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Canadian Variety Cabbage seeds to Grow in Nepal

The aim of this report is promoting Canada and Nepal agricultural cooperation, and the idea is that Canadian variety cabbage seeds can be exported to Nepal. Exporting Canadian variety cabbage seeds can bring a lots of benefits to both Canada and Nepal. The cabbage is very common in the world, in other word, the demand of cabbage is very large. the follow parts will introduce the cabbages in Canada, the cost of planting cabbages, the issue for planting cabbage, the transportation from Canada to Nepal and analysis these benefits through the products information and conditions in Canada and Nepal.

Part I: Cabbages in Canada

The first part of the analysis will examine the cabbage seeds information from Canada. Canada has variety cabbage seeds, such as Caraflex cabbage seed, hybrid early cabbage seed and hybrid winter cabbage seed. The Caraflex cabbage is good tasting, sweet and tender. The website for selling Caraflex cabbage seed has shown that Caraflex cabbage produces compact plants and allowing for dense planting, it takes 50 days from transplanting to mature (Veseys). The hybrid early cabbage seed can grow in the summer, and the hybrid winter cabbage seed can grow in the winter. These variety cabbage seeds can grow in all four seasons. Caraflex cabbage seed sells for \$5.50 per kilogram, and around 40-50 seeds can be planted in a 50 foot row. It has been found that cabbage has a lots of vitamin C and some elements that human needs, such as calcium and iron (USDA, 2012). The evidences suggests, therefore cabbage has a short period and brings a lot of nutritious, it is very suitable for exporting to Nepal.

The cabbage seeds do not have to many limiting conditions, and it is easy to grow. For climate, the best temperature for cabbage seeds is 60 to 65 degrees Fahrenheit, but the cabbage seeds still can grow at the temperature as low as 45 degrees Fahrenheit and as high as 80 degrees Fahrenheit (Eulalia Palomo and Demand Media, 2015). For soil, the cabbage seeds have a wide range of soil, and the optimum pH for cabbage seeds is 6 to 6.5 (Barbara, 2012). Base on these information, the cabbage seeds can grow in many places without condition limit.

Planting cabbages in different type:

Many family in Canada accept to plant cabbages seeds in backyard. The figure 1 show the cabbage seeds grow in family, and the figure 2 show that cabbage seeds grow in normal land. Based on pictures, the cabbage do not need additional tools to grow. The figure 3 show that the cabbage seeds grow in green house, it has some benefits. The cabbage seeds grow in this way can grow very fast and get more green house effects, the cabbage in green house can get a high temperature. Depend on the local temperature, the farmer can decided use the normal way or green house.



Figure 1.

Figure 2.



Figure 3.

The cost:

The cost of sowing cabbage seeds can be divided into two main ways. Firstly, the farmer can choose manual sowing cabbage seeds, it costs a lot of labours. Secondly, the farmer can use machine to sow cabbage seeds. The seeder is different, and the price will change with the different seeder. Most of seeder over \$10,000 (Farmmachinerysales). Even the seeder is very expensive, it can sowing the cabbage seeds very fast and make the cabbage grow in order. For harvesting cabbage, the most way is the manual harvesting, it also cost a lots of labours. The advantages of harvesting by manual is that the different type of cabbages can be distinguished, and people can choose the different cabbages for different price. Some of cabbage may grow very well, it can be sale with a good price.

The issues:

There are some issues for planting cabbage seed. At first, the farmer need to make sure that the cabbage can get enough water, and the cabbage can grow very fast with plenty of water. Secondly, the farmer should prevent the plant diseases and insect pests. The most common injurious insect is cabbage maggot. The cabbage maggot is a small gray-white insect which looks like fly, and they will lay eggs on the plants and eat the root (Steve Albert, unknown). On the other hand, the farmer need to prevent the fungal disease. The clubroot is a big issues for cabbage, and the fungus will absorb the water and nutrition from cabbage roots (Steve Albert, unknown). If the farmer find infected cabbages, they should remove the infected cabbages. This way can make the infected plants will not affects other plants.

After harvesting, the cabbages have two ways to get benefits. The cabbages have a lot of beta-carotene, and it can be used to prevent macular degeneration and delay the cataract formation (Organic fact, unknown). The fresh cabbages can be transported to market for selling. For a long period storage, the cabbages can be produced to pickled vegetable.

