sell seed

Phase 2: 2-3 years

Activities:
Register business
Open bank account
Take orders

Phase 3: After 2-3 years

Activities:
Introduce new crops and varieties
Purchase new/larger equipment
Obtain loan
Expand market
BUSINESS LANGUAGE

Asset: Something that has money value

Bulk: A large number or large amount

Business sense: Knowing all the areas of your business and how to manage them

Certified seed: Carefully produced seed of high quality that meets certain requirements. Large companies or organizations usually produce certified seed

Cost of production: All costs involved in making a product

Demand: A desire for goods or services by people who wish to buy them

Depreciation: The amount per year an item decreases in value from usage or wear

Fixed costs: Costs to a business that do not change often and last more than a season. Many start up costs are fixed costs for permanent equipment, storage facilities, vehicles, and mortgage payments

Improved seed: High quality seed produced using specialized procedures. This is one of several classes of seed that may be recognized by the government. Other classes are certified and farmer’s seed
Improved varieties: Varieties that were developed by researchers. These varieties usually have higher yields and are more resistant to diseases and pests than local varieties.

Income projection: A way of estimating income and expenses you plan to make in the future.

Informal survey: A way to collect information by asking questions to a small number of people who represent many other people. The questions to be asked are written down and the person asking the question writes down the answers given to each question.

Inventory: A supply or stock of goods.

Ledger: A special kind of exercise book for keeping business records.

Local market: The people from your community who will buy your product.

Local varieties: Varieties that farmers have been growing for a long time.

Market research: An organized way of collecting information about what products or services people need and want to buy, the amounts they need and the price they are willing to pay for it.

Net worth: The amount of money your business is worth. It is important to calculate the net worth of your business every six months.
Profit: The money you earn after all costs of doing an activity have been paid

Profit mark-up: The amount of money added to the cost of an item that is being offered for sale, and which provides a profit

Promotion and advertising: Methods and activities used by business people to persuade others to buy a product

Seed: The part of a plant which is planted. With some crops such as sweet potatoes and cassava, the seed or planting material cannot be eaten

Selling price: The price for which goods or services are offered for sale

Working costs: Costs of production that change from time to time. Also called variable costs
NOTES