

AVERAGE PRODUCTION COST AND PROFIT MARGIN OF PULSE, OILSEED, SPICE AND COMMERCIAL CROPS

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FOREWORD

The study on the Average Production Cost and Profit Margins of Various Agricultural Crops is very important for various kinds of stakeholders. This study has been an integral part of a regular activity of Market Research & Statistics Management Program (MRSMP). Such studies are conducted from the center as well as various District Agricultural Development Offices during recent years. The overall scenario of cost of production and its associated profit margin is important particularly from stand point of policy makers, researchers, businessmen and individual farmers. Comparison of such statistics becomes important especially for a commercially driven type of agribusiness.



The policy of the MRSMP is to generate data, information & keep in records as far as possible. Therefore, using information from various formal and informal sources and coordinate such tasks with the respective Program Directorates & District Agriculture Development Offices have been the recent approach of this office. The centre level is basically involved in monitoring and supervising such tasks as well as other socio economic studies of farmers, women and other disadvantaged groups in the country. Program office would continue putting its efforts in this direction in coming days too.

The study has also suggested some points on how to keep Pulse, Oilseed, Spice and commercial crops production in a sustainable, profitable and prestigious manner with the thrust to give an effort to uplift the farming occupation, give striking profit margins in them over a period of time. We hope that the present study would serve dual functions of the Department of Agriculture in addressing the issues as per the needs of the people who serve the nation in various capacities.

This study is brought to the shape by our colleagues Mr. Mahendra Kunwar and Mr. Kishor Parajuli, Agri Economists. The farmers, extension workers of District Agriculture Development Offices and the staffs of MRSMP who were involved in different ways also deserve our thanks. Finally, special thanks to the Technical Committee & the Department of Agriculture for encouraging directions to bring out the report in this shape.

Thank You!

Netra Bahadur Bhandari
For Chief

Ashad, 2072

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Average Production Cost and Profit Margin of Pulse, Oilseed, Spice and Commercial Crops

1. Introduction:

The agriculture sector and its overall development is directly linked with the objectives of meeting basic needs of the people. The level of farm production and farmers' income depend upon how the farmers plan and manage their farms. Farmers usually perform production planning and management in their own judgment as per individual's capacity and family needs. However, they surely can maximize their farm income by adopting profitable enterprises which manage the resources for maximizing the returns and minimizing costs as well as improving the overall efficiency of farmers. It is the major concern of all the institutions involved in uplifting agricultural livelihood. Information on cost of production and marketing margin is helpful to all the policy makers; agricultural scientist, researchers and farmers communities including the farmers.

The cost of production is an aggregate of fixed and variable costs incurred in crop production. There exists substantial gap in our knowledge concerning critical aspects of farmers' decision-makers regarding profitability. Management capabilities of farmers get improved once they come to realize some facts through direct observation and available information or document. Data on cost of production can help farmers in their decision making process during the selection of farming business. Farmers get knowledge of profitability as per their agro climatic conditions by comparing the cost of production of different crops as well as other farming activities.

This report has been published with the special emphasis on Pulse, Oilseed, Spice and Commercial Crops. Tea, Coffee, Bettlenut (Catechu), Cardamom, Mushroom were the prime concerned commercial crops of the study. We have put forward an effort to impart some light in this concern as well.

The substantial gap remains in our knowledge concerning critical aspects of farmers' decision-making and profitability. Managing capabilities of farmers get improved once they come to realize some facts through available information or documents. The recorded data sets help in recommending the farmers what to grow, how much to plant, which varieties yield higher and subsequent selection of crop

types or varieties; growing conditions, level of inputs to be used etc. Farmers get knowledge or confirmation of profitability on growing different crops suited to their agro-climatic area. Data on the cost of cultivation also play important role in making decision by the planners and policy makers thereby results in the well being of the farmers. The present report aims to fulfill the above kind of requirement for major agricultural growers concentrating on major Pulses, Oil, Spices and Commercial Crops.

2. Rationale:

The present study represents the crop production level and input use in the selected production areas of some important districts. The yield and input use level, here noted, may appear to be higher compared to the national average production. Nevertheless, it is hoped that it would be helpful to assess the status of various efficiency indicators and provide basis to judge appropriate resource allocations by farmers so that the effective costs can be reduced to some extent if possible. In addition this report will also assist toward formulation of appropriate price policy. But the generalization of the report is specific to the district condition along with the varietal cultivars in response. In the crop categories of Pulse, Oilseed and Spice crops there were plenty in numbers however few other crops were covered less due to budgetary, time and manpower limitations.

3. Objectives:

The objective of this report is to provide information on production costs and returns of major Pulse, Oilseed, Spice and Commercial Crops by production condition and ecological belts.

The specific objectives are:

- To estimate cost of production of different crops by district those are noted to be important in terms of volume and production importance.
- To provide data on the cost and return of major arable crops by production condition and varieties by the use of different technologies.
- To estimate profit margin of various crop by districts.

4. Methodology:

The report has been compiled by conducting field surveys for primary data collection of major crops growing areas of various districts through structured questionnaire and administering the farmers on recall basis. It also uses the published reports of some District Agriculture Development Offices (DADO) on cost of production of agricultural crops as part of their annual program and the input data supplied by the DADO for the secondary sources. Similarly, the wholesale price data is used from the reports of Agribusiness Promotion and Marketing Development Directorate for the verification of the market price of the product.

The Survey was conducted in 72 districts and the districts were purposively selected as per the prominent crops. A well structured open ended questionnaire was designed and survey was conducted jointly by the Program and the District Agriculture Development Offices. The collected questionnaires were processed manually as well as using MS Excel program. The tentative summary of the research was presented in the Technical Committee meeting and the advices given in the presentation was incorporated before the publication.

5. Definition and Concepts:

The followings are the definitions and concepts used in the study.

5.1 Cost of Production:

Cost of production, the core of this study has been reported in two forms viz. (a) Total Cost per hectare and (b) Cost per quintal.

(a) Total Cost:

This is the summation of all costs, both in cash and kind including household labor incurred during the production process.

(b) Cost per Quintal:

Cost per quintal is computed on the basis of "total cost" minus "value of by-product" divided by "volume of main product in quintals" using the following formula.

$$\text{Cost per Quintal} = \frac{\text{Total cost per hectare} - \text{Value of by-products}}{\text{Total volume of the main product}} \times 100$$

However, as no by-products were reported to have been valued, the by-product case is not applicable at this point. So the formula will remain at this moment as:

$$\text{Cost per Quintal} = \frac{\text{Total cost per hectare} - 0(\text{due to zero value of by-product})}{\text{Total volume of the main product}} \times 100$$

5.2 Production Condition:

Production condition may vary within and between the districts depending upon its geographical conditions and niches of the respective districts. As the study is concerned, it has taken an account of the mountains, hills and Terai districts and its popular varieties. However being strict, the production condition denotes irrigation condition (irrigated/rain-fed). Varieties of crops considered are noted as local/improved under which the crop is cultivated. Similarly other major crops under the study comprises of improved cultivars as main season crops.

5.3 Total Variable Cost:

Total variable cost are the cost at market price level and incurred both in cash or kind on items such as human labor, bullock labor, seed, manures, fertilizers, plant protection aids, staking or other costs like transportation charges. The interest on variable cost has been calculated at 12 percent per annum and has been accounted as per the number of the months that crops withstand. Similarly the management and the Land Lease have also been incorporated with the total variable costs in vegetable crops and industrial crops however only management cost has been accounted in and the land lease have not been reported as it is not vogue for the cereal crops and cotton. Level of these costs varies depending on production locations, technology use and scale of production.

5.3.1 Human Labor:

Human labor is one of the important components of cost involved in cost of crop production. It has been expressed in terms of adult man-day (eight working hours) in the field. Generally in rural areas, woman workday and child workday

is converted in terms of adult man-day, and it is being calculated as it usually in practice. However the reported price of the labor might get different from the District Labor Rate as the survey (primary survey) has counted the price in usual practice only.

- 1.25 woman days is equivalent to one-man day; implying 1 woman day = 0.8 man day.
- 2 child-days is equivalent to one-man day; implying 1 child day = 0.5 man day.

A. Own Family Labor:

It implies the labor contribution on farm by own family members. It is the main source of farm labor in case of small and medium sized farms. For estimating such costs, family labor has been valued as paid type of labor. Labor taken on exchange basis is also included in family labor.

B. Hired Labor:

Hired labor is the non-family labor employed for farm work as payment on wages in cash, kind or both. Normal breakfast has also been included in this cost.

5.3.2 Bullock Labor:

Bullock labor inputs are measured in terms of bullock a day, which means use of a pair of bullock for eight hours. Bullock services costs have been calculated at the current district market rate per pair of bullock per day. The cost incurred for ploughman is separately included in the human labor.

5.3.3 Manures and Fertilizers:

Manures and fertilizers are measured in physical as well as value terms. Marketing of manure is not usual in most of the rural areas of Nepal. As substantial amount of labor is involved in preparation of manure, a minimum cost is assigned. While taking an account of the fertilizers, urea, di-ammonium phosphate (DAP) and murate of potash (potash) are commonly available in the market and applied in the farms. The cost of fertilizers has been calculated on the basis of actual price paid by the farmers.

5.3.4 Irrigation:

Irrigation charge or cost incurred while hiring pump-set has been taken as actual amount paid. The labor involvement in irrigating field is accounted in human labor.

5.3.5 Seed:

Purchased seeds have been charged at market price. Utilization of own farm produced seeds has been evaluated at the local price during the sowing season.

5.3.6 Other Material Inputs:

Material inputs such as pesticides and insecticides have been taken at actual price paid.

5.3.7 Management Cost:

Management cost is incurred by the farmer as its one of the factor of production system and it differs with spatial and temporal. Thus it has been calculated as per the practice being reported by the farmers for the seasonal crops and in case of the annual crops calculated annually. The spatial distribution has been stated as for the Terai regions, Highhills/Midhills, adjoining districts like Nuwakot, Kavrepalanchok and Dhadhing and Valleys like Kathmandu, Bhaktapur and Lalitpur as follows:

Terai :	Rs 3000 per Hectare per Crop per Season
Midhills/Highhills:	Rs 1500 per Hectare per Crop per Season
Adjoining Valleys:	Rs 2000 per Hectare per Crop per Season
Valley:	Rs 30000 per Hectare per Crop per Season

5.3.8 Land Lease:

Land is one of the prime factors of production and leasing or acquiring the land on rent for the agriculture land is in practice in major parts of the country and it differs spatial and temporal. However the leasing is done for at least 5 years to 10 years going up to 20 years. The cost incurred by the farmers to get the land for the production had been reported as per the vogue thus it has been calculated as per the practice being reported by the farmers for the seasonal crops and for annual crops calculated annually that has been reported below as stated in management cost.

Terai	: Rs 13500 per Hectare @ Rs 150/Month/Kattha per Season
Midhills/Highhills	: Rs 9000 per Hectare @ 150/Month/Ropani per Season
Adjoining Valleys	: Rs 15000 per Hectare @ 250/Month/Ropani per Season
Valley	: Rs 30000 per Hectare @ 500/Month/Ropani per Season

5.3.9 Interest on Working Capital:

Interest on the working capital, charged as cash expenses incurred are calculated as 12 percent per annum and thus calculated for a particular crop for the months it covers the arable land and it is incurred in the conditions such as:

- a. Hired human and bullock labor
- b. Hired tractor and pump-set
- c. Other taxes
- d. Expenses incurred on material inputs such as seeds, chemicals, fertilizers, manures, insecticides and pesticides.

5.4. Fixed Cost:

Fixed costs are those that do not vary with size of enterprise and have limited bearing upon decisions to increase or decrease production. It includes land revenue, water tax, maintenance and depreciation costs on tools and implements.

5.4.1 Land Tax:

Agricultural land is classified into upland and lowland. The land survey has divided each type of land into 4 categories namely, Abbal, Doyam, Sim and Chahar. The land tax has been taken as actual tax paid by the farmers.

5.4.2 Other Tax:

It includes water tax, local tax and other governmental taxes if any levied in some special areas for specific unique purpose.

5.4.3 Depreciation:

Depreciation cost is calculated on the basis of purchase value and serviceable life of an asset. The serviceable life of an asset is ascertained from farmer's experience. The formula for calculating annual depreciation cost is as follows:

Depreciation Cost = (Purchase value – Scrap value)/ Serviceable lifetime of the farm asset.

For those small agricultural tools and implements, which last around a year scrap, value is not taken into account since they are negligible.

Farm families have agricultural tools and these are used virtually for all most all crops. Depreciation charge for each crop is calculated by the following formulae:

Depreciation cost per crop = (Area under a crop X Annual depreciation cost)/ Total cropped area

5.4.4 Repairs and Maintenance:

Farmers in rural areas pay a fixed amount of their main produce to local blacksmiths who provide regular services of repair and maintaining services of agricultural tools and implements. An annual repairing and maintenance cost is calculated by using the following formula:

Repair and maintenance = $\frac{\text{Area under particular crop} \times \text{Grain quantity paid}}{\text{Total Cropped Area}} \times \text{Price per unit}$

However, payment made by the farmer for the year round repair and maintenance is proportioned as per the crop duration and the area of cultivation.

5.5 Gross Income:

It is the value of the total crop produce (output) including main and by-product evaluated at farm gate price.

5.6 Output Input Ratio:

This is the ratio of the value of output including by-product and the total cost of production on per hectare basis.

5.7 Gross Profit at Farm Gate:

It is the difference between the gross incomes to the total cost considering the product price at farm gate.

5.8 Net Profit:

It is the value of the product in the market deducing the marketing and total cost with the value of by product if available as per the kind of the commodity.

5.9 Benefit Cost Ratio:

This is the ratio of value of output including by product & total cost of production on farm gate price.

$$\text{B/C Ratio} = \frac{\text{Gross income}}{\text{Total Cost}}$$

5.10 Value at Market:

It is the price of the total marketed volume at the respective near most market where farmers sell their product at wholesale price. Some criterion is adopted for calculating the value at market considering the same district's or the relevant near most wholesale market price by deducing post harvest and handling loss in total quantity of main product. The deduction percent from the farm gate to the market in loss calculation as per the farmers' perspective is 5 percent in mushroom, 12 percent on pulses, oil, Chilli crops, and 15 percent in cardamom. Similarly in catechu as 20 percent along with in onion, garlic, ginger, turmeric 25 percent and of handling cost per kilogram of the goods handled depending upon the crop.

The losses incurred during the transportation and handling of the commodity has been calculated ranging from five to twenty five percent as per the nature and perishable nature of the commodity and twelve to fifty percent per kilogram as per the commodity for the transportation and handling. The value at market is determined by the market price prevailed in the relevant near most wholesale market for the each crop taken an account for the study and not the actual prevailing reported market prices rather the price that farmer would get in hand. And finally the value at market is the total volume of product deducing the handling loss and

transportation costs multiplied by the value of the produce that the farmer would achieve not the wholesale price reported in the near most wholesale market of the concerned districts. The market may be of the same district or of the neighboring district or even the distant market like Kathmandu.

6. Major Findings of the Study:

The study of the Cost of Production and Profit Margin has provided information on costs, income, profit margin and benefit cost ratio of major Pulses, Oil, Spices and Commercial Crops. The study covered 72 districts representing the major ecological belts like Terai, Middhills and Highhills as per the relevance. The study was focused on yield, total costs, value of main product at farm gate and near most wholesale market price, gross income, and gross profit at farm gate, net profit per hectare and benefit cost ratio. The district and commodity wise average price and costs has also been considered which may assist the planners, researchers, entrepreneurs, extension workers, farmers and other concerned stake holders for making further decisions. The brief on summary data has been given as follows. Please, see the Annexes for further details.

6.1 Pulses:

There are plenty of legume crops that is regarded as pulses. Some crops are consumed fresh can be considered as the vegetable and the dried form is regarded as pulses. There were numerous number of pulses that is cultivated far and wide in all ecological belts. The study couldn't cover all the legumes however the coverage is 6 crops in 23 districts. The crops under this study are namely lentil, pigeon pea, blackgram, kidney bean, snow pea and cowpea. The entire product in the study is taken as pulses in dried form.

6.1.1 Lentil:

Lentil is one of the popular autumn crops and grown in plenty rice fields and it helps to increase cropping intensity, soil fertility and helps farmers to raise income levels. The study covered lentil in 5 districts with improved lentil 3 Terai districts and local lentil in 2 Hill districts.

The yield, total cost, value of main product at farm gate and market, gross income at farm gate, cost per quintal, net profit at the farm and market levels and the benefit cost ratio of improved Lentil in Terai districts are presented in the table no 1 below:

Table 1 Yield, Return, Cost and Net Profit of Improved Mainseason Lentil of Some Districts:

Districts	Yield	Total Cost	Value of Main Product		Gross Income	Cost	Net Profits		Benefit Cost Ratio
			Farmgate	Market			Farmgate	Market	
	Kg/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Qtl	Rs/Ha	Rs/Ha	
Banke	1625.0	73860.0	110825.0	113465.6	112410.0	4545.2	38550.0	40995.6	1.52
Dang	1810.0	69807.0	117197.5	120794.9	119061.5	3856.7	49254.5	52634.7	1.71
Morang	1945.0	74267.4	128370.0	131190.3	130260.0	3818.4	55992.6	58579.5	1.75
Average	1793.3	72644.8	118797.5	121816.9	120577.2	4073.4	47932.4	50736.6	1.66

Similarly, the yield, total cost, value of main product at farm gate and market, gross income at farm gate, cost per quintal, net profit at the farm and market levels and the benefit cost ratio of local Lentil in Hill districts is also presented in the table no 2 below:

Table 2 Yield, Return, Cost and Net Profit of Local Mainseason Lentil of Some Districts:

Districts	Yield	Total Cost	Value of Main Product		Gross Income	Cost	Net Profit		Benefit Cost Ratio
			Farmgate	Market			Farmgate	Market	
	Kg/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Qtl	Rs/Ha	Rs/Ha	
Rasuwa	1955.0	83863.8	146625.0	148580.0	148445.0	4289.7	64581.2	66301.6	1.77
Sindhupalchok	1905.0	76384.8	140970.0	144780.0	142772.0	4009.7	66387.2	69968.6	1.87
Average	1930.0	80124.3	143797.5	146680.0	145608.5	4149.7	65484.2	68135.1	1.82

6.1.2 Pigeon Pea:

Pigeon Pea is one of the popular autumn crops and cultivated in fields. This crop helps to increase cropping intensity and helps farmers to raise income levels. The study covered Pigeon Pea in 4 districts with improved 4 Terai districts.

The yield, total cost, value of main product at farm gate and market, gross income at farm gate, cost per quintal, net profit at the farm and market levels and the benefit cost ratio of improved Pigeon in Terai is presented in the table no 3 below:

Table 3 Yield, Return, Cost and Net Profit of Improved Mainseason Pigeon Pea of Some Districts:

Districts	Yield	Total Cost	Value of Main Product		Gross Income	Cost	Net Profit		Benefit Cost Ratio
			Farmgate	Market			Farmgate	Market	
	Kg/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Qtl	Rs/Ha	Rs/Ha	
Banke	1450.0	73919.3	113100.0	126730.0	114800.0	5097.9	40880.7	54336.7	1.55
Siraha	1475.0	72347.0	118000.0	133118.8	120156.3	4904.9	47809.3	62751.0	1.66
Chitwan	1290.0	70683.2	104490.0	115197.0	106483.8	5479.3	35800.6	46352.8	1.51
Mahottari	1410.0	66659.0	107160.0	117876.0	109260.0	4727.6	42601.0	53147.8	1.64
Average	1406.3	70902.1	110687.5	123230.4	112675.0	5052.4	41772.9	54147.1	1.59

6.1.3 Blackgram:

Among legume crops, blackgram is popular in hill districts. The study has covered improved Blackgram in 3 hill districts.

The yield, total cost, value of main product at farm gate and market, gross income at farm gate, cost per quintal, net profit at the farm and market levels and the benefit cost ratio of improved Blackgram in some Mid Hill Districts is presented in the table no 4 below:

Table 4 Yield, Return, Cost and Net Profit of Improved Mainseason Blackgram of Some Districts:

Districts	Yield	Total Cost	Value of Main Product		Gross Income	Cost	Net Profit		Benefit Cost Ratio
			Farmgate	Market			Farmgate	Market	
	Kg/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Qtl	Rs/Ha	Rs/Ha	
Gorkha	1460.0	69418.2	109500.0	110960.0	109500.0	4754.7	40081.8	41366.60	1.58
Dadeldhura	1380.0	61688.6	106260.0	107502.0	106260.0	4470.2	44571.4	45647.80	1.72
Taplejung	1410.0	65612.0	105750.0	107160.0	105750.0	4653.3	40138.0	41378.80	1.61
Average	1416.7	65572.9	107170.0	108540.7	107170.0	4626.1	41597.1	42797.73	1.64

6.1.4 Kidney Beans:

Among the Legume crops, Kidney Bean is also cultivated far and wide. The study has covered 4 districts with an account of 2 Terai districts and 2 Hill districts in improved crop.

The yield, total cost, value of main product at farm gate and market, gross income at farm gate, cost per quintal, net profit at the farm and market levels and the benefit cost ratio of improved Kidney Beans in Terai and Hill Districts is presented in the table no 5 below:

Table 5 Yield, Return, Cost and Net Profit of Improved Mainseason Kidney Bean of Some Districts:

Districts	Yield	Total Cost	Value of Main Product		Gross Income	Cost	Net Profit		Benefit Cost Ratio
			Farmgate	Market			Farmgate	Market	
	Kg/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Qtl	Rs/Ha	Rs/Ha	
Chitwan	1755.0	94839.8	157950.0	158388.8	157950.0	5404.0	63110.2	63338.4	1.67
Kapilwastu	1710.0	82134.6	148770.0	151078.5	148770.0	4803.2	66635.4	68738.7	1.81
Baglung	1655.0	73446.1	137365.0	139930.3	137365.0	4437.8	63918.9	66285.5	1.87
Sindhuli	1694.0	75002.8	138908.0	141618.4	138908.0	4427.6	63905.2	66412.3	1.85
Average	1703.5	81355.8	145748.3	147754.0	145748.3	4768.1	64392.4	66193.7	1.80

6.1.5 Snow Peas:

Among the Legume crops, Snow Pea is also cultivated far and wide. It has covered 4 districts with an account of 3 Terai districts and 1 Hill district in improved crop.