The benefits to Canada:

Exporting Caraflex cabbage seeds to Nepal can bring many benefits to Canada. It is noticeable that export can promote Canadian economy, and it can be divided to three parts. Firstly, the government can take more revenues whatever it is from the seed companies or transport companies. The Veseys company can sell more cabbage seeds from this transaction, and the transport companies need to transport the cabbage seed from Veseys to Nepal. The Veseys seeds company and transport companies can

make more money, in the other word, they need to pay more taxes. This international transaction can promote Canada economy. Secondly, exporting Caraflex cabbage seeds also can decrease the rate of unemployment. Based on the Figure 4. The rate of unemployment in Canada from Jan 2015 to Oct 2015 is over 6%. It means that many people still do not have work. As Caraflex cabbage seed export to Nepal, the company Veseys who sell the Caraflex cabbage seeds will get more work. So Veseys need to expand dimensions and employ more people for dealing with collecting seeds and exporting works. On the other part, the Caraflex cabbage seeds need to be transported to Nepal, and it will increase the transportation work, so the transportation companies also need to employ more people to work. The last point is that exporting Caraflex cabbage seeds can improve the local people standard of living, especially for people live in York, Prince Edward Island. The Veseys company located in York, Prince Edward Island. The people in York, Prince Edward Island can get more work and more money because of the export. The government of Prince Edward Island can take more taxes. In the other word, citizen can get more benefits. According to Foreign Affairs, Trade and Development Canada “In particular, Canada’s exports helped the country weather the global economic downturn in 2012” (FATDA, 2013). This article listed many facts to prove the exporting bring many benefits to Canada. The exporting can bring a lots of benefits to Canada, even in the global economic downturn, the exporting can help Canada to pass over the difficult period. So Canada need more exporting to improve the economy.



Figure 4

Part II:

The transportation:

The transportation can be divided two parts. First at all, the cabbage seeds need to transport from Vesey to Toronto, and then the cabbage seeds can be transported from Toronto to Nepal. Through the FedEx quote the packages can shipped from Vesey to Toronto in 3 business days by \$1.2 per kilogram. (FedEx, 2015). Based on the A1 Freight Forwarding, the cabbages seeds can be shipped from Toronto to Kathmandu, Nepal by air \$3.45 per kilogram (A1 Freight Forwarding, 2015). By this way the total cost for shipping is \$4.65 per kilogram. The Vesey company can deal with the transport companies about the cabbage seeds transportation. If they ship a large amount of cabbage seeds, they can get a cheaper quote. By this way, they can decrease the cost.

Introduction of Nepal:

The Nepal located in Himalayas between China and India, and the area of Nepal

is 147,181 square kilometers (OWNO, unknown). Base on figure 5, the population of Nepal rapidly increase, and by 2015, the population of Nepal reached 28.12 million. urban population in Nepal make up 17 percents of total population, and the rural population is 83 percents. Nepal must have a plenty of food supplement to fed people. Nepal has three main topological regions, the lowland, the midland and the highland. The mountain area make up 64 percents of total land. (OWNO, unknown). Nepal has complex geomorphology, and most of the land is mountains. It means that the farmers must choose the seeds can be planted in the mountain areas.



Figure 5

Storage/refrigeration issues from post-production to market:

The best suitable temperature for storage cabbages is 32 degrees Fahrenheit, and the storage rooms should have ventilation (AFRA, unknown). The most importing thing is that preventing the cabbages be bruised because the bruising of cabbages will easy got diseases. When the farmer find the damaged cabbages, they must remove the damaged cabbages to avoid that the damaged cabbages affect the health cabbages.

The cost of planting cabbages in Nepal:

The costs and profitability evaluations is a basic tool for farmers to make decision and analyses the costs. Base on above information, the cabbages seeds for sowing can be divided into two ways, the manual and seeder, but for harvesting, it only can be finished by manual. In the other word, the planting cabbages need a lot of labours. Nepal got 83 percents rural population, and it is a developing country. It means that the labour in Nepal is cheap. By 2008, the average working time in main job per week is 38.7 hours, and the average monthly wage is 5,117 rupees in Nepal (ILO, 2015). The exchange rate between Canadian dollar to rupees is around 50, it means 1 Canadian dollar can change 50 rupees. The planting cabbages in Nepal with a low input cost.

The cabbage seeds to sell in Nepal:

For selling cabbage seeds in Nepal, the Vesey company can establish controlled company in Nepal. By this way, the Vesey company can get the cabbage seeds in Nepal, it may save the money for transporting cabbage seeds from Canada to Nepal. The cost of establishing controlled company in Nepal will be expensive. By the other way, the Vesey company can cooperate with National Seed Company Ltd. National seed company Ltd was founded in 2002, Kathmandu, Nepal, and the National seed company Ltd stores and sells the vegetable seeds for agricultural productions (National Seed company Ltd). The vesey company also can contact the local agriculture market in Nepal. The last point is that the Vesey need to have the advertisement in Nepal, it is very import. The farmers in Nepal need to know the

Canadian cabbage seed's advantages, for example, the Canadian cabbage seeds can grow very fast and it can be planted in mountain areas. The company should have its own website in Nepal, and the farmer who wants to buy the Canadian cabbage seeds in Nepal can order online. The imported cabbage seed is different from local cabbage seed. The imported cabbage seed can grow Canadian cabbage, and the imported cabbage can be sold with a good price.