The yield, total cost, value of main product at farm gate and market, gross income at farm gate, cost per quintal, net profit at the farm and market levels and the benefit cost ratio of improved Snow Pea in Terai and Hill Districts is presented in the table no 6 below:

Table 6 Yield, Return, Cost and Net Profit of Improved Mainseason Snow Pea of Some Districts:

Districts	Yield	Total Cost	Value of Main Product		Gross Income	Cost	Net Profit		Benefit Cost Ratio
			Farmgate	Market			Farmgate	Market	
	Kg/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Qtl	Rs/Ha	Rs/Ha	
Dhandhing	5822.0	138539.2	326032.0	331854.0	326032.0	2379.6	187492.8	192616.2	2.35
Siraha	5168.0	124761.7	284240.0	284756.8	284240.0	2414.1	159478.3	159374.9	2.28
Mahottari	5463.0	133159.2	303196.5	302308.8	303196.5	2437.5	170037.3	168494.0	2.28
Kapilwastu	4985.0	118747.8	275172.0	279172.5	275172.0	2382.1	156424.2	159826.5	2.32
Average	5359.5	128802.0	297160.1	299523.0	297160.1	2403.3	168358.2	170077.9	2.31

6.1.6 Cowpea:

Among the Legume crops, Cowpea is also cultivated far and wide. It has covered 4 districts with an account of 3 Hill districts and 1 Terai district in improved crop.

The yield, total cost, value of main product at farm gate and market, gross income at farm gate, cost per quintal, net profit at the farm and market levels and the benefit cost ratio of improved Cowpea in Terai and Hill Districts is presented in the table no 7 below:

Table 7 Yield, Return, Cost and Net Profit of Improved Mainseason Cowpea of Some Districts:

Districts	Yield	Total Cost	Value of Main Product		Gross Income	Cost	Net Profit		Benefit Cost Ratio
			Farmgate	Market			Farmgate	Market	
	Kg/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Qtl	Rs/Ha	Rs/Ha	
Arghakhachi	4386.0	116163.0	242326.5	245210.3	242326.5	2648.5	126163.5	128521.0	2.09
Rautahat	5843.0	125903.0	322533.6	333051.0	322533.6	2154.8	196630.6	206446.8	2.56
Nawalparasi	5865.0	124671.6	324041.3	279172.5	324041.3	2125.7	199369.7	208929.6	2.60
Bajura	4295.0	113891.6	244815.0	240734.8	244815.0	2651.7	130923.4	126327.8	2.15
Average	5097.3	120157.3	283429.1	274542.1	283429.1	2395.2	163271.8	167556.3	2.35

6.2 Oilseed Crops:

There are numerous oilseed crops cultivated in the country. However, only three crops ie. Mustard, Yellow Mustard and Sesame are accounted under the study as it has high area coverage and production rather than other oilseed crops. It is quantified in dried form before the processing in the study and regarded as yield. Altogether 12 districts are covered under the oilseed crops.

6.2.1 Mustard:

Mustard is one of the most popular crop as per its production and productivity amongst all the oilseed crops. It is cultivated far and wide in special and temporal. The survey was carried out in 6 districts covering 4 Terai districts with improved and irrigated conditions taking an account of the main season crop and 2 Hill Districts with improved and un-irrigated which is presented in the table No 8 below.

Table 8 Yield, Return, Cost and Net Profit of Improved Mainseason Mustard of Some Districts:

Districts	Yield	Total Cost	Value of Main Product		Gross Income	Cost	Net Profit		Benefit Cost Ratio
			Farmgate	Market			Farmgate	Market	
	Kg/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Qtl	Rs/Ha	Rs/Ha	
Syangja	856.0	54324.2	81320.0	81320.0	81320.0	6346.3	26995.8	26893.1	1.50
Rupandehi	990.0	64288.2	95040.0	95931.0	95040.0	6493.8	30751.8	31524.0	1.48
Chitwan	1085.0	69311.6	104160.0	107198.0	104160.0	6388.2	34848.4	37756.2	1.50
Bara	1015.0	64693.8	97440.0	97485.7	97440.0	6373.8	32746.2	32670.1	1.51
Pyuthan	825.0	48436.9	77550.0	76807.5	77550.0	5871.1	29113.1	28271.6	1.60
Sunsari	945.0	61572.2	92610.0	94263.8	92610.0	6515.6	31037.8	32578.2	1.50
Average	952.7	60437.8	91353.3	92167.7	91353.3	6331.5	30915.5	31615.5	1.51

6.2.2 Yellow Mustard:

Yellow Mustard is second most popular crop as per its production and productivity amongst all the oilseed crops. It is cultivated far and wide in Terai districts. The survey was carried out in 5 Terai districts with improved varieties taking an account of the main season crop.

The yield, total cost, value of main product at farm gate, gross income at farm gate, cost per quintal, net profit at the farm levels and the benefit cost ratio of Yellow Mustard in some Terai Districts is presented in the table no 9 below:

Table 9 Yield, Return, Cost and Net Profit of Improved Mainseason Yellow Mustard of Some Districts:

Districts	Yield	Total Cost	Value of Main Product		Gross Income	Cost	Net Profit		Benefit Cost Ratio
			Farmgate	Market			Farmgate	Market	
	Kg/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Qtl	Rs/Ha	Rs/Ha	
Chitwan	955.0	54212.0	85950.0	86188.8	85950.0	5676.6	31738.0	31862.2	1.59
Parsa	935.0	49851.6	82280.0	82607.3	82280.0	5331.7	32428.4	32643.5	1.65
Dang	910.0	48220.6	80990.0	81263.0	80990.0	5299.0	32769.4	32933.2	1.68
Kanchanpur	905.0	48520.2	81450.0	81676.3	81450.0	5361.3	32929.8	33047.5	1.68
Morang	922.0	50027.6	82980.0	83210.5	82980.0	5426.0	32952.4	33072.3	1.66
Average	925.4	50166.4	82730.0	82989.2	82730.0	5418.9	32563.6	32711.7	1.65

6.2.3 Sesame:

Sesame is another popular oilseed crop as per its production that is cultivated in dry and marginal lands amongst all the oilseed crop. It is cultivated far and wide

in Terai districts. The survey was carried out in 3 Terai districts with improved varieties taking an account of the main season crop.

The yield, total cost, value of main product at farm gate, gross income at farm gate, cost per quintal, net profit at the farm levels and the benefit cost ratio of Sesame in some Terai Districts is presented in the table no 10 below:

Table 10 Yield, Return, Cost and Net Profit of Improved Mainseason Sesame of Some Districts:

Districts	Yield Kg/Ha	Total Cost Rs/Ha	Value of Main Product		Gross Income Rs/Ha	Cost Rs/Qtl	Net Profit		Benefit Cost Ratio
			Farmgate	Market			Farmgate	Market	
			Rs/Ha	Rs/Ha			Rs/Ha	Rs/Ha	
Bara	980.0	40354.2	142100.0	144305.0	142100.0	4117.8	101745.8	103833.2	3.52
Kapilwastu	960.0	36473.4	139200.0	141360.0	139200.0	3799.3	102726.6	104771.4	3.82
Siraha	970.0	39259.4	140650.0	142832.5	140650.0	4047.4	101390.6	103456.7	3.58
Average	970.0	38695.7	140650.0	142832.5	140650.0	3988.1	101954.3	104020.4	3.64

6.3 Spice Crops:

Despite of the fact, there are plenty of Spice crops that are grown commercially all over the nation, it was impossible to cover up all the crops for the study. Some of the spice crops like onion and garlic are also consumed as vegetables. However, a modest attempt had been made to cover up Spice crops such as chilli, onion, garlic, ginger, turmeric and cardamom. Chilli, onion and garlic are seasonal crops however ginger; turmeric annual and cardamom are perennial crops. The cultivation practice and its production system differ some yielding only main products and some with byproduct as well. Altogether 23 districts have been covered up in different conditions like main season, off season, tunnel, winter and summer crops and so on.

6.3.1 Chilli:

Chilli is one of the main spice crop. It is marketed fresh and in dried forms. It is cultivated in larger areas of land along with small patches in accordance to the need. The larger cultivation is done for the commercial purposes and study has accounted such larger pockets and the yield has been considered in dried form. The survey was carried out in 2 Terai and 3 Hill districts with improved varieties taking an account of the main season crop.

The yield, total cost, value of main product at farm gate, gross income at farm gate, cost per quintal, net profit at the farm levels and the benefit cost ratio of Main

Season Chilli in some Terai and Hill Districts is presented in the table no 11 below:

Table 11 Yield, Return, Cost and Net Profit of Improved Mainseason Chilli of Some Districts:

Districts	Yield Kg/Ha	Total Cost Rs/Ha	Value of Main Product		Gross Income Rs/Ha	Cost Rs/Qtl	Net Profit		Benefit Cost Ratio
			Farmgate	Market			Farmgate	Market	
			Rs/Ha	Rs/Ha			Rs/Ha	Rs/Ha	
Kailali	2164.0	168890.0	404668.0	402936.8	404668.0	7804.5	235778.0	233787.1	2.40
Sunsari	2210.0	159473.0	408850.0	409402.5	408850.0	7216.0	249377.0	249664.3	2.56
Nuwakot	1785.0	129973.5	348075.0	339150.0	348075.0	7281.4	218101.5	208962.3	2.68
Sindhupalchok	1665.0	124826.5	333000.0	347985.0	333000.0	7497.1	208173.5	222958.7	2.67
Arghakhachi	1826.0	125347.7	350592.0	340001.2	350592.0	6864.6	225244.3	214434.4	2.80
Average	1930.0	141702.1	369037.0	367895.1	369037.0	7332.7	227334.9	225961.4	2.62

6.3.2 Onion:

Onion is also one of the main spices however is considered as vegetable crop as well. It is marketed fresh in green leafy and in dried bulbous forms. It is cultivated in larger areas of land along with small patches in accordance to the need of the farmers. The larger cultivation is done for the commercial purposes and study has accounted such larger pockets and the yield has been considered in dried bulbous form. The survey was carried out in 3 Terai and 1 Hill district with improved varieties taking an account of the main season crop.

The yield, total cost, value of main product at farm gate, gross income at farm gate, cost per quintal, net profit at the farm levels and the benefit cost ratio of Main Season Onion in some Terai and Hill District is presented in the table no 12 below:

Table 12 Yield, Return, Cost and Net Profit of Improved Mainseason Onion of Some Districts:

Districts	Yield Kg/Ha	Total Cost Rs/Ha	Value of Main Product		Gross Income Rs/Ha	Cost Rs/Qtl	Net Profit		Benefit Cost Ratio
			Farmgate	Market			Farmgate	Market	
			Rs/Ha	Rs/Ha			Rs/Ha	Rs/Ha	
Parsa	13820.0	124523.8	307495.0	334789.5	314405.0	851.0	189881.2	213720.7	2.52
Dang	12655.0	116371.8	277144.5	297550.7	282837.0	874.6	166465.2	183707.6	2.43
Saptari	12755.0	121912.6	283798.8	304143.0	289217.5	913.3	167304.9	184460.4	2.37
Sindhuli	13110.0	121516.8	308085.0	323817.0	313329.0	886.9	191812.2	204266.7	2.58
Average	13085.0	121081.3	294130.8	315075.0	299947.1	881.5	178865.9	196538.9	2.48

6.3.3 Garlic:

Garlic is one of the popular spices with strong aromatic and medicinal values however are considered as vegetable crop as well. It is marketed fresh in green leafy and in dried bulbous forms. It is cultivated in larger areas of land along with small patches in accordance to the need of the farmers. The larger cultivation is done for the commercial purposes and study has accounted such larger pockets and the yield has been considered in dried bulbous form. The survey was carried out in 3 Hill and 2 Terai districts with improved varieties taking an account of the main season crop.

The yield, total cost, value of main product at farm gate, gross income at farm gate, cost per quintal, net profit at the farm levels and the benefit cost ratio of Main Season Garlic in some Terai and Hill Districts is presented in the table no 13 below:

Table 13 Yield, Return, Cost and Net Profit of Improved Mainseason Garlic of Some Districts:

Districts	Yield Kg/Ha	Total Cost Rs/Ha	Value of Main Product		Gross Income Rs/Ha	Cost Rs/Qtl	Net Profit		Benefit Cost Ratio
			Farmgate	Market			Farmgate	Market	
			Rs/Ha	Rs/Ha			Rs/Ha	Rs/Ha	
Dadeldhura	6180.0	324351.8	519120.0	516648.0	522170.0	5199.1	197818.2	193801.2	1.61
Lalitpur	6355.0	374417.0	597370.0	603725.0	600545.0	5841.7	226128.0	230894.3	1.60
Surkhet	6220.0	324490.2	573484.0	569332.2	576456.0	5169.1	251965.8	246259.0	1.78
Rautahat	6985.0	285677.2	504317.0	505975.9	505713.0	4069.9	220035.8	219948.5	1.77
Nawalparsi	6980.0	280186.8	506050.0	508929.3	507446.0	3994.1	227259.2	228393.5	1.81
Average	6544.0	317824.6	540068.2	540922.1	542466.0	4854.8	224641.4	223859.3	1.71

6.3.4 Ginger:

Ginger is one of the popular spice that imparts high flavor and has medicinal values. It's rhizomes are marketed fresh and dried forms. It is also cultivated in larger areas of land along with small patches in accordance to the need of the farmers. The larger cultivation is done for the commercial purposes and study has accounted such larger pockets and the yield has been considered in fresh forms. It is one of the most important crop that is been exported from Nepal in high quantities. The yield of the crop can be harvested in three phases with fresh, bruni and seed purposes. The market price varies as per the product. The crop stands for almost 8 to 9 months in the field thus the survey was carried out in 4 Hill districts with improved varieties

taking an account of the main season crop and the variable costs has been accounted for 9 months rather than tanking an account of the seasonal crops for 3 months.

The yield, total cost, value of main product at farm gate, gross income at farm gate, cost per quintal, net profit at the farm levels and the benefit cost ratio of Main Season Ginger in some Hill Districts is presented in the table no 14 below:

Table 14 Yield, Return, Cost and Net Profit of Improved Mainseason Ginger of Some Districts:

Districts	Yield	Total Cost	Value of Main Product		Gross Income	Cost	Net Profit		Benefit Cost Ratio
			Farmgate	Market			Farmgate	Market	
	Kg/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Qtl	Rs/Ha	Rs/Ha	
Makwanpur	23060.0	736695.2	1224190.0	1971630.0	1224190.0	3194.7	487494.8	1229169.8	1.66
Salyan	23190.0	821154.6	1373340.0	2092897.5	1373340.0	3541.0	552185.4	1265945.4	1.67
Dhankuta	23168.0	718662.0	1220802.0	1980864.0	1220802.0	3102.0	502140.0	1256410.0	1.70
Syangja	23130.0	722327.4	1208560.0	1977615.0	1208560.0	3122.9	486232.6	1249505.1	1.67
Average	23137.0	749709.8	1256723.0	2005751.6	1256723.0	3240.1	507013.2	1250257.6	1.68

6.3.5 Turmeric:

Ginger is one of the popular spices that imparts high color and has medicinal values. Its rhizomes are marketed fresh and dried forms. It is cultivated in larger areas of land along with small patches in accordance to the need of the farmers. The larger cultivation is done for the commercial purposes and study has accounted such larger pockets and the yield has been considered in dried forms. The market price varies as per the product color, size and weight. The crop stands for almost 8 to 9 months in the field thus the survey was carried out in 4 Hill districts with improved varieties taking an account of the main season crop and the variable costs has been accounted for 9 months rather than tanking an account of the seasonal crops for 3 months.

The yield, total cost, value of main product at farm gate, gross income at farm gate, cost per quintal, net profit at the farm levels and the benefit cost ratio of Main Season Turmeric in some Hill Districts is presented in the table no 15 below:

Table 15 Yield, Return, Cost and Net Profit of Improved Mainseason Turmeric of Some Districts:

Districts	Yield	Total Cost	Value of Main Product		Gross Income	Cost	Net Profit		Benefit Cost Ratio
			Farmgate	Market			Farmgate	Market	
	Kg/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Qtl	Rs/Ha	Rs/Ha	
Rukum	14950.0	198985.5	328900.0	347961.3	328900.0	1331.0	129914.5	145238.3	1.65
Gorkha	15450.0	194807.3	386250.0	396292.5	386250.0	1260.9	191442.7	197622.7	1.98
Okahldhunga	16155.0	207261.3	371565.0	391354.9	371565.0	1283.0	164303.7	180054.8	1.79
Dadeldhura	15950.0	194549.7	406725.0	416693.8	406725.0	1219.7	212175.4	218156.6	2.09
Average	15626.3	198900.9	373360.0	388075.6	373360.0	1273.6	174459.1	185268.1	1.88

6.3.6 Cardamom:

Cardamom is also the popular spice crops in mid and high hills. The area and production of the crop is rising as it gives more benefits in the marginal lands. It is one of the crops that is exported in high quantities in Middle East countries and yields high returns as compared to the investments, however the waiting cost has to be considered as well. Its fruits are marketed fresh and dried forms. For the dried form, the fruit is cured by using the smoke kilns. It is cultivated in larger areas of land along with small patches in accordance with spatial and temporal. The larger cultivation is done for the commercial purposes and study has accounted such larger pockets and the yield has been considered in dried forms. The market price varies as per the product color, size, stickiness of the fruit and weight. The survey was carried out in 2 Hill districts with improved varieties taking an account of the main season crop and the variable costs has been accounted annually rather than tanking an account of the seasonal crops for 3 months. The cost has been segregated in 3 clusters. The first cluster is establishment year till 3rd year, the other cluster is 4th to 5th year where the productivity is low and the last cluster is 6th to 10th year where the crop yields the highest production. The crop can be harvested for 20 years however the study has only taken account till 10th year.

The yield, total cost, value of main product at farm gate, gross income at farm gate, cost per quintal, net profit at the farm levels and the benefit cost ratio of Main Season Cardamom in some Hill Districts is presented in the table no 16 below:

Table 16 Yield, Return, Cost and Net Profit of Improved Mainseason Cardamom of Some Districts after 5 Years:

Districts	Yield	Total Cost	Value of Main Product		Gross Income	Cost	Net Profit		Benefit Cost Ratio
			Farmgate	Market			Farmgate	Market	
	Kg/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Qtl	Rs/Ha	Rs/Ha	
Illam	638.0	241333.4	1621158.0	1509220.9	1621158.0	37826.6	1379824.6	1267810.9	6.72
Dhankuta	650.0	239857.3	1651650.0	1537607.5	1651650.0	36901.1	1411792.7	1297672.2	6.89
Average	644.0	240595.3	1636404.0	1523414.2	1636404.0	37363.8	1395808.7	1282741.6	6.80

6.4. Commercial Crops

6.4.1. Tea:

Tea is one of the popular drinks in South Asia. It is mainly grown in eastern part of the country however getting popular in high laying hill areas of the other parts of the county. The area and production of the crop is rising as it gives more benefits in the marginal lands. It is one of the crop that is exported in high quantities in other countries. It is the perennial tree however trimmed in shrub size making it more sprouts in the leafy forms. The tea leaves are plucked from the Falgun till Bhadra and processed in the factories and marketed in dried forms in various forms like CTC, Orthodox, Green, etc. The larger cultivation is done for the commercial purposes and study has accounted such larger pockets and the yield has been considered in dried forms. The market price varies as per the product quality of the leaves and processing. The survey was carried out in 2 Hill districts with improved varieties taking an account of the main season crop and the variable costs has been accounted annually rather than taking an account of the seasonal crops for 3 months. The Ilam was selected for the Orthodox and Sindhupalchok was selected for Organic Green Tea. Both of the districts depicts different scenarios as the produce are different along with the investment costs and returns, however the average has been summed up in the summery below but it doesn't depict the average cost and returns. The cost has been segregated in 4 clusters. The first cluster is establishment year, other cluster is 3rd year where the production starts, another cluster is 4th to 5th year where the productivity is low and the last cluster is 6th to 15th year where the crop yields the highest production wise. The crop can be harvested for more than 30 years however the study has only taken account till 15th year.

The yield, total cost, value of main product at farm gate, gross income at farm gate, cost per quintal, net profit at the farm levels and the benefit cost ratio of Tea in some

Hill Districts is presented in the table no 17 below:

Table 17 Average Yield, Return, Cost and Net Profit of Improved Orthodox and CTC Tea Plantation of Some Districts after 6 Years:

Districts	Yield	Total Cost	Value of Main Product		Gross Income	Cost	Net Profit		Benefit Cost Ratio
			Farmgate	Market			Farmgate	Market	
	Kg/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Qtl	Rs/Ha	Rs/Ha	
Sindhupalchok	13800.0	151279.8	478170.0		478170.0	10.0	326890.2		3.16
Illam	14040.0	169193.2	445945.5		445945.5	11.1	276752.3		2.64
Average	13920.0	160236.5	462057.8	0.0	462057.8	10.5	301821.2	0.0	2.90

6.4.2. Coffee:

Coffee is one of the popular drinks in western world. It is grown in mid hill throughout the country and its area coverage is being bigger year by year. The area and production of the crop is rising as it gives more benefits in the marginal lands. It is one of the crops that are exported in high quantities in other countries. It is the perennial tree that yields cherries that are processed and dried. The cherries are plucked in the summer and processed in the factories and marketed in dried forms. The larger cultivation is done for the commercial purposes and study has accounted such larger pockets and the yield has been considered in fresh forms. The market price varies as per the product quality of the cherries and its sizes. The survey was carried out in 2 Hill districts with improved varieties taking an account of the main season crop and the variable costs has been accounted annually rather than taking an account of the seasonal crops for 3 months. Palpa was selected for the inorganic category and Gulmi was selected for Organic. Both of the districts depicts different scenarios as the produce are different along with the investment costs and returns, however the average has been summed up in the summery below but it doesn't depict the average cost and returns. The cost has been segregated in 4 clusters. The first cluster is establishment year, other cluster is 2nd to 3rd year where the production starts, another cluster is 4th to 5th year where the productivity is low and the last cluster is 6th to 10th year where the crop yields the highest production wise. The crop can be harvested for more than 30 years however the study has only taken account till 10th year.