Describe Trade/subsidy barriers:

In fact, the average tariff for agriculture products in Nepal is 42 percent, and all other products' tariff in Nepal is 24 percent (TWB, 2013). The Canadian cabbage seeds belong to agriculture products, so the tariff of the Canadian cabbage seeds should be 42 percent. Even the tariff of the Canadian cabbage is higher than other products, it still can bring a lot of benefits.

Evaluate regional and global competition:

Nepal has three main terrains, lowland, the midland and the highland. Different vegetables grow in different terrains. The Canadian variety cabbage seeds can be planted in different terrains so the cabbage seeds can be planted in whole Nepal. The price of cabbage varies, and it is determined by the forces of demand and supply. At first, the cabbage seeds can be planted in dense population areas. The dense population areas mean that they will have a large demand for cabbage, the farmer can sell fresh cabbage with a good price in dense population areas. The highland in Nepal is not suitable for many vegetables, in these areas still need a large food supply. The Canadian cabbage seed can be planted in highland areas to content the demand in

highland areas. In global competition, China, India, Russia, South Korea, Japan, and Poland are top countries in cabbage production, and South Africa still need to import a lot of cabbages every year (AFF, 2012). Nepal in the Himalayas between China and India. China and India both are top countries in cabbage production, it means that the cabbages grow very well in these countries. If Nepal plant the Canadian cabbage seeds, it can compete with China and India. Even if the Nepal plant too many Canadian cabbage seeds and the supply over demand, they still can import the cabbages to South Africa. If Nepal import the cabbages to South Africa, they can get a lot of benefits from the trade.

The benefits to Nepal:

In the other hand, there are many benefits to Nepal. The first point is that the Caraflex cabbages is healthy and can prevent the diseases. For example, the Caraflex cabbage has a lot of vitamin C. Based on Robert's journal that vitamin C may prevent manifestations of existing coronary artery disease (Robert, 1998). That is to say Caraflex cabbages can reduce the rate of morbidity to Nepalese. The cabbages have a lot of nutrition, and it can provide a lot of energy. Nepal is a developing country, some people in Nepal still can not got enough food. If the farmer plant the cabbage seeds, the yield of cabbage will increase, the cabbage can provide to people in Nepal. The second point is that Nepal can promote economy by importing Caraflex cabbages seeds. The farmers can get more benefits by planting Caraflex cabbages seeds, and the government can get more taxes from farmers. The government also can take the duty from the importing cabbage seeds. The farmer plant the cabbage seed will need a lot

of labour for sowing and harvesting. A lot of people in Nepal still do not have work, and the farm can employ these people work for planting cabbage seeds. The last point is that Nepal is suitable for planting Caraflex cabbages seeds. Institute of Agriculture and Animal Sciences research show that “Nepal is a mountainous country, with complex topography and varying environmental and climatic conditions” (John Duncan and Drona Budathoki, 2011). The most of land in Nepal is mountain area, this limit means that the farmer need to choose the plant can grow in mountain area. The Caraflex cabbages can plant on various topographies, and it grows in the cold areas. There are still a lot of mountain areas in Nepal without planting, and Canadian can be planted in the areas. In the other hand, the Canadian variety cabbage seeds can be planted in four seasons. Based on the above information, the hybrid early cabbage seed can be planted in summer, and the hybrid winter cabbage seed can be planted in winter. The period from plant to mature is very short about 50 days, it means that the farmer can get profit in a short period. In one word, Canadian cabbage seeds can make the Nepal reach a higher life standard.

In general what this means that exporting Caraflex cabbages seeds can promote Canada and Nepal agricultural cooperation, it also can bring a lot of benefits to Canada and Nepal. For Canada, exporting the cabbage seeds can promote Canadian economy, decreasing the rate of unemployment and improving the local people life standard. For Nepal, the Canadian cabbage seeds can help the people in Nepal prevent the diseases and promoting the Nepal economy. The cabbage can provide enough supply for Nepal demand. Even the cabbage supply over demand, Nepal still can

export the cabbages to other countries. The most import point for Nepal is that the Canadian cabbage seeds are very suitable for Nepal topograph. Even there are some barrier for exporting cabbage seeds to Nepal, such as higher tariff and expensive transportation cost, but there are more more advantages than disadvantages. I suggest that the Canadian government should export the Cabbage seed to Nepal.

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Figure 2: <http://greenfustock.photoshelter.com/image/I0000U0o3GRs7zCw>

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