The yield, total cost, value of main product at farm gate, gross income at farm gate, cost per quintal, net profit at the farm levels and the benefit cost ratio of Coffee in some Hill Districts is presented in the table no 18 below:

Table 18 Average Yield, Return, Cost and Net Profit of Improved Organic and Inorganic Coffee of Some Districts after 6 Years:

Districts	Yield	Total Cost	Value of Main Product	Gross Income	Cost	Net Profit	Benefit Cost Ratio
			Farmgate			Farmgate	
	Kg/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Qtl	Rs/Ha	
Palpa	3290.0	136960.2	239396.9	239396.9	40.6	102436.7	1.75
Gulmi	3245.0	133233.0	255799.3	255799.3	40.1	122566.3	1.92
Average	3267.5	135096.6	247598.1	247598.1	40.3	112501.5	1.83

6.4.3. Bettle Nut:

Bettle Nut (Catechu) is one of the popular product and commercially grown in eastern Terai districts of Nepal. The area and production of the crop is rising as it gives more benefits in the marginal lands. It is one of the crops that are exported in high quantities in other countries. It is the perennial tree yields fruits that are processed and dried. The fruits are plucked and processed in the factories and marketed in dried forms. The larger cultivation is done for the commercial purposes and study has accounted such larger pockets and the yield has been considered in fresh forms. The market price varies as per the product quality of the fruits and its sizes. The survey was carried out in only one Terai district with improved varieties taking an account of the main season crop and the variable costs has been accounted annually rather than tanking an account of the seasonal crop for 3 months. The Jhapa was selected for the crop due to its remarkable area coverage and production

The cost has been segregated in 4 clusters. The first cluster is establishment year, other cluster is 2nd to 3rd year where the production starts, another cluster is 4th to 5th year where the productivity is low and the last cluster is 6th to 10th year where the crop yields the highest. The crop can be harvested for more than 20 years however the study has only taken account till 10th year.

The yield, total cost, value of main product at farm gate, gross income at farm gate, cost per quintal, net profit at the farm levels and the benefit cost ratio of Catechu in Jhapa district is presented in the table no 19 below:

Table 19 Average Yield, Return, Cost and Net Profit of Improved Bettle Nut of Districts after 6 Years:

Districts	Yield	Total Cost	Value of Main Product		Gross Income	Cost	Net Profit		Benefit Cost Ratio
			Farmgate	Market			Farmgate	Market	
	Kg/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Ha	Rs/Qtl	Rs/Ha	Rs/Ha	
Jhapa	10500.0	117773.7	280145.3	573024.4	280145.3	33.1	162371.6	450000.7	2.38
Average	10500.0	117773.7	280145.3	573024.4	280145.3	33.1	162371.6	450000.7	2.38

6.4.4. Mushroom:

There are numerous types of mushroom cultivated throughout the country. It is cultivated in controlled environment in sheds. The cultivation practice of the each fungus differs widely as well with the large disparities in cost of cultivation and returns from the crop. It was impossible to cover up all type of Mushrooms that has been cultivated and that can be found in farmers fields. The survey has considered only 2 type of Mushrooms ie. Agaricus (Gobre) and Pleurotus/Leninus (Kanya) is described below.

6.4.4.1. Agaricus (Gobre)

Agaricus (Gobre) mushroom is one of the popular fungi that is cultivated in the organic soil and compost bed. The medium is prepared in the controlled plastic sheds and is very popular amongst the farmers. The price of this cultivar is higher as compared to the later one. The study has taken account of the 3 hill districts and the standard size of the plastic shed has been considered as 20ft X 40 ft. As per the survey 3 tunnels can be considered in a Ropani ie. 500 sq meters of land and the cost, return has only been calculated as per the tunnel or shed.

The yield, total cost, value of main product at farm gate, gross income at farm gate, cost per quintal, net profit at the farm levels and the benefit cost ratio of Agaricus (Gobre) mushroom in 3 Hill districts is presented in the table no 20 below:

Table 20 Average Yield, Return, Cost and Net Profit of Agaricus (Gobre) Mushroom of Some Districts:

Districts	Yield	Total Cost	Value of Main Product		Gross Income	Cost	Net Profit		Benefit Cost Ratio
			Farmgate	Market			Farmgate	Market	
	Kg/Shed	Rs/Shed	Rs/Shed	Rs/Shed	Rs/Shed	Rs/Qtl	Rs/Shed	Rs/Shed	
Kathmandu	325.0	51044.0	74750.0	80275.0	75270.0	15705.8	24226.0	29588.5	1.47
Lalitpur	320.0	48270.0	73600.0	79040.0	74072.5	15084.4	25802.5	31082.5	1.53
Kavrepalanchok	328.0	40661.0	70520.0	76342.0	70940.0	12396.6	30279.0	35937.0	1.74
Average	324.3	46658.3	72956.7	78552.3	73427.5	14395.6	26769.2	32202.7	1.58

6.4.4.2. Pleurotus/Leninus (Kanya)

Pleurotus/Leninus (Kanya) mushroom is one of the popular fungus that is cultivated in the organic balls of the paddy and wheat straws. The medium is prepared in the controlled plastic sheds and is very popular amongst the farmers. The price of this cultivar is slightly lower however the productivity is higher as compared to the former one. The study has taken account of the 3 hill districts and the standard size of the plastic shed has been considered as 12ft X 20 ft. As per the survey 4 tunnels can be considered in a Ropani ie. 500 sq meters of land and the costs returns has only been calculated as per the tunnel or shed.

The yield, total cost, value of main product at farm gate, gross income at farm gate, cost per quintal, net profit at the farm levels and the benefit cost ratio of Pleurotus/Leninus (Kanya) mushroom in 3 Hill is presented in the table no 21 below:

Table 21 Average Yield, Return, Cost and Net Profit of Pleurotus & Leninus (Kanya) Mushroom of Some Districts:

Districts	Yield	Total Cost	Value of Main Product		Gross Income	Cost	Net Profit		Benefit Cost Ratio
			Farmgate	Market			Farmgate	Market	
	Kg/Shed	Rs/Shed	Rs/Shed	Rs/Shed	Rs/Shed	Rs/Qtl	Rs/Shed	Rs/Shed	
Kathmandu	680.0	26830.2	61200.0	71060.0	61200.0	3945.6	34369.8	45184.8	2.28
Lalitpur	670.0	23781.3	60300.0	70015.0	60300.0	3549.4	36518.7	46993.7	2.54
Kavrepalanchok	665.0	20808.3	56525.0	63175.0	56525.0	3129.1	35716.7	43099.2	2.72
Average	671.7	23806.6	59341.7	68083.3	59341.7	3541.4	35535.1	45092.6	2.51

7. Recommendations:

The major findings of the study have initiated to forward some points as recommendation mainly with the view of profit maximization and lowering the cost of cultivation with sustainable agricultural sector through respective crop directorates and marketing directorates under the Department of Agriculture and other stakeholders of agriculture extension.

- Decrease production costs by using appropriate farm machineries & tools.
- Enhance human labor capacity by trainings to improve working efficiency.
- Adopt better crop production planning focusing production factors.
- Use market price information so as to manage broader marketing opportunities.
- Increase the use of high yielding varieties so as to improve agriculture product quality and volume.
- Increase the scale of production so as to increase the profit levels at nominal costs.
- Keep records of Production and Costs to compare the profit margins.
- Need to enhance the core competency of different layers of agriculture extension workers (extension, plant protection, horticulture, spices, oilseed crops, market facilitation, etc.)
- Train and interlink the farmer, extension workers & entrepreneur to upgrade their skill & knowledge.

B. APPENDICES

Pulse Crops

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Rasuwa

Crop: Lentil
Variety: Kalo Musuro (Local)
Sowing Time: Magh/Falgun

Year: 2014/2015
Condition : Unirrigated/Main Season
Harvesting Time: Jestha/Asad

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
<u>A. AVERAGE PRODUCTION COST</u>				
<u>1. Variable Cost</u>	<u>Rs.</u>			83584.80
a. Human Labor	Days	92	425.00	39100.00
b. Bullock Labor	Days	10	750.00	7500.00
c. Power Tiller Use	Hours	0	0.00	0.00
d. Pumpset Use	Hours	0	0.00	0.00
e. Sprayer Use	Hours	0	0.00	0.00
f. Seed	Kg.	80	140.00	11200.00
g. Manure	Kg.	9800	1.00	9800.00
h. Fertilizer				
Urea	Kg.	45	25.00	1125.00
D.A.P	Kg.	25	52.00	625.00
Potash	Kg.	10	37.00	520.00
i. Plant Protection Chemicals	Rs.			0.00
j. Management Cost	Rs.			1500.00
k. Land Lease	Rs.			9000.00
l. Interest on Variable Cost	Rs.			3214.80
<u>2. Fixed Cost</u>	<u>Rs.</u>			279.00
a. Land Tax	Rs.			49.00
b. Water Tax	Rs.			
c. Repair and Maintenance	Rs.			102.00
d. Depreciation	Rs.			128.00
<u>3. Total Cost</u>	<u>Rs.</u>			83863.80
<u>4. Gross Income at Farm Gate</u>	<u>Rs.</u>			148445.00
a. Main Product	Kg.	1955	75.00	146625.00
b. By-Product	Kg.	1820	1.00	1820.00
<u>5. Net Profit at Farm Gate</u>	<u>Rs.</u>			64581.20
<u>6. Production Cost Per Quintal</u>	<u>Rs.</u>			4289.71
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
<u>a. Marketing Cost</u>	<u>Rs.</u>			234.60
<u>b. Value at Market</u>	<u>Kg.</u>	1857.25	80.00	148580.00
<u>c. Net Profit</u>	<u>Rs.</u>			66301.60

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Sindhupalchok

Crop: Lentil
Variety: Kalo Musuro (Local)
Sowing Time: Magh/Falgun

Year: 2014/2015
Condition : Unrigated/Main Season
Harvesting Time: Jestha/Asad

Particulars	Units	Quantity	Rs/Unit	Total
<u>A. AVERAGE PRODUCTION COST</u>				
<u>1. Variable Cost</u>	<u>Rs.</u>			76147.76
a. Human Labor	Days	95	375.00	35625.00
b. Bullock Labor	Days	8	600.00	4800.00
c. Power Tiller Use	Hours	0	0.00	0.00
d. Pumpset Use	Hours	0	0.00	0.00
e. Sprayer Use	Hours	0	0.00	0.00
f. Seed	Kg.	78	145.00	11310.00
g. Manure	Kg.	8764	1.00	8764.00
h. Fertilizer				
Urea	Kg.	42	25.00	1050.00
D.A.P	Kg.	26	52.00	650.00
Potash	Kg.	10	37.00	520.00
i. Plant Protection Chemicals	Rs.			0.00
j. Management Cost	Rs.			1500.00
k. Land Lease	Rs.			9000.00
l. Interest on Variable Cost	Rs.			2928.76
<u>2. Fixed Cost</u>	<u>Rs.</u>			237.00
a. Land Tax	Rs.			55.00
b. Water Tax	Rs.			0.00
c. Repair and Maintenance	Rs.			89.00
d. Depreciation	Rs.			93.00
<u>3. Total Cost</u>	<u>Rs.</u>			76384.76
<u>4. Gross Income at Farm Gate</u>	<u>Rs.</u>			142772.00
a. Main Product	Kg.	1905	74.00	140970.00
b. By-Product	Kg.	1802	1.00	1802.00
<u>5. Net Profit at Farm Gate</u>	<u>Rs.</u>			66387.24
<u>6. Production Cost Per Quintal</u>	<u>Rs.</u>			4009.70
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
<u>a. Marketing Cost</u>	<u>Rs.</u>			228.60
<u>b. Value at Market</u>	<u>Kg.</u>	1809.75	80.00	144780.00
<u>c. Net Profit</u>	<u>Rs.</u>			69968.64

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Banke

Crop: Lentil
Variety: Khajura Masuro - 2
Sowing Time: Kartik/Mangsir

Year: 2014/2015
Condition : Unrigated/Main Season
Harvesting Time: Magh/Falgun

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
<u>A. AVERAGE PRODUCTION COST</u>				
<u>1. Variable Cost</u>	<u>Rs.</u>			73580.00
a. Human Labor	Days	62	425.00	26350.00
b. Bullock Labor	Days	5	675.00	3375.00
c. Tractor Use	Hours	6	900.00	5400.00
d. Pumpset Use	Hours	2	250.00	500.00
e. Sprayer Use	Hours	6	20.00	120.00
f. Seed	Kg.	55	100.00	5500.00
g. Manure	Kg.	8255	1.00	8255.00
h. Fertilizer				
Urea	Kg.	20	25.00	500.00
D.A.P	Kg.	65	50.00	1625.00
Potash	Kg.	30	36.00	1500.00
i. Plant Protection Chemicals	Rs.			1125.00
j. Management Cost	Rs.			3000.00
k. Land Lease	Rs.			13500.00
l. Interest on Variable Cost	Rs.			2830.00
<u>2. Fixed Cost</u>	<u>Rs.</u>			280.00
a. Land Tax	Rs.			60.00
b. Water Tax	Rs.			20.00
c. Repair and Maintenance	Rs.			92.00
d. Depreciation	Rs.			108.00
<u>3. Total Cost</u>	<u>Rs.</u>			73860.00
<u>4. Gross Income at Farm Gate</u>	<u>Rs.</u>			112410.00
a. Main Product	Kg.	1625	68.20	110825.00
b. By-Product	Kg.	1585	1.00	1585.00
<u>5. Net Profit at Farm Gate</u>	<u>Rs.</u>			38550.00
<u>6. Production Cost Per Quintal</u>	<u>Rs.</u>			4545.23
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
<u>a. Marketing Cost</u>	<u>Rs.</u>			195.00
<u>b. Value at Market</u>	<u>Kg.</u>	1543.75	73.50	113465.63
<u>c. Net Profit</u>	<u>Rs.</u>			40995.63

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Dang

Crop: Lentil
Variety: Shikhar
Sowing Time: Kartik/Mangsir

Year: 2014/2015
Condition : Unrigated/Main Season
Harvesting Time: Magh/Falgun

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
<u>A. AVERAGE PRODUCTION COST</u>				
<u>1. Variable Cost</u>	<u>Rs.</u>			69524.00
a. Human Labor	Days	64	375.00	24000.00
b. Bullock Labor	Days	5	650.00	3250.00
c. Tractor Use	Hours	5	850.00	4250.00
d. Pumpset Use	Hours	4	225.00	900.00
e. Sprayer Use	Hours	5	20.00	100.00
f. Seed	Kg.	56	95.00	5320.00
g. Manure	Kg.	8380	1.00	8380.00
h. Fertilizer				
Urea	Kg.	15	24.00	360.00
D.A.P	Kg.	60	50.00	1440.00
Potash	Kg.	25	36.00	1250.00
i. Plant Protection Chemicals	Rs.			1100.00
j. Management Cost	Rs.			3000.00
k. Land Lease	Rs.			13500.00
l. Interest on Variable Cost	Rs.			2674.00
<u>2. Fixed Cost</u>	<u>Rs.</u>			283.00
a. Land Tax	Rs.			55.00
b. Water Tax	Rs.			25.00
c. Repair and Maintenance	Rs.			98.00
d. Depreciation	Rs.			105.00
<u>3. Total Cost</u>	<u>Rs.</u>			69807.00
<u>4. Gross Income at Farm Gate</u>	<u>Rs.</u>			119061.50
a. Main Product	Kg.	1810	64.75	117197.50
b. By-Product	Kg.	1864	1.00	1864.00
<u>5. Net Profit at Farm Gate</u>	<u>Rs.</u>			49254.50
<u>6. Production Cost Per Quintal</u>	<u>Rs.</u>			3856.74
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
<u>a. Marketing Cost</u>	<u>Rs.</u>			217.20
<u>b. Value at Market</u>	<u>Kg.</u>	1719.5	70.25	120794.88
<u>c. Net Profit</u>	<u>Rs.</u>			52634.68

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Morang

Crop: Lentil
Variety: Simal
Sowing Time: Kartik/Mangsir

Year: 2014/2015
Condition : Unrrigated/Main Season
Harvesting Time: Magh/Falgun

Particulars	Units	Quantity	Rs/Unit	Total
<u>A. AVERAGE PRODUCTION COST</u>				
<u>1. Variable Cost</u>	<u>Rs.</u>			73980.40
a. Human Labor	Days	60	400.00	24000.00
b. Bullock Labor	Days	2	725.00	1450.00
c. Tractor Use	Hours	7	925.00	6475.00
d. Pumpset Use	Hours	4	200.00	800.00
e. Sprayer Use	Hours	5	20.00	100.00
f. Seed	Kg.	54	100.00	5400.00
g. Manure	Kg.	8290	1.50	12435.00
h. Fertilizer				
Urea	Kg.	15	23.00	345.00
D.A.P	Kg.	60	50.00	1380.00
Potash	Kg.	25	35.00	1250.00
i. Plant Protection Chemicals	Rs.			1000.00
j. Management Cost	Rs.			3000.00
k. Land Lease	Rs.			13500.00
l. Interest on Variable Cost	Rs.			2845.40
<u>2. Fixed Cost</u>	<u>Rs.</u>			287.00
a. Land Tax	Rs.			54.00
b. Water Tax	Rs.			25.00
c. Repair and Maintenance	Rs.			98.00
d. Depreciation	Rs.			110.00
<u>3. Total Cost</u>	<u>Rs.</u>			74267.40
<u>4. Gross Income at Farm Gate</u>	<u>Rs.</u>			130260.00
a. Main Product	Kg.	1945	66.00	128370.00
b. By-Product	Kg.	1890	1.00	1890.00
<u>5. Net Profit at Farm Gate</u>	<u>Rs.</u>			55992.60
<u>6. Production Cost Per Quintal</u>	<u>Rs.</u>			3818.38
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
<u>a. Marketing Cost</u>	<u>Rs.</u>			233.40
<u>b. Value at Market</u>	<u>Kg.</u>	1847.75	71.00	131190.25
<u>c. Net Profit</u>	<u>Rs.</u>			58579.45

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Banke

Crop: Pigeon Pea

Year: 2014/2015

Variety: Bageshowari

Condition : Unirrigated/Main Season

Sowing Time: Sharawan/Bhadra

Harvesting Time: Poush/Magh

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			73639.28
a. Human Labor	Days	70	425.00	29750.00
b. Bullock Labor	Days	0	0.00	0.00
c. Tractor Use	Hours	7	900.00	6300.00
d. Pumpset Use	Hours	10	250.00	2500.00
e. Sprayer Use	Hours	6	20.00	120.00
f. Seed	Kg.	16	122.00	1952.00
g. Manure	Kg.	8860	1.00	8860.00
h. Fertilizer				
Urea	Kg.	35	25.00	875.00
D.A.P	Kg.	70	50.00	1750.00
Potash	Kg.	25	36.00	1250.00
i. Plant Protection Chemicals	Rs.			950.00
j. Management Cost	Rs.			3000.00
k. Land Lease	Rs.			13500.00
l. Interest on Variable Cost	Rs.			2832.28
2. Fixed Cost	Rs.			280.00
a. Land Tax	Rs.			60.00
b. Water Tax	Rs.			20.00
c. Repair and Maintenance	Rs.			92.00
d. Depreciation	Rs.			108.00
3. Total Cost	Rs.			73919.28
4. Gross Income at Farm Gate	Rs.			114800.00
a. Main Product	Kg.	1450	78.00	113100.00
b. By-Product	Kg.	1700	1.00	1700.00
5. Net Profit at Farm Gate	Rs.			40880.72
6. Production Cost Per Quintal	Rs.			5097.88
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			174.00
b. Value at Market	Kg.	1377.5	92.00	126730.00
c. Net Profit	Rs.			54336.72

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Siraha

Crop: Pigeon Pea

Year: 2014/2015

Variety: Bageshowari

Condition : Unriggated/Main Season

Sowing Time: Sharawan/Bhadra

Harvesting Time: Poush/Magh

Particulars	Units	Quantity	Rs/Unit	Total
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			72046.00
a. Human Labor	Days	72	375.00	27000.00
b. Bullock Labor	Days	0	0.00	0.00
c. Tractor Use	Hours	6	900.00	5400.00
d. Pumpset Use	Hours	8	250.00	2000.00
e. Sprayer Use	Hours	5	20.00	100.00
f. Seed	Kg.	15	125.00	1875.00
g. Manure	Kg.	9220	1.25	11525.00
h. Fertilizer				
Urea	Kg.	40	25.00	1000.00
D.A.P	Kg.	75	50.00	1875.00
Potash	Kg.	20	35.00	1000.00
i. Plant Protection Chemicals	Rs.			1000.00
j. Management Cost	Rs.			3000.00
k. Land Lease	Rs.			13500.00
l. Interest on Variable Cost	Rs.			2771.00
2. Fixed Cost	Rs.			301.00
a. Land Tax	Rs.			52.00
b. Water Tax	Rs.			40.00
c. Repair and Maintenance	Rs.			97.00
d. Depreciation	Rs.			112.00
3. Total Cost	Rs.			72347.00
4. Gross Income at Farm Gate	Rs.			120156.25
a. Main Product	Kg.	1475	80.00	118000.00
b. By-Product	Kg.	1725	1.25	2156.25
5. Net Profit at Farm Gate	Rs.			47809.25
6. Production Cost Per Quintal	Rs.			4904.88
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			177.00
b. Value at Market	Kg.	1401.25	95.00	133118.75
c. Net Profit	Rs.			62751.00

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Chitwan

Crop: Pigeon Pea

Year: 2014/2015

Variety: Rampur-1

Condition : Unirrigated/Main Season

Sowing Time: Sharawan/Bhadra

Harvesting Time: Poush/Magh

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			70400.20
a. Human Labor	Days	86	450.00	38700.00
b. Bullock Labor	Days	0	0.00	0.00
c. Tractor Use	Hours	0	0.00	0.00
d. Pumpset Use	Hours	10	200.00	2000.00
e. Sprayer Use	Hours	5	20.00	100.00
f. Seed	Kg.	12	125.00	1500.00
g. Manure	Kg.	5255	1.50	7882.50
h. Fertilizer				
Urea	Kg.	0	0.00	0.00
D.A.P	Kg.	25	51.00	0.00
Potash	Kg.	10	38.00	510.00
i. Plant Protection Chemicals	Rs.			500.00
j. Management Cost	Rs.			3000.00
k. Land Lease	Rs.			13500.00
l. Interest on Variable Cost	Rs.			2707.70
2. Fixed Cost	Rs.			283.00
a. Land Tax	Rs.			58.00
b. Water Tax	Rs.			25.00
c. Repair and Maintenance	Rs.			95.00
d. Depreciation	Rs.			105.00
3. Total Cost	Rs.			70683.20
4. Gross Income at Farm Gate	Rs.			106483.75
a. Main Product	Kg.	1290	81.00	104490.00
b. By-Product	Kg.	1595	1.25	1993.75
5. Net Profit at Farm Gate	Rs.			35800.55
6. Production Cost Per Quintal	Rs.			5479.32
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			154.80
b. Value at Market	Kg.	1225.5	94.00	115197.00
c. Net Profit	Rs.			46352.75

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Mahottari

Crop: Pigeon Pea

Year: 2014/2015

Variety: Bageshowari

Condition : Unirrigated/Main Season

Sowing Time: Sharawan/Bhadra

Harvesting Time: Poush/Magh

Particulars	Units	Quantity	Rs/Unit	Total
<u>A. AVERAGE PRODUCTION COST</u>				
<u>1. Variable Cost</u>	<u>Rs.</u>			66391.00
a. Human Labor	Days	88	375.00	33000.00
b. Bullock Labor	Days	0	0.00	0.00
c. Tractor Use	Hours	0	0.00	0.00
d. Pumpset Use	Hours	9	200.00	1800.00
e. Sprayer Use	Hours	4	20.00	80.00
f. Seed	Kg.	15	120.00	1800.00
g. Manure	Kg.	6255	1.50	9382.50
h. Fertilizer				
Urea	Kg.	0	23.00	0.00
D.A.P	Kg.	25	50.00	575.00
Potash	Kg.	5	35.00	250.00
i. Plant Protection Chemicals	Rs.			450.00
j. Management Cost	Rs.			3000.00
k. Land Lease	Rs.			13500.00
l. Interest on Variable Cost	Rs.			2553.50
<u>2. Fixed Cost</u>	<u>Rs.</u>			268.00
a. Land Tax	Rs.			56.00
b. Water Tax	Rs.			25.00
c. Repair and Maintenance	Rs.			92.00
d. Depreciation	Rs.			95.00
<u>3. Total Cost</u>	<u>Rs.</u>			66659.00
<u>4. Gross Income at Farm Gate</u>	<u>Rs.</u>			109260.00
a. Main Product	Kg.	1410	76.00	107160.00
b. By-Product	Kg.	1680	1.25	2100.00
<u>5. Net Profit at Farm Gate</u>	<u>Rs.</u>			42601.00
<u>6. Production Cost Per Quintal</u>	<u>Rs.</u>			4727.59
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
<u>a. Marketing Cost</u>	<u>Rs.</u>			169.20
<u>b. Value at Market</u>	<u>Kg.</u>	1339.5	88.00	117876.00
<u>c. Net Profit</u>	<u>Rs.</u>			53147.80

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Gorkha

Crop: Blackgram

Year: 2014/2015

Variety: Kalu

Condition : Unirrigated/Main Season

Sowing Time: Ashad/Shrawan

Harvesting Time: Bhadra/Aswin

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			69191.20
a. Human Labor	Days	110	375.00	41250.00
b. Bullock Labor	Days	10	700.00	7000.00
c. Power Tiller Use	Hours	0	0.00	0.00
d. Pumpset Use	Hours	0	0.00	0.00
e. Sprayer Use	Hours	0	0.00	0.00
f. Seed	Kg.	38	60.00	2280.00
g. Manure	Kg.	5250	1.00	5250.00
h. Fertilizer				
Urea	Kg.	0	0.00	0.00
D.A.P	Kg.	0	0.00	0.00
Potash	Kg.	0	0.00	0.00
i. Plant Protection Chemicals	Rs.			250.00
j. Management Cost	Rs.			1500.00
k. Land Lease	Rs.			9000.00
l. Interest on Variable Cost	Rs.			2661.20
2. Fixed Cost	Rs.			227.00
a. Land Tax	Rs.			42.00
b. Water Tax	Rs.			
c. Repair and Maintenance	Rs.			90.00
d. Depreciation	Rs.			95.00
3. Total Cost	Rs.			69418.20
4. Gross Income at Farm Gate	Rs.			109500.00
a. Main Product	Kg.	1460	75.00	109500.00
5. Net Profit at Farm Gate	Rs.			40081.80
6. Production Cost Per Quintal	Rs.			4754.67
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			175.20
b. Value at Market	Kg.	1387	80.00	110960.00
c. Net Profit	Rs.			41366.60

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Dadeldhura

Crop: Blackgram

Year: 2014/2015

Variety: Kalo Fusre

Condition : Unirrigated/Main Season

Sowing Time: Ashad/Shrawan

Harvesting Time: Bhadra/Aswin

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			61453.60
a. Human Labor	Days	98	345.00	33810.00
b. Bullock Labor	Days	6	580.00	3480.00
c. Power Tiller Use	Hours	6	550.00	3300.00
d. Pumpset Use	Hours	0	0.00	0.00
e. Sprayer Use	Hours	0	0.00	0.00
f. Seed	Kg.	40	65.00	2600.00
g. Manure	Kg.	5220	1.00	5220.00
h. Fertilizer				
Urea	Kg.	0	0.00	0.00
D.A.P	Kg.	0	0.00	0.00
Potash	Kg.	0	0.00	0.00
i. Plant Protection Chemicals	Rs.			180.00
j. Management Cost	Rs.			1500.00
k. Land Lease	Rs.			9000.00
l. Interest on Variable Cost	Rs.			2363.60
2. Fixed Cost	Rs.			235.00
a. Land Tax	Rs.			53.00
b. Water Tax	Rs.			
c. Repair and Maintenance	Rs.			87.00
d. Depreciation	Rs.			95.00
3. Total Cost	Rs.			61688.60
4. Gross Income at Farm Gate	Rs.			106260.00
a. Main Product	Kg.	1380	77.00	106260.00
5. Net Profit at Farm Gate	Rs.			44571.40
6. Production Cost Per Quintal	Rs.			4470.19
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			165.60
b. Value at Market	Kg.	1311	82.00	107502.00
c. Net Profit	Rs.			45647.80

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Taplejung

Crop: Blackgram

Year: 2014/2015

Variety: Kalu

Condition : Unirrigated/Main Season

Sowing Time: Ashad/Shrawan

Harvesting Time: Bhadra/Aswin

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
<u>A. AVERAGE PRODUCTION COST</u>				
<u>1. Variable Cost</u>	<u>Rs.</u>			65390.00
a. Human Labor	Days	108	375.00	40500.00
b. Bullock Labor	Days	4	650.00	2600.00
c. Power Tiller Use	Hours	0	0.00	0.00
d. Pumpset Use	Hours	0	0.00	0.00
e. Sprayer Use	Hours	0	0.00	0.00
f. Seed	Kg.	40	65.00	2600.00
g. Manure	Kg.	5220	1.25	6525.00
h. Fertilizer				
Urea	Kg.	0	0.00	0.00
D.A.P	Kg.	0	0.00	0.00
Potash	Kg.	0	0.00	0.00
i. Plant Protection Chemicals	Rs.			150.00
j. Management Cost	Rs.			1500.00
k. Land Lease	Rs.			9000.00
l. Interest on Variable Cost	Rs.			2515.00
<u>2. Fixed Cost</u>	<u>Rs.</u>			222.00
a. Land Tax	Rs.			42.00
b. Water Tax	Rs.			
c. Repair and Maintenance	Rs.			84.00
d. Depreciation	Rs.			96.00
<u>3. Total Cost</u>	<u>Rs.</u>			65612.00
<u>4. Gross Income at Farm Gate</u>	<u>Rs.</u>			105750.00
a. Main Product	Kg.	1410	75.00	105750.00
<u>5. Net Profit at Farm Gate</u>	<u>Rs.</u>			40138.00
<u>6. Production Cost Per Quintal</u>	<u>Rs.</u>			4653.33
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
<u>a. Marketing Cost</u>	<u>Rs.</u>			169.20
<u>b. Value at Market</u>	<u>Kg.</u>	1339.5	80.00	107160.00
<u>c. Net Profit</u>	<u>Rs.</u>			41378.80

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Chitwan

Crop: Kidney Bean

Year: 2014/2015

Variety: Hatedi

Condition : Irrigated/Main Season

Sowing Time: Magh/Falgun

Harvesting Time: Baishakh/Jestha

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			94556.80
a. Human Labor	Days	106	450.00	47700.00
b. Bullock Labor	Days	0	0.00	0.00
c. Tractor Use	Hours	4	900.00	3600.00
d. Pumpset Use	Hours	18	200.00	3600.00
e. Sprayer Use	Hours	10	20.00	200.00
f. Seed	Kg.	50	120.00	6000.00
g. Manure	Kg.	4850	1.50	7275.00
h. Fertilizer				
Urea	Kg.	55	25.00	1375.00
D.A.P	Kg.	80	51.00	2000.00
Potash	Kg.	20	38.00	1020.00
i. Plant Protection Chemicals	Rs.			1650.00
j. Management Cost	Rs.			3000.00
k. Land Lease	Rs.			13500.00
l. Interest on Variable Cost	Rs.			3636.80
2. Fixed Cost	Rs.			283.00
a. Land Tax	Rs.			58.00
b. Water Tax	Rs.			25.00
c. Repair and Maintenance	Rs.			95.00
d. Depreciation	Rs.			105.00
3. Total Cost	Rs.			94839.80
4. Gross Income at Farm Gate	Rs.			157950.00
a. Main Product	Kg.	1755	90.00	157950.00
5. Net Profit at Farm Gate	Rs.			63110.20
6. Production Cost Per Quintal	Rs.			5403.98
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			210.60
b. Value at Market	Kg.	1667.25	95.00	158388.75
c. Net Profit	Rs.			63338.35

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Kapilwastu

Crop: Kidney Bean

Year: 2014/2015

Variety: Kaleji

Condition : Irrigated/Main Season

Sowing Time: Magh/Falgun

Harvesting Time: Baishakh/Jestha

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
<u>A. AVERAGE PRODUCTION COST</u>				
<u>1. Variable Cost</u>	<u>Rs.</u>			81863.60
a. Human Labor	Days	102	375.00	38250.00
b. Bullock Labor	Days	5	0.00	0.00
c. Tractor Use	Hours	5	850.00	4250.00
d. Pumpset Use	Hours	15	215.00	3225.00
e. Sprayer Use	Hours	8	20.00	160.00
f. Seed	Kg.	50	115.00	5750.00
g. Manure	Kg.	5255	1.00	5255.00
h. Fertilizer				
Urea	Kg.	50	25.00	1250.00
D.A.P	Kg.	75	50.00	1875.00
Potash	Kg.	15	35.00	750.00
i. Plant Protection Chemicals	Rs.			1450.00
j. Management Cost	Rs.			3000.00
k. Land Lease	Rs.			13500.00
l. Interest on Variable Cost	Rs.			3148.60
<u>2. Fixed Cost</u>	<u>Rs.</u>			271.00
a. Land Tax	Rs.			54.00
b. Water Tax	Rs.			25.00
c. Repair and Maintenance	Rs.			93.00
d. Depreciation	Rs.			99.00
<u>3. Total Cost</u>	<u>Rs.</u>			82134.60
<u>4. Gross Income at Farm Gate</u>	<u>Rs.</u>			148770.00
a. Main Product	Kg.	1710	87.00	148770.00
<u>5. Net Profit at Farm Gate</u>	<u>Rs.</u>			66635.40
<u>6. Production Cost Per Quintal</u>	<u>Rs.</u>			4803.19
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
<u>a. Marketing Cost</u>	<u>Rs.</u>			205.20
<u>b. Value at Market</u>	<u>Kg.</u>	1624.5	93.00	151078.50
<u>c. Net Profit</u>	<u>Rs.</u>			68738.70

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Baglung

Crop: Kidney Bean

Year: 2014/2015

Variety: Local

Condition : Irrigated/Main Season

Sowing Time: Falgun/Chaitra

Harvesting Time: Jestha/Ashad

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			73219.12
a. Human Labor	Days	122	350.00	42700.00
b. Bullock Labor	Days	10	675.00	6750.00
c. Power Tiller Use	Hours	0	0.00	0.00
d. Pumpset Use	Hours	0	0.00	0.00
e. Sprayer Use	Hours	0	0.00	0.00
f. Seed	Kg.	40	65.00	2600.00
g. Manure	Kg.	5823	1.00	5823.00
h. Fertilizer				
Urea	Kg.	0	0.00	0.00
D.A.P	Kg.	40	50.00	0.00
Potash	Kg.	15	36.00	750.00
i. Plant Protection Chemicals	Rs.			1280.00
j. Management Cost	Rs.			1500.00
k. Land Lease	Rs.			9000.00
l. Interest on Variable Cost	Rs.			2816.12
2. Fixed Cost	Rs.			227.00
a. Land Tax	Rs.			48.00
b. Water Tax	Rs.			
c. Repair and Maintenance	Rs.			82.00
d. Depreciation	Rs.			97.00
3. Total Cost	Rs.			73446.12
4. Gross Income at Farm Gate	Rs.			137365.00
a. Main Product	Kg.	1655	83.00	137365.00
5. Net Profit at Farm Gate	Rs.			63918.88
6. Production Cost Per Quintal	Rs.			4437.83
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			198.60
b. Value at Market	Kg.	1572.25	89.00	139930.25
c. Net Profit	Rs.			66285.53

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Sindhuli

Crop: Kidney Bean

Year: 2014/2015

Variety: Local

Condition : Irrigated/Main Season

Sowing Time: Falgun/Chaitra

Harvesting Time: Jestha/Ashad

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
<u>A. AVERAGE PRODUCTION COST</u>				
<u>1. Variable Cost</u>	<u>Rs.</u>			74744.80
a. Human Labor	Days	106	410.00	43460.00
b. Bullock Labor	Days	5	800.00	4000.00
c. Power Tiller Use	Hours	5	550.00	2750.00
d. Pumpset Use	Hours	0	0.00	0.00
e. Sprayer Use	Hours	0	0.00	0.00
f. Seed	Kg.	39	65.00	2535.00
g. Manure	Kg.	5160	1.00	5160.00
h. Fertilizer				
Urea	Kg.	20	25.00	500.00
D.A.P	Kg.	40	51.00	1000.00
Potash	Kg.	15	36.00	765.00
i. Plant Protection Chemicals	Rs.			1200.00
j. Management Cost	Rs.			1500.00
k. Land Lease	Rs.			9000.00
l. Interest on Variable Cost	Rs.			2874.80
<u>2. Fixed Cost</u>	<u>Rs.</u>			258.00
a. Land Tax	Rs.			46.00
b. Water Tax	Rs.			
c. Repair and Maintenance	Rs.			96.00
d. Depreciation	Rs.			116.00
<u>3. Total Cost</u>	<u>Rs.</u>			75002.80
<u>4. Gross Income at Farm Gate</u>	<u>Rs.</u>			138908.00
a. Main Product	Kg.	1694	82.00	138908.00
<u>5. Net Profit at Farm Gate</u>	<u>Rs.</u>			63905.20
<u>6. Production Cost Per Quintal</u>	<u>Rs.</u>			4427.56
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
<u>a. Marketing Cost</u>	<u>Rs.</u>			203.28
<u>b. Value at Market</u>	<u>Kg.</u>	1609.3	88.00	141618.40
<u>c. Net Profit</u>	<u>Rs.</u>			66412.32

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Dhadhing

Crop: Snow Pea

Year: 2014/2015

Variety: Sikkim Green

Condition : Irrigated/Main Season

Sowing Time: Bhadra/Aswin

Harvesting Time: Mangsir/Poush

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
<u>A. AVERAGE PRODUCTION COST</u>				
<u>1. Variable Cost</u>	<u>Rs.</u>			138299.20
a. Human Labor	Days	228	375.00	85500.00
b. Bullock Labor	Days	7	675.00	4725.00
c. Power Tiller Use	Hours	8	550.00	4400.00
d. Pumpset Use	Hours	8	250.00	2000.00
e. Sprayer Use	Hours	9	20.00	180.00
f. Seed	Kg.	40	225.00	9000.00
g. Manure	Kg.	5280	1.25	6600.00
h. Fertilizer				
Urea	Kg.	15	25.00	375.00
D.A.P	Kg.	35	50.00	875.00
Potash	Kg.	20	36.00	1000.00
i. Plant Protection Chemicals	Rs.			1825.00
j. Management Cost	Rs.			1500.00
k. Land Lease	Rs.			15000.00
l. Interest on Variable Cost	Rs.			5319.20
<u>2. Fixed Cost</u>	<u>Rs.</u>			240.00
a. Land Tax	Rs.			48.00
b. Water Tax	Rs.			0.00
c. Repair and Maintenance	Rs.			94.00
d. Depreciation	Rs.			98.00
<u>3. Total Cost</u>	<u>Rs.</u>			138539.20
<u>4. Gross Income at Farm Gate</u>	<u>Rs.</u>			326032.00
a. Main Product	Kg.	5822	56.00	326032.00
<u>5. Net Profit at Farm Gate</u>	<u>Rs.</u>			187492.80
<u>6. Production Cost Per Quintal</u>	<u>Rs.</u>			2379.58
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
<u>a. Marketing Cost</u>	<u>Rs.</u>			698.64
<u>b. Value at Market</u>	<u>Kg.</u>	5530.9	60.00	331854.00
<u>c. Net Profit</u>	<u>Rs.</u>			192616.16

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Siraha

Crop: Snow Pea

Year: 2014/2015

Variety: New Line

Condition : Unirrigated/Main Season

Sowing Time: Aswin/Kartik

Harvesting Time: Poush/Magh

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			124460.70
a. Human Labor	Days	198	375.00	74250.00
b. Bullock Labor	Days	5	675.00	3375.00
c. Tractor Use	Hours	8	900.00	7200.00
d. Pumpset Use	Hours	5	250.00	1250.00
e. Sprayer Use	Hours	14	20.00	280.00
f. Seed	Kg.	42	150.00	6300.00
g. Manure	Kg.	5275	1.25	6593.75
h. Fertilizer				
Urea	Kg.	15	25.00	375.00
D.A.P	Kg.	40	50.00	1000.00
Potash	Kg.	15	35.00	750.00
i. Plant Protection Chemicals	Rs.			1800.00
j. Management Cost	Rs.			3000.00
k. Land Lease	Rs.			13500.00
l. Interest on Variable Cost	Rs.			4786.95
2. Fixed Cost	Rs.			301.00
a. Land Tax	Rs.			52.00
b. Water Tax	Rs.			40.00
c. Repair and Maintenance	Rs.			97.00
d. Depreciation	Rs.			112.00
3. Total Cost	Rs.			124761.70
4. Gross Income at Farm Gate	Rs.			284240.00
a. Main Product	Kg.	5168	55.00	284240.00
5. Net Profit at Farm Gate	Rs.			159478.30
6. Production Cost Per Quintal	Rs.			2414.12
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			620.16
b. Value at Market	Kg.	4909.6	58.00	284756.80
c. Net Profit	Rs.			159374.94

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Mahottari

Crop: Snow Pea

Year: 2014/2015

Variety: Sikkim Green

Condition : Unirrigated/Main Season

Sowing Time: Aswin/Kartik

Harvesting Time: Mangsir/Poush

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			132891.20
a. Human Labor	Days	212	375.00	79500.00
b. Bullock Labor	Days	5	650.00	3250.00
c. Tractor Use	Hours	7	900.00	6300.00
d. Pumpset Use	Hours	4	200.00	800.00
e. Sprayer Use	Hours	15	20.00	300.00
f. Seed	Kg.	41	225.00	9225.00
g. Manure	Kg.	5090	1.50	7635.00
h. Fertilizer				
Urea	Kg.	15	23.00	345.00
D.A.P	Kg.	45	50.00	1035.00
Potash	Kg.	20	35.00	1000.00
i. Plant Protection Chemicals	Rs.			1890.00
j. Management Cost	Rs.			3000.00
k. Land Lease	Rs.			13500.00
l. Interest on Variable Cost	Rs.			5111.20
2. Fixed Cost	Rs.			268.00
a. Land Tax	Rs.			56.00
b. Water Tax	Rs.			25.00
c. Repair and Maintenance	Rs.			92.00
d. Depreciation	Rs.			95.00
3. Total Cost	Rs.			133159.20
4. Gross Income at Farm Gate	Rs.			303196.50
a. Main Product	Kg.	5463	55.50	303196.50
5. Net Profit at Farm Gate	Rs.			170037.30
6. Production Cost Per Quintal	Rs.			2437.47
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			655.56
b. Value at Market	Kg.	5189.85	58.25	302308.76
c. Net Profit	Rs.			168494.00

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Kapilwastu

Crop: Snow Pea

Year: 2014/2015

Variety: Arkel

Condition : Unirrigated/Main Season

Sowing Time: Aswin/Kartik

Harvesting Time: Poush/Magh

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			118476.80
a. Human Labor	Days	192	375.00	72000.00
b. Bullock Labor	Days	6	650.00	3900.00
c. Tractor Use	Hours	6	850.00	5100.00
d. Pumpset Use	Hours	5	215.00	1075.00
e. Sprayer Use	Hours	10	20.00	200.00
f. Seed	Kg.	40	150.00	6000.00
g. Manure	Kg.	5145	1.00	5145.00
h. Fertilizer				
Urea	Kg.	15	25.00	375.00
D.A.P	Kg.	35	50.00	875.00
Potash	Kg.	20	35.00	1000.00
i. Plant Protection Chemicals	Rs.			1750.00
j. Management Cost	Rs.			3000.00
k. Land Lease	Rs.			13500.00
l. Interest on Variable Cost	Rs.			4556.80
2. Fixed Cost	Rs.			271.00
a. Land Tax	Rs.			54.00
b. Water Tax	Rs.			25.00
c. Repair and Maintenance	Rs.			93.00
d. Depreciation	Rs.			99.00
3. Total Cost	Rs.			118747.80
4. Gross Income at Farm Gate	Rs.			275172.00
a. Main Product	Kg.	4985	55.20	275172.00
5. Net Profit at Farm Gate	Rs.			156424.20
6. Production Cost Per Quintal	Rs.			2382.10
B. MARKETING AT NEAREST WHOLESale MARKET				
a. Marketing Cost	Rs.			598.20
b. Value at Market	Kg.	4735.75	58.95	279172.46
c. Net Profit	Rs.			159826.46

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Arghakhanchi

Crop: Cowpea
Variety: Khumal Tane
Sowing Time: Falgun

Year: 2014/2015
Condition : Unirrigated/Main Season
Harvesting Time: Baishakh/Jesth

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			115934.00
a. Human Labor	Days	174	375.00	65250.00
b. Bullock Labor	Days	8	600.00	4800.00
c. Power Tiller Use	Hours	2	550.00	1100.00
d. Pumpset Use	Hours	7	200.00	1400.00
e. Sprayer Use	Hours	13	20.00	260.00
f. Seed	Kg.	40	275.00	11000.00
g. Manure	Kg.	12655	1.00	12655.00
h. Fertilizer				
Urea	Kg.	15	25.00	375.00
D.A.P	Kg.	40	52.00	1000.00
Potash	Kg.	30	35.00	1560.00
i. Plant Protection Chemicals	Rs.			1575.00
j. Management Cost	Rs.			1500.00
k. Land Lease	Rs.			9000.00
l. Interest on Variable Cost	Rs.			4459.00
2. Fixed Cost	Rs.			229.00
a. Land Tax	Rs.			44.00
b. Water Tax	Rs.			0.00
c. Repair and Maintenance	Rs.			93.00
d. Depreciation	Rs.			92.00
3. Total Cost	Rs.			116163.00
4. Gross Income at Farm Gate	Rs.			242326.50
a. Main Product	Kg.	4386	55.25	242326.50
5. Net Profit at Farm Gate	Rs.			126163.50
6. Production Cost Per Quintal	Rs.			2648.50
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			526.32
b. Value at Market	Kg.	4166.7	58.85	245210.30
c. Net Profit	Rs.			128520.98

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Rautahat

Crop: Cowpea
Variety: Sarlahi Tane
Sowing Time: Aswin

Year: 2014/2015
Condition : Unirrigated/Main Season
Harvesting Time: Mangsir/Poush

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			125658.00
a. Human Labor	Days	165	390.00	64350.00
b. Bullock Labor	Days	4	660.00	2640.00
c. Tractor Use	Hours	7	900.00	6300.00
d. Pumpset Use	Hours	10	225.00	2250.00
e. Sprayer Use	Hours	16	20.00	320.00
f. Seed	Kg.	40	260.00	10400.00
g. Manure	Kg.	11152	1.25	13940.00
h. Fertilizer				
Urea	Kg.	15	24.00	360.00
D.A.P	Kg.	45	51.00	1080.00
Potash	Kg.	25	35.00	1275.00
i. Plant Protection Chemicals	Rs.			1410.00
j. Management Cost	Rs.			3000.00
k. Land Lease	Rs.			13500.00
l. Interest on Variable Cost	Rs.			4833.00
2. Fixed Cost	Rs.			245.00
a. Land Tax	Rs.			55.00
b. Water Tax	Rs.			0.00
c. Repair and Maintenance	Rs.			94.00
d. Depreciation	Rs.			96.00
3. Total Cost	Rs.			125903.00
4. Gross Income at Farm Gate	Rs.			322533.60
a. Main Product	Kg.	5843	55.20	322533.60
5. Net Profit at Farm Gate	Rs.			196630.60
6. Production Cost Per Quintal	Rs.			2154.77
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			701.16
b. Value at Market	Kg.	5550.85	60.00	333051.00
c. Net Profit	Rs.			206446.84

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Nawalparasi

Crop: Cowpea
Variety: Sarlahi Tane
Sowing Time: Aswin

Year: 2014/2015
Condition : Unirrigated/Main Season
Harvesting Time: Mangsir/Poush

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			124425.60
a. Human Labor	Days	169	375.00	63375.00
b. Bullock Labor	Days	5	625.00	3125.00
c. Tractor Use	Hours	7	875.00	6125.00
d. Pumpset Use	Hours	14	225.00	3150.00
e. Sprayer Use	Hours	15	20.00	300.00
f. Seed	Kg.	40	255.00	10200.00
g. Manure	Kg.	12645	1.00	12645.00
h. Fertilizer				
Urea	Kg.	15	25.00	375.00
D.A.P	Kg.	50	50.00	1250.00
Potash	Kg.	25	36.00	1250.00
i. Plant Protection Chemicals	Rs.			1345.00
j. Management Cost	Rs.			3000.00
k. Land Lease	Rs.			13500.00
l. Interest on Variable Cost	Rs.			4785.60
2. Fixed Cost	Rs.			246.00
a. Land Tax	Rs.			58.00
b. Water Tax	Rs.			
c. Repair and Maintenance	Rs.			92.00
d. Depreciation	Rs.			96.00
3. Total Cost	Rs.			124671.60
4. Gross Income at Farm Gate	Rs.			324041.25
a. Main Product	Kg.	5865	55.25	324041.25
5. Net Profit at Farm Gate	Rs.			199369.65
6. Production Cost Per Quintal	Rs.			2125.69
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			703.80
b. Value at Market	Kg.	5571.75	60.00	334305.00
c. Net Profit	Rs.			208929.60

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Bajura

Crop: Cowpea
Variety: Khumal Tane
Sowing Time: Falgun

Year: 2014/2015
Condition : Unirrigated/Main Season
Harvesting Time: Baishakh/Jesth

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			113661.60
a. Human Labor	Days	183	325.00	59475.00
b. Bullock Labor	Days	16	575.00	9200.00
c. Power Tiller Use	Hours	0	0.00	0.00
d. Pumpset Use	Hours	11	200.00	2200.00
e. Sprayer Use	Hours	15	22.00	330.00
f. Seed	Kg.	36	300.00	10800.00
g. Manure	Kg.	12745	1.00	12745.00
h. Fertilizer				
Urea	Kg.	15	25.00	375.00
D.A.P	Kg.	45	50.00	1125.00
Potash	Kg.	25	36.00	1250.00
i. Plant Protection Chemicals	Rs.			1290.00
j. Management Cost	Rs.			1500.00
k. Land Lease	Rs.			9000.00
l. Interest on Variable Cost	Rs.			4371.60
2. Fixed Cost	Rs.			230.00
a. Land Tax	Rs.			52.00
b. Water Tax	Rs.			
c. Repair and Maintenance	Rs.			86.00
d. Depreciation	Rs.			92.00
3. Total Cost	Rs.			113891.60
4. Gross Income at Farm Gate	Rs.			244815.00
a. Main Product	Kg.	4295	57.00	244815.00
5. Net Profit at Farm Gate	Rs.			130923.40
6. Production Cost Per Quintal	Rs.			2651.73
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			515.40
b. Value at Market	Kg.	4080.25	59.00	240734.75
c. Net Profit	Rs.			126327.75

Oilseed Crops

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE

DISTRICT: Syangja

Crop: Mustard

Year: 2014/2015

Variety: Lumle -1

Condition : Unirrigated/Main Season

Sowing Time: Bhadra/Aswin

Harvesting Time: Mangsir/Poush

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			54085.20
a. Human Labor	Days	40	450	18000.00
b. Bullock Labor	Days	10	700.00	7000.00
c. Power Tiller Use	Hours	2	550	1100.00
d. Pumpset Use	Hours	6	250	1500.00
e. Sprayer Use	Hours	8	20	160.00
f. Seed	Kg.	22	130	2860.00
g. Manure	Kg.	7655	1	7655.00
h. Fertilizer				
Urea	Kg.	60	24.00	1440.00
D.A.P	Kg.	20	51.00	480.00
Potash	Kg.	10	40.00	510.00
i. Plant Protection Chemicals	Rs.			800.00
j. Management Cost	Rs.			1500.0
k. Land Lease	Rs.			9000.0
l. Interest on Variable Cost	Rs.			2080.20
2. Fixed Cost	Rs.			239.00
a. Land Tax	Rs.			45.00
b. Water Tax	Rs.			0.00
c. Repair and Maintenance	Rs.			92.00
d. Depreciation	Rs.			102.00
3. Total Cost	Rs.			54324.20
4. Gross Income at Farm Gate	Rs.			81320.00
a. Main Product	Kg.	856	95.00	81320.00
5. Net Profit at Farm Gate	Rs.			26995.80
6. Production Cost Per Quintal	Rs.			6346.29
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			102.72
b. Value at Market	Kg.	813.2	100.00	81320.00
c. Net Profit	Rs.			26893.08

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Rupandhehi

Crop: Mustard
Variety : Pragati
Sowing Time: Kartik

Year: 2014/2015
Condition : Unirrigated/Main Season
Harvesting Time: Magh/Falgun

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			63991.20
a. Human Labor	Days	51	400.00	20400.00
b. Bullock Labor	Days	3	650.00	1950.00
c. Tractor Use	Hours	6	900.00	5400.00
d. Pumpset Use	Hours	8	225.00	1800.00
e. Sprayer Use	Hours	10	20.00	200.00
f. Seed	Kg.	21	125.00	2625.00
g. Manure	Kg.	5580	1.00	5580.00
h. Fertilizer				
Urea	Kg.	100	25.00	2500.00
D.A.P	Kg.	75	50.00	1875.00
Potash	Kg.	35	35.00	1750.00
i. Plant Protection Chemicals	Rs.			950.00
j. Management Cost	Rs.			3000.00
k Land Lease	Rs.			13500.00
l. Interest on Variable Cost	Rs.			2461.20
2. Fixed Cost	Rs.			297.00
a. Land Tax	Rs.			62.00
b. Water Tax	Rs.			25.00
c. Repair and Maintenance	Rs.			98.00
d. Depreciation	Rs.			112.00
3. Total Cost	Rs.			64288.20
4. Gross Income at Farm Gate	Rs.			95040.00
a. Main Product	Kg.	990	96.00	95040.00
5. Net Profit at Farm Gate	Rs.			30751.80
6. Production Cost Per Quintal	Rs.			6493.76
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			118.80
b. Value at Market	Kg.	940.5	102.00	95931.00
c. Net Profit	Rs.			31524.00

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Chitwan

Crop: Mustard
Variety: Unnati
Sowing Time: Kartik

Year: 2014/2015
Condition : Unirrigated/Main Season
Harvesting Time: Magh/Falgun

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
<u>A. AVERAGE PRODUCTION COST</u>				
<u>1. Variable Cost</u>	<u>Rs.</u>			69019.60
a. Human Labor	Days	52	450.00	23400.00
b. Bullock Labor	Days	0	0.00	0.00
c. Tractor Use	Hours	8	900.00	7200.00
d. Pumpset Use	Hours	10	200.00	2000.00
e. Sprayer Use	Hours	10	20.00	200.00
f. Seed	Kg.	23	130.00	2990.00
g. Manure	Kg.	4370	1.50	6555.00
h. Fertilizer				
Urea	Kg.	100	25.00	2500.00
D.A.P	Kg.	80	51.00	2000.00
Potash	Kg.	40	38.00	2040.00
i. Plant Protection Chemicals	Rs.			980.00
j. Management Cost	Rs.			3000.00
k. Land Lease	Rs.			13500.00
l. Interest on Variable Cost	Rs.			2654.60
<u>2. Fixed Cost</u>	<u>Rs.</u>			292.00
a. Land Tax	Rs.			54.00
b. Water Tax	Rs.			30.00
c. Repair and Maintenance	Rs.			96.00
d. Depreciation	Rs.			112.00
<u>3. Total Cost</u>	<u>Rs.</u>			69311.60
<u>4. Gross Income at Farm Gate</u>	<u>Rs.</u>			104160.00
a. Main Product	Kg.	1085	96.00	104160.00
<u>5. Net Profit at Farm Gate</u>	<u>Rs.</u>			34848.40
<u>6. Production Cost Per Quintal</u>	<u>Rs.</u>			6388.17
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
<u>a. Marketing Cost</u>	<u>Rs.</u>			130.20
<u>b. Value at Market</u>	<u>Kg.</u>	1030.75	104.00	107198.00
<u>c. Net Profit</u>	<u>Rs.</u>			37756.20

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Bara

Crop: Mustard
Variety: Priti
Sowing Time: Kartik

Year: 2014/2015
Condition : Unirrigated/Main Season
Harvesting Time: Magh/Falgun

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			64448.80
a. Human Labor	Days	49	410.00	20090.00
b. Bullock Labor	Days	3	675.00	2025.00
c. Tractor Use	Hours	7	900.00	6300.00
d. Pumpset Use	Hours	7	250.00	1750.00
e. Sprayer Use	Hours	10	20.00	200.00
f. Seed	Kg.	22	115.00	2530.00
g. Manure	Kg.	4820	1.25	6025.00
h. Fertilizer				
Urea	Kg.	90	25.00	2250.00
D.A.P	Kg.	60	48.00	1500.00
Potash	Kg.	40	34.00	1920.00
i. Plant Protection Chemicals	Rs.			880.00
j. Management Cost	Rs.			3000.00
k. Land Lease	Rs.			13500.00
l. Interest on Variable Cost	Rs.			2478.80
2. Fixed Cost	Rs.			245.00
a. Land Tax	Rs.			55.00
b. Water Tax	Rs.			0.00
c. Repair and Maintenance	Rs.			94.00
d. Depreciation	Rs.			96.00
3. Total Cost	Rs.			64693.80
4. Gross Income at Farm Gate	Rs.			97440.00
a. Main Product	Kg.	1015	96.00	97440.00
5. Net Profit at Farm Gate	Rs.			32746.20
6. Production Cost Per Quintal	Rs.			6373.77
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			121.80
b. Value at Market	Kg.	964.25	101.10	97485.68
c. Net Profit	Rs.			32670.08

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Pyuthan

Crop: Mustard

Year: 2014/2015

Variety: Lumle -1

Condition : Unirrigated/Main Season

Sowing Time: Bhadra/Aswin

Harvesting Time: Mangsir/Poush

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
<u>A. AVERAGE PRODUCTION COST</u>				
<u>1. Variable Cost</u>	<u>Rs.</u>			48201.92
a. Human Labor	Days	38	350.00	13300.00
b. Bullock Labor	Days	11	580.00	6380.00
c. Power Tiller Use	Hours	2	550.00	1100.00
d. Pumpset Use	Hours	5	200.00	1000.00
e. Sprayer Use	Hours	9	20.00	180.00
f. Seed	Kg.	21	148.00	3108.00
g. Manure	Kg.	7280	1.00	7280.00
h. Fertilizer				
Urea	Kg.	55	25.00	1375.00
D.A.P	Kg.	25	50.00	625.00
Potash	Kg.	15	36.00	750.00
i. Plant Protection Chemicals	Rs.			750.00
j. Management Cost	Rs.			1500.00
k. Land Lease	Rs.			9000.00
l. Interest on Variable Cost	Rs.			1853.92
<u>2. Fixed Cost</u>	<u>Rs.</u>			235.00
a. Land Tax	Rs.			55.00
b. Water Tax	Rs.			0.00
c. Repair and Maintenance	Rs.			84.00
d. Depreciation	Rs.			96.00
<u>3. Total Cost</u>	<u>Rs.</u>			48436.92
<u>4. Gross Income at Farm Gate</u>	<u>Rs.</u>			77550.00
a. Main Product	Kg.	825	94.00	77550.00
<u>5. Net Profit at Farm Gate</u>	<u>Rs.</u>			29113.08
<u>6. Production Cost Per Quintal</u>	<u>Rs.</u>			5871.14
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
<u>a. Marketing Cost</u>	<u>Rs.</u>			99.00
<u>b. Value at Market</u>	<u>Kg.</u>	783.75	98.00	76807.50
<u>c. Net Profit</u>	<u>Rs.</u>			28271.58

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Sunsari

Crop: Mustard
Variety: Morang Tori
Sowing Time: Kartik

Year: 2014/2015
Condition : Unirrigated/Main Season
Harvesting Time: Magh/Falgun

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
<u>A. AVERAGE PRODUCTION COST</u>				
<u>1. Variable Cost</u>	<u>Rs.</u>			61261.20
a. Human Labor	Days	48	400.00	19200.00
b. Bullock Labor	Days	3	750.00	2250.00
c. Tractor Use	Hours	5	875.00	4375.00
d. Pumpset Use	Hours	8	235.00	1880.00
e. Sprayer Use	Hours	10	20.00	200.00
f. Seed	Kg.	20	160.00	3200.00
g. Manure	Kg.	5050	1.00	5050.00
h. Fertilizer				
Urea	Kg.	90	25.00	2250.00
D.A.P	Kg.	55	50.00	1375.00
Potash	Kg.	35	35.00	1750.00
i. Plant Protection Chemicals	Rs.			875.00
j. Management Cost	Rs.			3000.00
k. Land Lease	Rs.			13500.00
l. Interest on Variable Cost	Rs.			2356.20
<u>2. Fixed Cost</u>	<u>Rs.</u>			311.00
a. Land Tax	Rs.			56.00
b. Water Tax	Rs.			32.00
c. Repair and Maintenance	Rs.			108.00
d. Depreciation	Rs.			115.00
<u>3. Total Cost</u>	<u>Rs.</u>			61572.20
<u>4. Gross Income at Farm Gate</u>	<u>Rs.</u>			92610.00
a. Main Product	Kg.	945	98.00	92610.00
<u>5. Net Profit at Farm Gate</u>	<u>Rs.</u>			31037.80
<u>6. Production Cost Per Quintal</u>	<u>Rs.</u>			6515.58
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
<u>a. Marketing Cost</u>	<u>Rs.</u>			113.40
<u>b. Value at Market</u>	<u>Kg.</u>	897.75	105.00	94263.75
<u>c. Net Profit</u>	<u>Rs.</u>			32578.15

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Chitwan

Crop: Yellow Mustard
Variety: Krishna
Sowing Time: Mangsir

Year: 2014/2015
Condition : Unirrigated/Main Season
Harvesting Time: Falgun

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			53950.00
a. Human Labor	Days	42	450.00	18900.00
b. Bullock Labor	Days	0	0.00	0.00
c. Tractor Use	Hours	2	900.00	1800.00
d. Pumpset Use	Hours	8	200.00	1600.00
e. Sprayer Use	Hours	4	20.00	80.00
f. Seed	Kg.	20	120.00	2400.00
g. Manure	Kg.	4010	1.50	6015.00
h. Fertilizer				
Urea	Kg.	60	25.00	1500.00
D.A.P	Kg.	40	51.00	1000.00
Potash	Kg.	30	38.00	1530.00
i. Plant Protection Chemicals	Rs.			550.00
j. Management Cost	Rs.			3000.00
k. Land Lease	Rs.			13500.00
l. Interest on Variable Cost	Rs.			2075.00
2. Fixed Cost	Rs.			262.00
a. Land Tax	Rs.			54.00
b. Water Tax	Rs.			0.00
c. Repair and Maintenance	Rs.			96.00
d. Depreciation	Rs.			112.00
3. Total Cost	Rs.			54212.00
4. Gross Income at Farm Gate	Rs.			85950.00
a. Main Product	Kg.	955	90.00	85950.00
5. Net Profit at Farm Gate	Rs.			31738.00
6. Production Cost Per Quintal	Rs.			5676.65
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			114.60
b. Value at Market	Kg.	907.25	95.00	86188.75
c. Net Profit	Rs.			31862.15

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Parsa

Crop: Yellow Mustard

Year: 2014/2015

Variety: Krishna

Condition : Unirrigated/Main Season

Sowing Time: Kartik

Harvesting Time: Magh/Falgun

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
<u>A. AVERAGE PRODUCTION COST</u>				
<u>1. Variable Cost</u>	<u>Rs.</u>			49571.60
a. Human Labor	Days	40	425.00	17000.00
b. Bullock Labor	Days	2	690.00	1380.00
c. Tractor Use	Hours	1	900.00	900.00
d. Pumpset Use	Hours	7	250.00	1750.00
e. Sprayer Use	Hours	4	20.00	80.00
f. Seed	Kg.	19	120.00	2280.00
g. Manure	Kg.	3890	1.00	3890.00
h. Fertilizer				
Urea	Kg.	55	24.00	1320.00
D.A.P	Kg.	35	48.00	840.00
Potash	Kg.	25	33.00	1200.00
i. Plant Protection Chemicals	Rs.			525.00
j. Management Cost	Rs.			3000.00
k. Land Lease	Rs.			13500.00
l. Interest on Variable Cost	Rs.			1906.60
<u>2. Fixed Cost</u>	<u>Rs.</u>			280.00
a. Land Tax	Rs.			56.00
b. Water Tax	Rs.			30.00
c. Repair and Maintenance	Rs.			96.00
d. Depreciation	Rs.			98.00
<u>3. Total Cost</u>	<u>Rs.</u>			49851.60
<u>4. Gross Income at Farm Gate</u>	<u>Rs.</u>			82280.00
a. Main Product	Kg.	935	88.00	82280.00
<u>5. Net Profit at Farm Gate</u>	<u>Rs.</u>			32428.40
<u>6. Production Cost Per Quintal</u>	<u>Rs.</u>			5331.72
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
<u>a. Marketing Cost</u>	<u>Rs.</u>			112.20
<u>b. Value at Market</u>	<u>Kg.</u>	888.25	93.00	82607.25
<u>c. Net Profit</u>	<u>Rs.</u>			32643.45

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Dang

Crop: Yellow Mustard
Variety: Pusa
Sowing Time: Mangsir

Year: 2014/2015
Condition : Unirrigated/Main Season
Harvesting Time: Falgun

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			47933.60
a. Human Labor	Days	40	375.00	15000.00
b. Bullock Labor	Days	2	650.00	1300.00
c. Tractor Use	Hours	2	850.00	1700.00
d. Pumpset Use	Hours	10	225.00	2250.00
e. Sprayer Use	Hours	5	20.00	100.00
f. Seed	Kg.	18	115.00	2070.00
g. Manure	Kg.	3790	1.00	3790.00
h. Fertilizer				
Urea	Kg.	50	24.00	1200.00
D.A.P	Kg.	30	50.00	720.00
Potash	Kg.	20	36.00	1000.00
i. Plant Protection Chemicals	Rs.			460.00
j. Management Cost	Rs.			3000.00
k. Land Lease	Rs.			13500.00
l. Interest on Variable Cost	Rs.			1843.60
2. Fixed Cost	Rs.			287.00
a. Land Tax	Rs.			54.00
b. Water Tax	Rs.			25.00
c. Repair and Maintenance	Rs.			96.00
d. Depreciation	Rs.			112.00
3. Total Cost	Rs.			48220.60
4. Gross Income at Farm Gate	Rs.			80990.00
a. Main Product	Kg.	910	89.00	80990.00
5. Net Profit at Farm Gate	Rs.			32769.40
6. Production Cost Per Quintal	Rs.			5298.97
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			109.20
b. Value at Market	Kg.	864.5	94.00	81263.00
c. Net Profit	Rs.			32933.20

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Kanchanpur

Crop: Yellow Mustard
Variety: Pusa Bold
Sowing Time: Mangsir

Year: 2014/2015
Condition : Unirrigated/Main Season
Harvesting Time: Falgun

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			48260.16
a. Human Labor	Days	41	380.00	15580.00
b. Bullock Labor	Days	2	640.00	1280.00
c. Tractor Use	Hours	2	875.00	1750.00
d. Pumpset Use	Hours	8	225.00	1800.00
e. Sprayer Use	Hours	6	25.00	150.00
f. Seed	Kg.	18	118.00	2124.00
g. Manure	Kg.	3855	1.00	3855.00
h. Fertilizer				
Urea	Kg.	55	25.00	1375.00
D.A.P	Kg.	30	50.00	750.00
Potash	Kg.	15	36.00	750.00
i. Plant Protection Chemicals	Rs.			490.00
j. Management Cost	Rs.			3000.00
k. Land Lease	Rs.			13500.00
l. Interest on Variable Cost	Rs.			1856.16
2. Fixed Cost	Rs.			260.00
a. Land Tax	Rs.			45.00
b. Water Tax	Rs.			25.00
c. Repair and Maintenance	Rs.			94.00
d. Depreciation	Rs.			96.00
3. Total Cost	Rs.			48520.16
4. Gross Income at Farm Gate	Rs.			81450.00
a. Main Product	Kg.	905	90.00	81450.00
5. Net Profit at Farm Gate	Rs.			32929.84
6. Production Cost Per Quintal	Rs.			5361.34
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			108.60
b. Value at Market	Kg.	859.75	95.00	81676.25
c. Net Profit	Rs.			33047.49

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Morang

Crop: Yellow Mustard

Year: 2014/2015

Variety: Pusa Bold

Condition : Unirrigated/Main Season

Sowing Time: Kartik

Harvesting Time: Magh/Falgun

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
<u>A. AVERAGE PRODUCTION COST</u>				
<u>1. Variable Cost</u>	<u>Rs.</u>			49740.60
a. Human Labor	Days	38	400.00	15200.00
b. Bullock Labor	Days	2	725.00	1450.00
c. Tractor Use	Hours	2	925.00	1850.00
d. Pumpset Use	Hours	6	200.00	1200.00
e. Sprayer Use	Hours	8	20.00	160.00
f. Seed	Kg.	19	115.00	2185.00
g. Manure	Kg.	3915	1.50	5872.50
h. Fertilizer				
Urea	Kg.	50	23.00	1150.00
D.A.P	Kg.	30	50.00	690.00
Potash	Kg.	20	35.00	1000.00
i. Plant Protection Chemicals	Rs.			570.00
j. Management Cost	Rs.			3000.00
k. Land Lease	Rs.			13500.00
l. Interest on Variable Cost	Rs.			1913.10
<u>2. Fixed Cost</u>	<u>Rs.</u>			287.00
a. Land Tax	Rs.			54.00
b. Water Tax	Rs.			25.00
c. Repair and Maintenance	Rs.			98.00
d. Depreciation	Rs.			110.00
<u>3. Total Cost</u>	<u>Rs.</u>			50027.60
<u>4. Gross Income at Farm Gate</u>	<u>Rs.</u>			82980.00
a. Main Product	Kg.	922	90.00	82980.00
<u>5. Net Profit at Farm Gate</u>	<u>Rs.</u>			32952.40
<u>6. Production Cost Per Quintal</u>	<u>Rs.</u>			5425.99
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
<u>a. Marketing Cost</u>	<u>Rs.</u>			110.64
<u>b. Value at Market</u>	<u>Kg.</u>	875.9	95.00	83210.50
<u>c. Net Profit</u>	<u>Rs.</u>			33072.26

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Bara

Crop: Sesame
Variety: Nawalpur Khairo
Sowing Time: Mangsir

Year: 2014/2015
Condition : Unirrigated/Main Season
Harvesting Time: Magh/Falgun

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			40084.20
a. Human Labor	Days	30	410.00	12300.00
b. Bullock Labor	Days	1	675.00	675.00
c. Tractor Use	Hours	1	900.00	900.00
d. Pumpset Use	Hours	2	250.00	500.00
e. Sprayer Use	Hours	0	0.00	0.00
f. Seed	Kg.	12	125.00	1500.00
g. Manure	Kg.	3250	1.25	4062.50
h. Fertilizer				
Urea	Kg.	40	25.00	1000.00
D.A.P	Kg.	15	48.00	375.00
Potash	Kg.	10	34.00	480.00
i. Plant Protection Chemicals	Rs.			250.00
j. Management Cost	Rs.			3000.00
k. Land Lease	Rs.			13500.00
l. Interest on Variable Cost	Rs.			1541.70
2. Fixed Cost	Rs.			270.00
a. Land Tax	Rs.			55.00
b. Water Tax	Rs.			25.00
c. Repair and Maintenance	Rs.			94.00
d. Depreciation	Rs.			96.00
3. Total Cost	Rs.			40354.20
4. Gross Income at Farm Gate	Rs.			142100.00
a. Main Product	Kg.	980	145.00	142100.00
5. Net Profit at Farm Gate	Rs.			101745.80
6. Production Cost Per Quintal	Rs.			4117.78
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			117.60
b. Value at Market	Kg.	931	155.00	144305.00
c. Net Profit	Rs.			103833.20

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Kapilwastu

Crop: Sesame

Year: 2014/2015

Variety: Nawalpur Khairo

Condition : Unirrigated/Main Season

Sowing Time: Mangsir

Harvesting Time: Magh/Falgun

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			36202.40
a. Human Labor	Days	28	375.00	10500.00
b. Bullock Labor	Days	1	650.00	650.00
c. Tractor Use	Hours	1	850.00	850.00
d. Pumpset Use	Hours	2	215.00	430.00
e. Sprayer Use	Hours	0	0.00	0.00
f. Seed	Kg.	10	120.00	1200.00
g. Manure	Kg.	3190	1.00	3190.00
h. Fertilizer				
Urea	Kg.	30	25.00	750.00
D.A.P	Kg.	10	50.00	250.00
Potash	Kg.	5	35.00	250.00
i. Plant Protection Chemicals	Rs.			240.00
j. Management Cost	Rs.			3000.00
k. Land Lease	Rs.			13500.00
l. Interest on Variable Cost	Rs.			1392.40
2. Fixed Cost	Rs.			271.00
a. Land Tax	Rs.			54.00
b. Water Tax	Rs.			25.00
c. Repair and Maintenance	Rs.			93.00
d. Depreciation	Rs.			99.00
3. Total Cost	Rs.			36473.40
4. Gross Income at Farm Gate	Rs.			139200.00
a. Main Product	Kg.	960	145.00	139200.00
5. Net Profit at Farm Gate	Rs.			102726.60
6. Production Cost Per Quintal	Rs.			3799.31
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			115.20
b. Value at Market	Kg.	912	155.00	141360.00
c. Net Profit	Rs.			104771.40

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Siraha

Crop: Sesame

Year: 2014/2015

Variety: Nawalpur Khairo

Condition : Unirrigated/Main Season

Sowing Time: Mangsir

Harvesting Time: Magh/Falgun

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			38958.40
a. Human Labor	Days	29	410.00	11890.00
b. Bullock Labor	Days	1	675.00	675.00
c. Tractor Use	Hours	1	900.00	900.00
d. Pumpset Use	Hours	2	250.00	500.00
e. Sprayer Use	Hours	0	0.00	0.00
f. Seed	Kg.	11	125.00	1375.00
g. Manure	Kg.	3220	1.25	4025.00
h. Fertilizer				
Urea	Kg.	35	25.00	875.00
D.A.P	Kg.	10	48.00	250.00
Potash	Kg.	5	34.00	240.00
i. Plant Protection Chemicals	Rs.			230.00
j. Management Cost	Rs.			3000.00
k. Land Lease	Rs.			13500.00
l. Interest on Variable Cost	Rs.			1498.40
2. Fixed Cost	Rs.			301.00
a. Land Tax	Rs.			52.00
b. Water Tax	Rs.			40.00
c. Repair and Maintenance	Rs.			97.00
d. Depreciation	Rs.			112.00
3. Total Cost	Rs.			39259.40
4. Gross Income at Farm Gate	Rs.			140650.00
a. Main Product	Kg.	970	145.00	140650.00
5. Net Profit at Farm Gate	Rs.			101390.60
6. Production Cost Per Quintal	Rs.			4047.36
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			116.40
b. Value at Market	Kg.	921.5	155.00	142832.50
c. Net Profit	Rs.			103456.70

Spice Crops

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Kailali

Crop: Chilli

Year: 2014/2015

Variety: Namdhari

Condition :Irrigated/Main Season

Planting Time: Bhadra/Aswin

Harvesting Time: Mangsir/Poush

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			168610.00
a. Human Labor	Days	210	425.00	89250.00
b. Bullock Labor	Days	5	675.00	3375.00
c. Tractor Use	Hours	6	900.00	5400.00
d. Pumpset Use	Hours	9	250.00	2250.00
e. Sprayer Use	Hours	14	20.00	280.00
f. Seed	Kg.	0.5	50000.00	25000.00
g. Manure	Kg.	13245	1.00	13245.00
h. Fertilizer				
Urea	Kg.	75	25.00	1875.00
D.A.P	Kg.	70	50.00	1750.00
Potash	Kg.	45	36.00	2250.00
i. Plant Protection Chemicals	Rs.			950.00
j. Land Lease	Rs.			13500.00
k. Management Cost	Rs.			3000.00
l. Interest on Variable Cost	Rs.			6485.00
2. Fixed Cost	Rs.			280.00
a. Land Tax	Rs.			60.00
b. Water Tax	Rs.			20.00
c. Repair and Maintenance	Rs.			92.00
d. Depreciation	Rs.			108.00
3. Total Cost	Rs.			168890.00
4. Gross Income at Farm Gate	Rs.			404668.00
a. Main Product	Kg.	2164	187.00	404668.00
5. Net Profit at Farm Gate	Rs.			235778.00
6. Production Cost Per Quintal	Rs.			7804.53
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			259.68
b. Value at Market	Kg.	2055.8	196.00	402936.80
c. Net Profit	Rs.			233787.12

Note: Nursery bed preparation is done one month ahead of planting time.

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Siraha

Crop: Chilli

Year: 2014/2015

Variety: Naam Dhari

Condition : Unirrigated/Main Season

Planting Time: Bhadra/Aswin

Harvesting Time: Mangsir/Poush

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			159162.00
a. Human Labor	Days	208	400.00	83200.00
b. Bullock Labor	Days	5	75.00	375.00
c. Tractor Use	Hours	8	875.00	7000.00
d. Pumpset Use	Hours	12	235.00	2820.00
e. Sprayer Use	Hours	14	20.00	280.00
f. Seed	Kg.	0.5	50000.00	25000.00
g. Manure	Kg.	12680	1.00	12680.00
h. Fertilizer				
Urea	Kg.	90	25.00	2250.00
D.A.P	Kg.	70	50.00	1750.00
Potash	Kg.	50	35.00	2500.00
i. Plant Protection Chemicals	Rs.			925.00
j. Land Lease	Rs.			13500.00
k. Management Cost	Rs.			3000.00
l. Interest on Variable Cost	Rs.			3882.00
2. Fixed Cost	Rs.			311.00
a. Land Tax	Rs.			56.00
b. Water Tax	Rs.			32.00
c. Repair and Maintenance	Rs.			108.00
d. Depreciation	Rs.			115.00
3. Total Cost	Rs.			159473.00
4. Gross Income at Farm Gate	Rs.			408850.00
a. Main Product	Kg.	2210	185.00	408850.00
5. Net Profit at Farm Gate	Rs.			249377.00
6. Production Cost Per Quintal	Rs.			7215.97
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			265.20
b. Value at Market	Kg.	2099.5	195.00	409402.50
c. Net Profit	Rs.			249664.30

Note: Nursery bed preparation is done one month ahead of planting time.

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Nuwakott

Crop: Chilli

Year: 2014/2015

Variety: Jwala

Condition :Irrigated/Main Season

Planting Time: Magh/Falgun

Harvesting Time: Jestha/Asad

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
<u>1. Variable Cost</u>	<u>Rs.</u>			129759.50
a. Human Labor	Days	196	375.00	73500.00
b. Bullock Labor	Days	5	575.00	2875.00
c. Power Tiller Use	Hours	7	525.00	3675.00
d. Pumpset Use	Hours	12	200.00	2400.00
e. Sprayer Use	Hours	10	20.00	200.00
f. Seed	Kg.	0.6	10000.00	6000.00
g. Manure	Kg.	9855	1.25	12318.75
h. Fertilizer				
Urea	Kg.	75	25.00	1875.00
D.A.P	Kg.	65	50.00	1625.00
Potash	Kg.	45	36.00	2250.00
i. Plant Protection Chemicals	Rs.			1050.00
j. Land Lease	Rs.			15500.00
k. Management Cost	Rs.			1500.00
l. Interest on Variable Cost	Rs.			4990.75
<u>2. Fixed Cost</u>	<u>Rs.</u>			214.00
a. Land Tax	Rs.			46.00
b. Water Tax	Rs.			
c. Repair and Maintenance	Rs.			78.00
d. Depreciation	Rs.			90.00
<u>3. Total Cost</u>	<u>Rs.</u>			129973.50
<u>4. Gross Income at Farm Gate</u>	<u>Rs.</u>			348075.00
a. Main Product	Kg.	1785	195.00	348075.00
<u>5. Net Profit at Farm Gate</u>	<u>Rs.</u>			218101.50
<u>6. Production Cost Per Quintal</u>	<u>Rs.</u>			7281.43
B. MARKETING AT NEAREST WHOLESALE MARKET				
<u>a. Marketing Cost</u>	<u>Rs.</u>			214.20
<u>b. Value at Market</u>	<u>Kg.</u>	1695.75	200.00	339150.00
<u>c. Net Profit</u>	<u>Rs.</u>			208962.30

Note: Nursery bed preparation is done one month ahead of planting time.

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Sindhupalchowk

Crop: Chilli

Year: 2014/2015

Variety: Local

Condition : Unirrigated/Main Season

Planting Time: Magh/Falgun

Harvesting Time: Jestha/Asad

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			119576.50
a. Human Labor	Days	222	375.00	83250.00
b. Bullock Labor	Days	6	600.00	3600.00
c. Power Tiller Use	Hours	0	0.00	0.00
d. Pumpset Use	Hours	0	0.00	0.00
e. Sprayer Use	Hours	8	20.00	160.00
f. Seed	Kg.	0.6	12000.00	7200.00
g. Manure	Kg.	8860	1.00	8860.00
h. Fertilizer				
Urea	Kg.	50	25.00	1250.00
D.A.P	Kg.	30	53.00	750.00
Potash	Kg.	10	36.00	530.00
i. Plant Protection Chemicals	Rs.			560.00
j. Land Lease	Rs.			9000.00
k. Management Cost	Rs.			1500.00
l. Interest on Variable Cost	Rs.			2916.50
2. Fixed Cost	Rs.			5250.00
a. Land Tax	Rs.			5042.00
b. Water Tax	Rs.			0.00
c. Repair and Maintenance	Rs.			96.00
d. Depreciation	Rs.			112.00
3. Total Cost	Rs.			124826.50
4. Gross Income at Farm Gate	Rs.			333000.00
a. Main Product	Kg.	1665	200.00	333000.00
5. Net Profit at Farm Gate	Rs.			208173.50
6. Production Cost Per Quintal	Rs.			7497.09
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			199.80
b. Value at Market	Kg.	1581.75	220.00	347985.00
c. Net Profit	Rs.			222958.70

Note: Nursery bed preparation is done one month ahead of planting time.

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Arghakhachi

Crop: Chilli
Variety: Jwala
Planting Time: Falgun

Year: 2014/2015
Condition :Irrigated/Main Season
Harvesting Time: Jestha/Asad

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
A. AVERAGE PRODUCTION COST				
<u>1. Variable Cost</u>	<u>Rs.</u>			125118.68
a. Human Labor	Days	198	375.00	74250.00
b. Bullock Labor	Days	7	600.00	4200.00
c. Power Tiller Use	Hours	8	550.00	4400.00
d. Pumpset Use	Hours	12	250.00	3000.00
e. Sprayer Use	Hours	12	20.00	240.00
f. Seed	Kg.	0.6	12000.00	7200.00
g. Manure	Kg.	12832	1.00	12832.00
h. Fertilizer				
Urea	Kg.	65	25.00	1625.00
D.A.P	Kg.	50	52.00	1250.00
Potash	Kg.	35	37.00	1820.00
i. Plant Protection Chemicals	Rs.			750.00
j. Land Lease	Rs.			9000.00
k. Management Cost	Rs.			1500.00
l. Interest on Variable Cost	Rs.			3051.68
<u>2. Fixed Cost</u>	<u>Rs.</u>			229.00
a. Land Tax	Rs.			44.00
b. Water Tax	Rs.			0.00
c. Repair and Maintenance	Rs.			93.00
d. Depreciation	Rs.			92.00
<u>3. Total Cost</u>	<u>Rs.</u>			125347.68
<u>4. Gross Income at Farm Gate</u>	<u>Rs.</u>			350592.00
a. Main Product	Kg.	1826	192.00	350592.00
<u>5. Net Profit at Farm Gate</u>	<u>Rs.</u>			225244.33
<u>6. Production Cost Per Quintal</u>	<u>Rs.</u>			6864.60
B. MARKETING AT NEAREST WHOLESALE MARKET				
<u>a. Marketing Cost</u>	<u>Rs.</u>			219.12
<u>b. Value at Market</u>	<u>Kg.</u>	1734.7	196.00	340001.20
<u>c. Net Profit</u>	<u>Rs.</u>			214434.41

Note: Nursery bed preparation is done one month ahead of planting time.

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Parsa

Crop: Onion

Year: 2014/2015

Variety: Red Cruel

Condition : Unirrigated/Main Season

Sowing Time: Kartik/Mangsir

Harvesting Time: Chaitra/Baishakh

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
<u>A. AVERAGE PRODUCTION COST</u>				
1. Variable Cost	<u>Rs.</u>			124248.80
a. Human Labor	Days	168	425.00	71400.00
b. Bullock Labor	Days	5	690.00	3450.00
c. Tractor Use	Hours	9	900.00	8100.00
d. Pumpset Use	Hours	12	250.00	3000.00
e. Sprayer Use	Hours	9	20.00	180.00
f. Seed	Kg.	0.6	1100.00	660.00
g. Manure	Kg.	9810	1.00	9810.00
h. Fertilizer				
Urea	Kg.	75	24.00	1800.00
D.A.P	Kg.	60	48.00	1440.00
Potash	Kg.	40	33.00	1920.00
i. Plant Protection Chemicals	Rs.			1210.00
j. Land Lease	Rs.			13500.00
k Management Cost	Rs.			3000.00
l. Interest on Variable Cost	Rs.			4778.80
2. Fixed Cost	<u>Rs.</u>			275.00
a. Land Tax	Rs.			56.00
b. Water Tax	Rs.			25.00
c. Repair and Maintenance	Rs.			96.00
d. Depreciation	Rs.			98.00
3. Total Cost	<u>Rs.</u>			124523.80
4. Gross Income at Farm Gate	<u>Rs.</u>			314405.00
a. Main Product	Kg.	13820	22.25	307495.00
b. By-Product	Mutha	1382	5.00	6910.00
5. Net Profit at Farm Gate	<u>Rs.</u>			189881.20
6. Production Cost per Quintal	<u>Rs.</u>			851.04
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
a. Marketing Cost	<u>Rs.</u>			3455.00
b. Value at Market	<u>Kg.</u>	13129	25.50	334789.50
c. Net Profit	<u>Rs.</u>			213720.70

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Dang

Crop: Onion

Year: 2014/2015

Variety: NL - 53

Condition :Irrigated/Main Season

Sowing Time: Kartik/Mangsir

Harvesting Time: Chaitra/Baishakh

Particulars	Units	Quantity	Rs/Unit	Total
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			116084.80
a. Human Labor	Days	169	375.00	63375.00
b. Bullock Labor	Days	6	650.00	3900.00
c. Tractor Use	Hours	9	850.00	7650.00
d. Pumpset Use	Hours	10	225.00	2250.00
e. Sprayer Use	Hours	10	20.00	200.00
f. Seed	Kg.	0.7	1050.00	735.00
g. Manure	Kg.	11210	1.00	11210.00
h. Fertilizer				
Urea	Kg.	70	24.00	1680.00
D.A.P	Kg.	55	50.00	1320.00
Potash	Kg.	35	36.00	1750.00
i. Plant Protection Chemicals	Rs.			1050.00
j. Land Lease	Rs.			13500.00
k Management Cost	Rs.			3000.00
l. Interest on Variable Cost	Rs.			4464.80
2. Fixed Cost	Rs.			287.00
a. Land Tax	Rs.			54.00
b. Water Tax	Rs.			25.00
c. Repair and Maintenance	Rs.			96.00
d. Depreciation	Rs.			112.00
3. Total Cost	Rs.			116371.80
4. Gross Income at Farm Gate	Rs.			282837.00
a. Main Product	Kg.	12655	21.90	277144.50
b. By-Product	Mutha	1265	4.50	5692.50
5. Net Profit at Farm Gate	Rs.			166465.20
6. Production Cost per Quintal	Rs.			874.59
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			3163.75
b. Value at Market	Kg.	12022.3	24.75	297550.69
c. Net Profit	Rs.			183707.64

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Saptari

Crop: Onion

Year: 2014/2015

Variety: Red Cruel

Condition : Irrigated/Main Season

Sowing Time: Kartik/Mangsir

Harvesting Time: Chaitra/Baishakh

Particulars	Units	Quantity	Rs/Unit	Total
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			121630.60
a. Human Labor	Days	168	400.00	67200.00
b. Bullock Labor	Days	7	700.00	4900.00
c. Tractor Use	Hours	9	900.00	8100.00
d. Pumpset Use	Hours	8	225.00	1800.00
e. Sprayer Use	Hours	9	20.00	180.00
f. Seed	Kg.	0.75	1150.00	862.50
g. Manure	Kg.	11110	1.00	11110.00
h. Fertilizer				
Urea	Kg.	70	25.00	1750.00
D.A.P	Kg.	60	50.00	1500.00
Potash	Kg.	40	36.00	2000.00
i. Plant Protection Chemicals	Rs.			1050.00
j. Land Lease	Rs.			13500.00
k Management Cost	Rs.			3000.00
l. Interest on Variable Cost	Rs.			4678.10
2. Fixed Cost	Rs.			282.00
a. Land Tax	Rs.			52.00
b. Water Tax	Rs.			30.00
c. Repair and Maintenance	Rs.			95.00
d. Depreciation	Rs.			105.00
3. Total Cost	Rs.			121912.60
4. Gross Income at Farm Gate	Rs.			289217.50
a. Main Product	Kg.	12755	22.25	283798.75
b. By-Product	Mutha	1275	4.25	5418.75
5. Net Profit at Farm Gate	Rs.			167304.90
6. Production Cost per Quintal	Rs.			913.32
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			3188.75
b. Value at Market	Kg.	12117.3	25.10	304142.98
c. Net Profit	Rs.			184460.38

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Sindhuli

Crop: Onion

Year: 2014/2015

Variety: Nasik Red

Condition :Irrigated/Main Season

Sowing Time: Kartik/Mangsir

Harvesting Time: Chaitra/Baishakh

Particulars	Units	Quantity	Rs/Unit	Total
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			121258.80
a. Human Labor	Days	176	410.00	72160.00
b. Bullock Labor	Days	10	800.00	8000.00
c. Power Tiller Use	Hours	5	550.00	2750.00
d. Pumpset Use	Hours	4	225.00	900.00
e. Sprayer Use	Hours	10	23.00	230.00
f. Seed	Kg.	0.75	1200.00	900.00
g. Manure	Kg.	15190	1.00	15190.00
h. Fertilizer				
Urea	Kg.	65	25.00	1625.00
D.A.P	Kg.	50	51.00	1250.00
Potash	Kg.	40	36.00	2040.00
i. Plant Protection Chemicals	Rs.			1050.00
j. Land Lease	Rs.			9000.00
k Management Cost	Rs.			1500.00
l. Interest on Variable Cost	Rs.			4663.80
2. Fixed Cost	Rs.			258.00
a. Land Tax	Rs.			46.00
b. Water Tax	Rs.			
c. Repair and Maintenance	Rs.			96.00
d. Depreciation	Rs.			116.00
3. Total Cost	Rs.			121516.80
4. Gross Income at Farm Gate	Rs.			313329.00
a. Main Product	Kg.	13110	23.50	308085.00
b. By-Product	Mutha	1311	4.00	5244.00
5. Net Profit at Farm Gate	Rs.			191812.20
6. Production Cost per Quintal	Rs.			886.90
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			3277.50
b. Value at Market	Kg.	12454.5	26.00	323817.00
c. Net Profit	Rs.			204266.70

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Dadeldhura

Crop: Garlic

Year: 2014/2015

Variety: Nepali Local

Condition : Unirrigated/Main Season

Sowing Time: Kartik/Mangsir

Harvesting Time: Magh/Falgun

Particulars	Units	Quantity	Rs/Unit	Total
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			319092.80
a. Human Labor	Days	210	345.00	72450.00
b. Bullock Labor	Days	10	580.00	5800.00
c. Power Tiller Use	Hours	2	550.00	1100.00
d. Pumpset Use	Hours	13	250.00	3250.00
e. Sprayer Use	Hours	8	20.00	160.00
f. Seed	Kg.	1125	175.00	196875.00
g. Manure	Kg.	9815	1.00	9815.00
h. Fertilizer				
Urea	Kg.	70	35.00	2450.00
D.A.P	Kg.	50	50.00	1750.00
Potash	Kg.	35	36.00	1750.00
i. Plant Protection Chemicals	Rs.			920.00
j. Land Lease	Rs.			9000.00
k. Management Cost	Rs.			1500.00
l. Interest on Variable Cost	Rs.			12272.80
2. Fixed Cost	Rs.			5259.00
a. Land Tax	Rs.			5049.00
b. Water Tax	Rs.			
c. Repair and Maintenance	Rs.			90.00
d. Depreciation	Rs.			120.00
3. Total Cost	Rs.			324351.80
4. Gross Income at Farm Gate	Rs.			522170.00
a. Main Product	Kg.	6180	84.00	519120.00
b. By-Product	Mutha	610	5.00	3050.00
5. Net Profit at Farm Gate	Rs.			197818.20
6. Production Cost per Quintal	Rs.			5199.06
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			1545.00
b. Value at Market	Kg.	5871	88.00	516648.00
c. Net Profit	Rs.			193801.20

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Lalitpur

Crop: Garlic

Year: 2014/2015

Variety: Nepali Local

Condition :Irrigated/Main Season

Sowing Time: Kartik/Mangsir

Harvesting Time: Magh/Falgun

Particulars	Units	Quantity	Rs/Unit	Total
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			374153.00
a. Human Labor	Days	220	450.00	99000.00
b. Bullock Labor	Days	0	0.00	0.00
c. Power Tiller Use	Hours	12	500.00	6000.00
d. Pumpset Use	Hours	12	250.00	3000.00
e. Sprayer Use	Hours	8	25.00	200.00
f. Seed	Kg.	1100	180.00	198000.00
g. Manure	Kg.	11850	1.25	14812.50
h. Fertilizer				
Urea	Kg.	70	25.00	1750.00
D.A.P	Kg.	55	50.00	1375.00
Potash	Kg.	35	36.00	1750.00
i. Plant Protection Chemicals	Rs.			875.00
j. Land Lease	Rs.			30000.00
k. Management Cost	Rs.			3000.00
l. Interest on Variable Cost	Rs.			14390.50
2. Fixed Cost	Rs.			264.00
a. Land Tax	Rs.			52.00
b. Water Tax	Rs.			0.00
c. Repair and Maintenance	Rs.			92.00
d. Depreciation	Rs.			120.00
3. Total Cost	Rs.			374417.00
4. Gross Income at Farm Gate	Rs.			600545.00
a. Main Product	Kg.	6355	94.00	597370.00
b. By-Product	Mutha	635	5.00	3175.00
5. Net Profit at Farm Gate	Rs.			226128.00
6. Production Cost per Quintal	Rs.			5841.73
B. MARKETING AT NEAREST WHOLESAL MARKET				
a. Marketing Cost	Rs.			1588.75
b. Value at Market	Kg.	6037.25	100.00	603725.00
c. Net Profit	Rs.			230894.25

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Surkhet

Crop: Garlic

Year: 2014/2015

Variety: Nepali Local

Condition : Unirrigated/Main Season

Sowing Time: Aswin/Kartik

Harvesting Time: Poush/Magh

Particulars	Units	Quantity	Rs/Unit	Total
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			324251.20
a. Human Labor	Days	189	350.00	66150.00
b. Bullock Labor	Days	13	575.00	7475.00
c. Power Tiller Use	Hours	3	525.00	1575.00
d. Pumpset Use	Hours	6	225.00	1350.00
e. Sprayer Use	Hours	8	20.00	160.00
f. Seed	Kg.	1120	185.00	207200.00
g. Manure	Kg.	11690	1.00	11690.00
h. Fertilizer				
Urea	Kg.	65	26.00	1690.00
D.A.P	Kg.	45	50.00	1170.00
Potash	Kg.	40	36.00	2000.00
i. Plant Protection Chemicals	Rs.			820.00
j. Land Lease	Rs.			9000.00
k. Management Cost	Rs.			1500.00
l. Interest on Variable Cost	Rs.			12471.20
2. Fixed Cost	Rs.			239.00
a. Land Tax	Rs.			48.00
b. Water Tax	Rs.			0.00
c. Repair and Maintenance	Rs.			92.00
d. Depreciation	Rs.			99.00
3. Total Cost	Rs.			324490.20
4. Gross Income at Farm Gate	Rs.			576456.00
a. Main Product	Kg.	6220	92.20	573484.00
b. By-Product	Mutha	743	4.00	2972.00
5. Net Profit at Farm Gate	Rs.			251965.80
6. Production Cost per Quintal	Rs.			5169.10
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			1555.00
b. Value at Market	Kg.	5909	96.35	569332.15
c. Net Profit	Rs.			246258.95

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Rautahat

Crop: Garlic

Year: 2014/2015

Variety: Chinese

Condition :Irrigated/Main Season

Sowing Time: Chaitra/Bashakh

Harvesting Time: Ashad/Shrawan

Particulars	Units	Quantity	Rs/Unit	Total
A. AVERAGE PRODUCTION COST				
1. Variable Cost	Rs.			285407.20
a. Human Labor	Days	199	390.00	77610.00
b. Bullock Labor	Days	3	660.00	1980.00
c. Tractor Use	Hours	8	900.00	7200.00
d. Pumpset Use	Hours	10	225.00	2250.00
e. Sprayer Use	Hours	8	20.00	160.00
f. Seed	Kg.	980	150.00	147000.00
g. Manure	Kg.	12340	1.25	15425.00
h. Fertilizer				
Urea	Kg.	75	24.00	1800.00
D.A.P	Kg.	55	51.00	1320.00
Potash	Kg.	35	35.00	1785.00
i. Plant Protection Chemicals	Rs.			1400.00
j. Land Lease	Rs.			13500.00
k. Management Cost	Rs.			3000.00
l. Interest on Variable Cost	Rs.			10977.20
2. Fixed Cost	Rs.			270.00
a. Land Tax	Rs.			55.00
b. Water Tax	Rs.			25.00
c. Repair and Maintenance	Rs.			94.00
d. Depreciation	Rs.			96.00
3. Total Cost	Rs.			285677.20
4. Gross Income at Farm Gate	Rs.			505713.00
a. Main Product	Kg.	6985	72.20	504317.00
b. By-Product	Mutha	698	2.00	1396.00
5. Net Profit at Farm Gate	Rs.			220035.80
6. Production Cost per Quintal	Rs.			4069.88
B. MARKETING AT NEAREST WHOLESALE MARKET				
a. Marketing Cost	Rs.			1746.25
b. Value at Market	Kg.	6635.75	76.25	505975.94
c. Net Profit	Rs.			219948.49

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Nawalparasi

Crop: Garlic

Year: 2014/2015

Variety: Chinese

Condition : Irrigated/Main Season

Sowing Time: Chaitra/Bashakh

Harvesting Time: Ashad/Shrawan

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
<u>A. AVERAGE PRODUCTION COST</u>				
1. Variable Cost	Rs.			279910.80
a. Human Labor	Days	192	375.00	72000.00
b. Bullock Labor	Days	4	625.00	2500.00
c. Tractor Use	Hours	9	875.00	7875.00
d. Pumpset Use	Hours	10	225.00	2250.00
e. Sprayer Use	Hours	8	20.00	160.00
f. Seed	Kg.	980	150.00	147000.00
g. Manure	Kg.	12960	1.00	12960.00
h. Fertilizer				
Urea	Kg.	90	25.00	2250.00
D.A.P	Kg.	70	50.00	1750.00
Potash	Kg.	45	36.00	2250.00
i. Plant Protection Chemicals	Rs.			1650.00
j. Land Lease	Rs.			13500.00
k. Management Cost	Rs.			3000.00
l. Interest on Variable Cost	Rs.			10765.80
2. Fixed Cost	Rs.			276.00
a. Land Tax	Rs.			58.00
b. Water Tax	Rs.			30.00
c. Repair and Maintenance	Rs.			92.00
d. Depreciation	Rs.			96.00
3. Total Cost	Rs.			280186.80
4. Gross Income at Farm Gate	Rs.			507446.00
a. Main Product	Kg.	6980	72.50	506050.00
b. By-Product	Mutha	698	2.00	1396.00
5. Net Profit at Farm Gate	Rs.			227259.20
6. Production Cost per Quintal	Rs.			3994.14
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
a. Marketing Cost	Rs.			1745.00
b. Value at Market	Kg.	6631	76.75	508929.25
c. Net Profit	Rs.			228393.45

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Makwanpur

Crop: Ginger

Year: 2014/2015

Variety: Nase

Condition : Unirrigated/Main Season

Sowing Time: Falgun

Harvesting Time: Bhadra/Aswin

Particulars	Units	Quantity	Rs/Unit	Total
<u>A. AVERAGE PRODUCTION COST</u>				
1. Variable Cost	Rs.			736075.20
a. Human Labor	Days	135	400.00	54000.00
b. Bullock Labor	Days	5	650.00	3250.00
c. Power Tiller Use	Hours	8	550.00	4400.00
d. Pumpset Use	Hours	6	225.00	1350.00
e. Sprayer Use	Hours	12	20.00	240.00
f. Seed	Kg.	4250	125.00	531250.00
g. Manure	Kg.	13155	1.00	13155.00
h. Fertilizer				
Urea	Kg.	90	25.00	2250.00
D.A.P	Kg.	70	57.00	1750.00
Potash	Kg.	45	36.00	2565.00
i. Plant Protection Chemicals	Rs.			1000.00
j. Management Cost	Rs.			6000.00
k. Land Lease	Rs.			36000.00
l. Interest on Variable Cost	Rs.			78865.20
2. Fixed Cost	Rs.			620.00
a. Land Tax	Rs.			144.00
b. Water Tax	Rs.			0.00
c. Repair and Maintenance	Rs.			282.00
d. Depreciation	Rs.			194.00
3. Total Cost	Rs.			736695.20
4. Gross Income at Farm Gate	Rs.			1224190.00
a. Main Product	Kg.	23060.00		1224190.00
i. Fresh Ginger	Kg.	16550.00	40.00	662000.00
ii. Bruni	Kg.	3310.00	49.00	162190.00
iii. Seed	Kg.	3200.00	125.00	400000.00
5. Net Profit at Farm Gate	Rs.			487494.80
6. Production Cost Per Quintal	Rs.			3194.69
i. Fresh Ginger	Rs.			4451.33
ii. Bruni	Rs.			22256.65
iii. Seed	Rs.			23021.73
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
a. Marketing Cost	Rs.			5765.00
b. Value at Market	Kg.	21907	90.00	1971630.00
c. Net Profit	Rs.			1229169.80

Note: Cost per Quintal is presented by adding all the three kinds of products shown individually.

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Salyan

Crop: Ginger

Year: 2014/2015

Variety: Bose

Condition : Unirrigated/Main Season

Sowing Time: Falgun

Harvesting Time: Bhadra/Aswin

Particulars	Units	Quantity	Rs/Unit	Total
<u>A. AVERAGE PRODUCTION COST</u>				
1. Variable Cost	Rs.			820461.60
a. Human Labor	Days	152	350.00	53200.00
b. Bullock Labor	Days	20	625.00	12500.00
c. Power Tiller Use	Hours			0.00
d. Pumpset Use	Hours	10	225.00	2250.00
e. Sprayer Use	Hours	11	20.00	220.00
f. Seed	Kg.	4300	140.00	602000.00
g. Manure	Kg.	13455	1.00	13455.00
h. Fertilizer				
Urea	Kg.	80	25.00	2000.00
D.A.P	Kg.	70	57.00	1750.00
Potash	Kg.	40	36.00	2280.00
i. Plant Protection Chemicals	Rs.			900.00
j. Land Lease	Rs.			36000.00
k. Management Cost				6000.00
l. Interest on Variable Cost	Rs.			87906.60
2. Fixed Cost	Rs.			693.00
a. Land Tax	Rs.			141.00
b. Water Tax	Rs.			
c. Repair and Maintenance	Rs.			267.00
d. Depreciation	Rs.			285.00
3. Total Cost	Rs.			821154.60
4. Gross Income at Farm Gate	Rs.			1373340.00
a. Main Product	Kg.	23190.00		1373340.00
i. Fresh Ginger	Kg.	16620.00	45.00	747900.00
ii. Bruni	Kg.	3345.00	52.00	173940.00
iii. Seed	Kg.	3225.00	140.00	451500.00
5. Net Profit at Farm Gate	Rs.			552185.40
6. Production Cost Per Quintal	Rs.			3540.99
i. Fresh Ginger	Rs.			4940.76
ii. Bruni	Rs.			24548.72
iii. Seed	Rs.			25462.16
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
a. Marketing Cost	Rs.			5797.50
b. Value at Market	Kg.	22030.5	95.00	2092897.50
c. Net Profit	Rs.			1265945.40

Note: Cost per Quintal is presented by adding all the three kinds of products shown individually.

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Dhankuta

Crop: Ginger

Year: 2014/2015

Variety: Nase

Condition : Unirrigated/Main Season

Sowing Time: Falgun

Harvesting Time: Bhadra/Aswin

Particulars	Units	Quantity	Rs/Unit	Total
<u>A. AVERAGE PRODUCTION COST</u>				
1. Variable Cost	Rs.			717948.00
a. Human Labor	Days	138	360.00	49680.00
b. Bullock Labor	Days	6	625.00	3750.00
c. Power Tiller Use	Hours	7	550.00	3850.00
d. Pumpset Use	Hours	7	225.00	1575.00
e. Sprayer Use	Hours	10	25.00	250.00
f. Seed	Kg.	4250	122.00	518500.00
g. Manure	Kg.	13210	1.00	13210.00
h. Fertilizer				
Urea	Kg.	110	24.00	2640.00
D.A.P	Kg.	80	50.00	1920.00
Potash	Kg.	55	36.00	2750.00
i. Plant Protection Chemicals	Rs.			900.00
j. Management Cost	Rs.			6000.00
k. Land Lease	Rs.			36000.00
l. Interest on Variable Cost	Rs.			76923.00
2. Fixed Cost	Rs.			714.00
a. Land Tax	Rs.			168.00
b. Water Tax	Rs.			0.00
c. Repair and Maintenance	Rs.			264.00
d. Depreciation	Rs.			282.00
3. Total Cost	Rs.			718662.00
4. Gross Income at Farm Gate	Rs.			1220802.00
a. Main Product	Kg.	23168.00		1220802.00
i. Fresh Ginger	Kg.	16610.00	40.00	664400.00
ii. Bruni	Kg.	3338.00	49.00	163562.00
iii. Seed	Kg.	3220.00	122.00	392840.00
5. Net Profit at Farm Gate	Rs.			502140.00
6. Production Cost Per Quintal	Rs.			3101.96
i. Fresh Ginger	Rs.			4326.68
ii. Bruni	Rs.			21529.72
iii. Seed	Rs.			22318.70
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
a. Marketing Cost	Rs.			5792.00
b. Value at Market	Kg.	22009.6	90.00	1980864.00
c. Net Profit	Rs.			1256410.00

Note: Cost per Quintal is presented by adding all the three kinds of products shown individually.

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Syangja

Crop: Ginger
Variety: Nase
Sowing Time: Falgun

Year: 2014/2015
Condition : Unirrigated/Main Season
Harvesting Time: Bhadra/Aswin

Particulars	Units	Quantity	Rs/Unit	Total
<u>A. AVERAGE PRODUCTION COST</u>				
1. Variable Cost	Rs.			721610.40
a. Human Labor	Days	137	450.00	61650.00
b. Bullock Labor	Days	5	700.00	3500.00
c. Power Tiller Use	Hours	8	550.00	4400.00
d. Pumpset Use	Hours	7	250.00	1750.00
e. Sprayer Use	Hours	11	20.00	220.00
f. Seed	Kg.	4250	120.00	510000.00
g. Manure	Kg.	13175	1.00	13175.00
h. Fertilizer				
Urea	Kg.	100	24.00	2400.00
D.A.P	Kg.	75	51.00	1800.00
Potash	Kg.	50	40.00	2550.00
i. Plant Protection Chemicals	Rs.			850.00
j. Management Cost	Rs.			6000.00
k. Land Lease	Rs.			36000.00
l. Interest on Variable Cost	Rs.			77315.40
2. Fixed Cost	Rs.			717.00
a. Land Tax	Rs.			135.00
b. Water Tax	Rs.			0.00
c. Repair and Maintenance	Rs.			276.00
d. Depreciation	Rs.			306.00
3. Total Cost	Rs.			722327.40
4. Gross Income at Farm Gate	Rs.			1208560.00
a. Main Product	Kg.	23130.00		1208560.00
i. Fresh Ginger	Kg.	16600.00	40.00	664000.00
ii. Bruni	Kg.	3320.00	48.00	159360.00
iii. Seed	Kg.	3210.00	120.00	385200.00
5. Net Profit at Farm Gate	Rs.			486232.60
6. Production Cost Per Quintal	Rs.			3122.90
i. Fresh Ginger	Rs.			4351.37
ii. Bruni	Rs.			21756.85
iii. Seed	Rs.			22502.41
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
a. Marketing Cost	Rs.			5782.50
b. Value at Market	Kg.	21973.5	90.00	1977615.00
c. Net Profit	Rs.			1249505.10

Note: Cost per Quintal is presented by adding all the three kinds of products shown individually.

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Rukum

Crop: Turmeric

Year: 2014/2015

Variety: Nepali Local

Condition : Unirrigated/Main Season

Sowing Time: Magh/Falgun

Harvesting Time: Shrawan/Bhadra

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
<u>A. AVERAGE PRODUCTION COST</u>				
1. Variable Cost	Rs.			198528.46
a. Human Labor	Days	139	350.00	48650.00
b. Bullock Labor	Days	14	580.00	8120.00
c. Power Tiller Use	Hours			0.00
d. Pumpset Use	Hours			0.00
e. Sprayer Use	Hours	8	21.00	168.00
f. Seed	Kg.	2100	50.00	105000.00
g. Manure	Kg.	3853	1.00	3853.00
h. Fertilizer				
Urea	Kg.			0.00
D.A.P	Kg.			0.00
Potash	Kg.			0.00
i. Plant Protection Chemicals	Rs.			500.00
j. Land Lease	Rs.			3000.00
k. Management Cost	Rs.			18000.00
l. Interest on Variable Cost	Rs.			11237.46
2. Fixed Cost	Rs.			457.00
a. Land Tax	Rs.			105.00
b. Water Tax	Rs.			
c. Repair and Maintenance	Rs.			164.00
d. Depreciation	Rs.			188.00
3. Total Cost	Rs.			198985.46
4. Gross Income at Farm Gate	Rs.			328900.00
a. Main Product	Kg.	14950	22.00	328900.00
5. Net Profit at Farm Gate	Rs.			129914.54
6. Production Cost per Quintal	Rs.			1331.01
<u>B. MARKETING AT NEAREST WHOLESAL MARKET</u>				
a. Marketing Cost	Rs.			3737.50
b. Value at Market	Kg.	14202.50	24.50	347961.25
c. Net Profit	Rs.			145238.29

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Gorkha

Crop: Turmeric

Year: 2014/2015

Variety: Nepali Local

Condition : Unirrigated/Main Season

Sowing Time: Magh/Falgun

Harvesting Time: Shrawan/Bhadra

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
<u>A. AVERAGE PRODUCTION COST</u>				
1. Variable Cost	Rs.			194353.33
a. Human Labor	Days	135	375.00	50625.00
b. Bullock Labor	Days	15	700.00	10500.00
c. Power Tiller Use	Hours			0.00
d. Pumpset Use	Hours			0.00
e. Sprayer Use	Hours	10	20.00	200.00
f. Seed	Kg.	2050	50.00	102500.00
g. Manure	Kg.	4138	1.00	4138.00
h. Fertilizer				
Urea	Kg.			0.00
D.A.P	Kg.			0.00
Potash	Kg.			0.00
i. Plant Protection Chemicals	Rs.			650.00
j. Land Lease	Rs.			18000.00
k. Management Cost	Rs.			3000.00
l. Interest on Variable Cost	Rs.			4740.33
2. Fixed Cost	Rs.			454.00
a. Land Tax	Rs.			84.00
b. Water Tax	Rs.			
c. Repair and Maintenance	Rs.			180.00
d. Depreciation	Rs.			190.00
3. Total Cost	Rs.			194807.33
4. Gross Income at Farm Gate	Rs.			386250.00
a. Main Product	Kg.	15450	25.00	386250.00
5. Net Profit at Farm Gate	Rs.			191442.68
6. Production Cost per Quintal	Rs.			1260.89
<u>B. MARKETING AT NEAREST WHOLESAL MARKET</u>				
a. Marketing Cost	Rs.			3862.50
b. Value at Market	Kg.	14677.50	27.00	396292.50
c. Net Profit	Rs.			197622.68

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Okhaldhunga

Crop: Turmeric

Year: 2014/2015

Variety: Nepali Local

Condition : Unirrigated/Main Season

Sowing Time: Magh/Falgun

Harvesting Time: Shrawan/Bhadra

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
<u>A. AVERAGE PRODUCTION COST</u>				
1. Variable Cost	Rs.			206817.33
a. Human Labor	Days	126	375.00	47250.00
b. Bullock Labor	Days	15	600.00	9000.00
c. Power Tiller Use	Hours			0.00
d. Pumpset Use	Hours			0.00
e. Sprayer Use	Hours	8	20.00	160.00
f. Seed	Kg.	2000	60.00	120000.00
g. Manure	Kg.	3763	1.00	3763.00
h. Fertilizer				
Urea	Kg.			0.00
D.A.P	Kg.			0.00
Potash	Kg.			0.00
i. Plant Protection Chemicals	Rs.			600.00
j. Land Lease	Rs.			18000.00
k. Management Cost	Rs.			3000.00
l. Interest on Variable Cost	Rs.			5044.33
2. Fixed Cost	Rs.			444.00
a. Land Tax	Rs.			90.00
b. Water Tax	Rs.			
c. Repair and Maintenance	Rs.			174.00
d. Depreciation	Rs.			180.00
3. Total Cost	Rs.			207261.33
4. Gross Income at Farm Gate	Rs.			371565.00
a. Main Product	Kg.	16155	23.00	371565.00
5. Net Profit at Farm Gate	Rs.			164303.68
6. Production Cost per Quintal	Rs.			1282.95
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
a. Marketing Cost	Rs.			4038.75
b. Value at Market	Kg.	15347.25	25.50	391354.88
c. Net Profit	Rs.			180054.80

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Dadeldhura

Crop: Turmeric

Year: 2014/2015

Variety: Nepali Local

Condition : Unirrigated/Main Season

Sowing Time: Magh/Falgun

Harvesting Time: Shrawan/Bhadra

<u>Particulars</u>	<u>Units</u>	<u>Quantity</u>	<u>Rs/Unit</u>	<u>Total</u>
<u>A. AVERAGE PRODUCTION COST</u>				
1. Variable Cost	<u>Rs.</u>			194079.65
a. Human Labor	Days	136	345.00	46920.00
b. Bullock Labor	Days	15	580.00	8700.00
c. Power Tiller Use	Hours			0.00
d. Pumpset Use	Hours			0.00
e. Sprayer Use	Hours	11	20.00	220.00
f. Seed	Kg.	2090	60.00	125400.00
g. Manure	Kg.	3956	1.00	3956.00
h. Fertilizer				
Urea	Kg.			0.00
D.A.P	Kg.			0.00
Potash	Kg.			0.00
i. Plant Protection Chemicals	Rs.			575.00
j. Land Lease	Rs.			575.00
k. Management Cost	Rs.			3000.00
l. Interest on Variable Cost	Rs.			4733.65
2. Fixed Cost	<u>Rs.</u>			470.00
a. Land Tax	Rs.			106.00
b. Water Tax	Rs.			
c. Repair and Maintenance	Rs.			174.00
d. Depreciation	Rs.			190.00
3. Total Cost	<u>Rs.</u>			194549.65
4. Gross Income at Farm Gate	<u>Rs.</u>			406725.00
a. Main Product	Kg.	15950	25.50	406725.00
5. Net Profit at Farm Gate	<u>Rs.</u>			212175.35
6. Production Cost per Quintal	<u>Rs.</u>			1219.75
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
a. Marketing Cost	<u>Rs.</u>			3987.50
b. Value at Market	<u>Kg.</u>	15152.50	27.50	416693.75
c. Net Profit	<u>Rs.</u>			218156.60

Commercial Crops

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Dhankuta

Crop: Cardamom

Variety: Ramsai

Planting Time: Jestha/Shrawan

Year: 2014/2015

Condition : Irrigated/Main Season

Harvesting Time: Magh/Falgun

Years	1-3 Years			4-5 Years			6 Years Onwards			
	Units	Quantity	Rs/Unit	Total	Quantity	Rs/Unit	Total	Quantity	Rs/Unit	Total
A. AVERAGE PRODUCTION COST										
1. Variable Cost										
a. Human Labor	Rs.	315	360.00	298726.40	250	396.00	215991.17	275	435.60	238993.34
b. Bullock Labor	Days	0	0.00	113400.00	0	0.00	99000.00	0	0.00	119790.00
c. Power Tiller Use	Hours	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
d. Pumpset Use	Hours	50	225.00	11250.00	50	247.50	12375.00	50	272.25	13612.50
e. Sprayer Use	Hours	30	25.00	750.00	30	27.50	825.00	30	30.25	907.50
f. Plant Numbers	No.	6000	12.00	72000.00	6000	13.20	79200.00	12000	1.21	14520.00
g. Manure	Kg.	16000	1.00	16000.00	12000	1.10	13200.00	12000	1.21	14520.00
h. Fertilizer										
Urea	Kg.	120	24.00	2880.00	80	26.40	2112.00	80	29.04	2323.20
D.A.P	Kg.	60	50.00	1440.00	45	55.00	1188.00	45	60.50	1306.80
Potash	Kg.	60	36.00	3000.00	40	39.60	2200.00	40	43.56	2420.00
i. Plant Protection Chemicals	Rs.			4000.00			4400.00			4840.00
j. Land Lease	Rs.			36000.00			39600.00			43560.00
k. Management Cost	Rs.			6000.00			6600.00			7260.00
l. Interest on Variable Cost	Rs.			32006.40			26571.17			28453.34
2. Fixed Cost	Rs.			714.00			785.40			863.94
a. Land Tax	Rs.			168.00			184.80			203.28
b. Water Tax	Rs.			0.00			0.00			0.00
c. Repair and Maintenance	Rs.			264.00			290.40			319.44
d. Depreciation	Rs.			282.00			310.20			341.22
3. Total Cost	Rs.			299440.40			216776.57			239857.28
4. Gross Income at Farm Gate	Rs.			0.00			346500.00			1651650.00
a. Main Product	Kg.		2100.00	0.00	150	2310.00	346500.00	650	2541.00	1651650.00
5. Net Profit at Farm Gate	Rs.						129723.43			1411792.72
6. Production Cost Per Quintal	Rs.						144517.71			36901.12
B. MARKETING AT NEAREST WHOLESALE MARKET										
a. Marketing Cost	Rs.						18.00			78.00
b. Value at Market	Kg.		2300.00		127.5	2530.00	322575.00	552.5	2783.00	1537607.50
c. Net Profit	Rs.						105780.43			1297672.22

Note: The study is carried in plantation year, 2-3 years, 4-5 years' old orchard and 5-10 years old orchard. The variable and fixed costs and market prices operation cost of the 1st year is reported as per the current fiscal year prices. However quantities of variables used are reported as per the survey and the prices has been reported as 10% raise in 4-5th years and 10% raise in 6th-10th years. As reported in the survey, full production is achieved only after 5th year and on the 4-5th year only 20% production can be achieved.

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Illam

Crop: Cardamom

Year: 2014/2015

Variety: Ramsai

Condition : Irrigated/Main Season

Planting Time: Jestha/Shrawan

Harvesting Time: Magh/Falgun

Particulars	Units	1-3 Years			4-5 Years			6 Years Onwards		
		Quantity	Rs/Unit	Total	Quantity	Rs/Unit	Total	Quantity	Rs/Unit	Total
A. AVERAGE PRODUCTION COST										
1. Variable Cost	Rs.			302349.60			21762.55			240410.19
a. Human Labor	Days	312	375.00	117000.00	245	412.50	101062.50	268	453.75	121605.00
b. Bullock Labor	Days	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
c. Power Tiller Use	Hours	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
d. Pumpset Use	Hours	52	225.00	117000.00	52	247.50	128700.00	52	272.25	141570.00
e. Sprayer Use	Hours	32	20.00	6400.00	32	22.00	704.00	32	24.20	774.40
f. Plant Numbers	No.	6000	12.00	72000.00	600	13.20	7920.00			0.00
g. Manure	Kg.	15850	1.00	15850.00	11855	1.10	13040.50	11855	1.21	14344.55
h. Fertilizer										
Urea	Kg.	110	25.00	2750.00	75	27.50	2062.50	75	30.25	2268.75
D.A.P	Kg.	60	53.00	1500.00	40	58.30	1100.00	40	64.13	1210.00
Potash	Kg.	55	36.00	2915.00	35	39.60	2040.50	35	43.56	2244.55
i. Plant Protection Chemicals	Rs.			36000.00			39600.00			43560.00
j. Land Lease	Rs.			6000.00			6600.00			7260.00
k. Management Cost	Rs.			32394.60			26802.55			28629.94
l. Interest on Variable Cost	Rs.			763.00			839.30			923.23
2. Fixed Cost	Rs.			172.00			189.20			208.12
a. Land Tax	Rs.			0.00			0.00			0.00
b. Water Tax	Rs.			276.00			303.60			333.96
c. Repair and Maintenance	Rs.			315.00			348.50			381.15
d. Depreciation	Rs.			303112.60			218601.85			241333.42
3. Total Cost	Rs.			0.00			334950.00			1621158.00
4. Gross Income at Farm Gate	Rs.			0.00			334950.00			1621158.00
a. Main Product	Kg.		2100.00	0.00	145	2310.00	638	2541.00		1379824.58
5. Net Profit at Farm Gate	Rs.						116348.15			37826.55
6. Production Cost Per Quintal	Rs.						150759.90			
B. MARKETING AT NEAREST WHOLESALE MARKET										
a. Marketing Cost	Rs.						17.40			76.56
b. Value at Market	Kg.		2300.00		123.25	2530.00	542.3	2783.00		1509220.90
c. Net Profit	Rs.						93203.25			1267810.92

Note: The study is carried in plantation year, 2-3 years, 4-5 years' old orchard and 5-10 years old orchard. The variable and fixed costs and market prices operation cost of the 1st year is reported as per the current fiscal year prices. However quantities of variables used are reported as per the survey and the prices has been reported as 10% raise in 4-5th years and 10% raise in 6th-10th years. As reported in the survey, full production is achieved only after 5th year and on the 4-5th year only 20% production can be achieved.

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Sindhupalchok

Crop: Tea

Variety: Tagda-78/383/246, Gumti, Fusring,
Ambari, Benigan and Musakande

Year: 2014/2015

Condition: Unirrigated/Harvesting

Particular	Unit	Establishment Year		Average 3rd Year		Average 4-5 Years		Average 6-15 years		
		Quantity	Price	Value in Rs.	Quantity	Price	Value in Rs.	Quantity	Price	Value in Rs.
A. AVERAGE PRODUCTION COST										
1. Variable Cost	Rs.			452166.40		119039.97		99322.92		150419.51
a. Human Labour	Day	300.00	375.00	112500.00	40.00	393.75	15750.00	55.00	412.50	22956.25
b. Tea Plucking Labour	Day		200.00	0.00	68.00	210.00	14280.00	125.00	220.00	27250.00
c. Irrigation Charge	Rs.			3000.00			3000.00			3000.00
d. Sprayer Use	Hour	20.00	20.00	400.00	22.00	21.00	462.00	25.00	22.00	550.00
e. Plants	No.	11500.00	20.00	230000.00	950.00	21.00	19950.00	500.00	22.00	11000.00
f. Manure	K.G.	5600.00	1.00	5600.00	1250.00	1.05	1312.50	1250.00	1.10	1375.00
g. Fertilizer	K.G.									
DAP	K.G.	120.00	52.00	6240.00	60.00	54.60	3276.00	60.00	57.20	3432.00
Urea	K.G.	60.00	25.00	1500.00	30.00	26.25	787.50	30.00	27.50	825.00
Potash	K.G.	40.00	37.00	1480.00	20.00	38.85	777.00	20.00	40.70	814.00
h. Plant Protection Chemicals	Rs.			3000.00			4000.00			4400.00
i. Management Cost	Rs.			10000.00			6000.00			6600.00
j. Land Lease	Rs.			30000.00			31500.00			31575.00
k. Interest on Variable Cost	Rs.			48446.40			17944.97			12564.42
2. Fixed Cost	Rs.			711.00			746.55			782.10
a. Land Tax	Rs.			165.00			173.25			181.50
b. Water Tax	Rs.			0.00			0.00			0.00
c. Depreciation of Farm Equipment	Rs.			267.00			280.35			293.70
d. Repair & Maintenance of Farm Equipment	Rs.			279.00			292.95			306.90
3. Total Cost	Rs.			452877.40			119786.52			100105.02
4. Gross Income at Farm Gate	Rs.			0.00			36225.00			75900.00
a. Green Tea	K.G.	0.00	30.00		1150.00	31.50	36225.00	2300.00	33.00	75900.00
5. Gross Profit at Farm Gate	Rs.			-452877.40			-83561.52			-24205.02
6. Production Cost Per Quintal	Rs.						103.16			42.52

Note: The study is carried in plantation year, 2-3 years, 4-5 years' old orchard and 5-10 years old orchard. The variable and fixed costs and market prices operation cost of the 1st year is reported as per the current fiscal year prices. However quantities of variables used are reported as per the survey and the prices has been reported as 5% raise in 2-3 years and 10% raise in 4-10 years. As far as the production is regarded, full production is harvested only after 5th year and the 4-5th year only 75% production can be achieved as per the field survey and the cutting should be done each 5th consecutive year.

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Illam

Crop: Tea

Variety: T.V Series, Hilika, Manohari,
Nagarjuli, Tinali

Year: 2014/2015

Condition: Unirrigated

Particular	Unit	Establishment Year			Average 3rd Year			Average 4-5 Years			Average 6-15 years		
		Quantity	Price	Value in Rs.	Quantity	Price	Value in Rs.	Quantity	Price	Value in Rs.	Quantity	Price	Value in Rs.
A. AVERAGE PRODUCTION COST													
1. Variable Cost	Rs.			417061.12			109792.58			98784.72			168329.27
a. Human Labour	Day	350.00	360.00	126000.00	45.00	378.00	17010.00	60.00	396.00	23760.00	60.00	435.60	26136.00
b. Tea Plucking Labour	Day		200.00	0.00	75.00	210.00	15750.00	140.00	220.00		225.00	242.00	54450.00
c. Irrigation Charge	Rs.			3000.00			3000.00			3500.00			5000.00
d. Sprayer Use	Hour	22.00	25.00	550.00	25.00	26.25	656.25	28.00	27.50	770.00	30.00	30.25	907.50
e. Plants	No.	11700.00	15.00	175500.00	97.00	15.75	1527.75	97.00	16.50	1600.50			
f. Manure	K.G.	7850.00	1.00	7850.00	1450.00	1.05	1522.50	1450.00	1.10	1595.00	1450.00	1.21	1754.50
g. Fertilizer	K.G.												
DAP	K.G.	130.00	50.00	6500.00	65.00	52.50	3412.50	65.00	55.00	3575.00	65.00	60.50	3932.50
Urea	K.G.	70.00	24.00	1680.00	35.00	25.20	882.00	35.00	26.40	924.00	35.00	29.04	1016.40
Potash	K.G.	36.00	36.00	1296.00	18.00	37.80	680.40	18.00	39.60	712.80	18.00	43.56	784.08
h. Plant Protection Chemicals	Rs.			4000.00			5000.00			5500.00			6050.00
i. Management Cost	Rs.			10000.00			6000.00			6600.00			7260.00
j. Land Lease	Rs.			36000.00			37800.00			37890.00			41679.00
k. Interest on Variable Cost	Rs.			44685.12			16551.18			12357.42			19359.29
2. Fixed Cost	Rs.			714.00			749.70			785.40			863.94
a. Land Tax	Rs.			168.00			176.40			184.80			203.28
b. Water Tax	Rs.			0.00			0.00						
c. Depreciation of Farm Equipment	Rs.			264.00			277.20			290.40			319.44
d. Repair & Maintenance of Farm Equipment	Rs.			282.00			296.10			310.20			341.22
3. Total Cost	Rs.			417775.12			110542.28			99570.12			169193.21
4. Gross Income at Farm Gate	Rs.			0.00			33783.75			70785.00			445945.50
a. Green Tea	K.G.	0.00	27.50	0.00	1170.00	28.88	33783.75	2340.00	30.25	70785	14040.00	31.76	445945.5
5. Gross Profit at Farm Gate	Rs.			-417775.12			-76758.53			-28785.12			276752.29
6. Production Cost Per Quintal	Rs.						93.48			41.55			11.05

Note: The study is carried in plantation year, 2-3 years, 4-5 years' old orchard and 5-10 years old orchard. The variable and fixed costs and market prices operation cost of the 1st year is reported as per the current fiscal year prices. However quantities of variables used are reported as per the survey and the prices has been reported as 5% raise in 2-3 years and 10% raise in 4-10 years. As far as the production is regarded, full production is harvested only after 5th year and the 4-5th year only 75% production can be achieved as per the field survey and the cutting should be done each 5th consecutive year.

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Palpa

Crop: Coffee
Variety: Robusta

Year: 2014/2015
Condition: Unirrigated

Particular	Unit	Establishment Year		Average 2-3 Years		Average 4-5 Years		Average 6-10 years				
		Quantity	Price	Value in Rs.	Quantity	Price	Value in Rs.	Quantity	Price	Value in Rs.		
A. AVERAGE PRODUCTION COST												
1. Variable Cost	Rs.			21729.60		119811.95		122304.08		136195.46		
a. Human Labour	Day	275.00	375.00	103125.00	80.00	393.75	31500.00	33000.00	80.00	453.75	36300.00	
b. Irrigation Charge	Rs.			3000.00			3000.00				5000.00	
c. Sprayer Use	Hour	8.00	20.00	160.00	20.00	21.00	420.00	22.00	20.00	440.00	24.20	774.40
d. Plants	No.	2100.00	10.00	21000.00	210.00	10.50	2205.00	11.00	210.00	2310.00		
e. Manure	K.G.	6000.00	1.00	6000.00	6600.00	1.05	6930.00	1.10	7480.00	7200.00	1.21	8712.00
f. Fertilizer	K.G.											
DAP	K.G.	50.00	53.00	2650.00	75.00	55.65	4173.75	58.30	75.00	4372.50	64.13	7374.95
Urea	K.G.	60.00	25.00	1500.00	90.00	26.25	2362.50	27.50	90.00	2475.00	30.25	4083.75
Polash	K.G.	70.00	36.00	2520.00	50.00	37.80	1890.00	39.60	50.00	1980.00	43.56	2178.00
g. Plant Protection Chemicals	Rs.			8000.00			11000.00			11000.00		11000.00
h. Management Cost	Rs.			10000.00			5000.00			5000.00		5000.00
i. Land Lease				36000.00			36000.00			36000.00		39600.00
j. Interest on Variable Cost	Rs.			23274.60			15330.70			14746.58		16172.36
2. Fixed Cost	Rs.			632.00			663.60			695.20		764.72
a. Land Tax	Rs.			146.00			153.30			160.60		176.66
b. Water Tax	Rs.			0.00			0.00					
c. Depreciation of Farm Equipment	Rs.			210.00			220.50			231.00		254.10
d. Repair & Maintenance of Farm Equipment	Rs.			276.00			289.80			303.60		333.96
3. Total Cost	Rs.			217861.60			120475.55			122999.28		136960.18
4. Gross Income at Farm Gate	Rs.			0.00			57330.00			166036.50		239396.85
a. Main Product	K.G.	0.00	60.00	0.00	910.00	63.00	57330.00	66.15	2510.00	166036.5	72.77	239396.85
5. Gross Profit at Farm Gate	Rs.			-217861.60			-63145.55			43037.22		102436.67
6. Production Cost Per Quintal	Rs.									48.00		40.63

Note: The study is carried in plantation year, 2-3 years, 4-5 years' old orchard and 5-10 years old orchard. The variable and fixed costs and market prices operation cost of the 1st year is reported as per the current fiscal year prices. However quantities of variables used are reported as per the survey and the prices has been reported as 5% raise in 2-3 years and 10% raise in 4-10 years. As far as the production is regarded, full production is harvested only after 5th year and the 4-5th year only 75% production can be achieved as per the field survey.

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Gulmi

Crop: Coffee

Variety: Robusta (Organic)

Year: 2014/2015

Condition: Unirrigated

Particular	Unit	Establishment Year		Average 2-3 Years		Average 4-5 Years		Average 6-10 years	
		Quantity	Price	Quantity	Price	Quantity	Price	Quantity	Price
		Value in Rs.	Rs.	Value in Rs.	Rs.	Value in Rs.	Rs.	Value in Rs.	Rs.
A. AVERAGE PRODUCTION COST									
1. Variable Cost	Rs.	340704.00		121702.16		123008.64		132358.21	
a. Human Labour	Day	280.00	375.00	82.00	393.75	82.00	412.50	82.00	453.75
b. Irrigation Charge	Rs.		3000.00		3000.00				5000.00
c. Sprayer Use	Hour	10.00	20.00	24.00	21.00	24.00	22.00	34.00	24.20
d. Plants	No.	2000.00	10.00	200.00	10.50	200.00	11.00	200.00	
e. Manure	K.G.	120000.00	1.00	13200.00	1.05	13860.00	1.10	14960.00	1.21
f. Fertilizer	K.G.								
DAP	K.G.								
Urea	K.G.								
Potash	K.G.								
g. Plant Protection Chemicals	Rs.		10000.00		12000.00		12000.00		12000.00
h. Management Cost	Rs.		10000.00		5000.00		5000.00		5000.00
i. Land Lease			36000.00		36000.00		36000.00		36000.00
j. Interest on Variable Cost	Rs.		36504.00		16950.66		14995.64		15787.91
2. Fixed Cost	Rs.	723.00		759.15		795.30		874.83	
a. Land Tax	Rs.		165.00		173.25		181.50		199.65
b. Water Tax	Rs.		0.00		0.00				
c. Depreciation of Farm Equipment	Rs.		285.00		299.25		313.50		344.85
d. Repair & Maintenance of Farm Equipment	Rs.		273.00		286.65		300.30		330.33
3. Total Cost	Rs.	341427.00		122461.31		123803.94		133233.04	
4. Gross Income at Farm Gate	Rs.	0.00		60742.50		175573.13		25799.29	
a. Main Product	K.G.	0.00	65.00	890.00	68.25	890.00	71.66	3245.00	78.83
5. Gross Profit at Farm Gate	Rs.	-341427.00		-61718.81		51769.19		122566.25	
6. Production Cost Per Quintal	Rs.								40.06

Note: The study is carried in plantation year, 2-3 years, 4-5 years' old orchard and 5-10 years old orchard. The variable and fixed costs and market prices operation cost of the 1st year is reported as per the current fiscal year prices. However quantities of variables used are reported as per the survey and the prices has been reported as 5% raise in 2-3 years and 10% raise in 4-10 years. As far as the production is regarded, full production is harvested only after 5th year and the 4-5th year only 75% production can be achieved as per the field survey.

AVERAGE PRODUCTION COST & NET PROFIT PER HECTARE DISTRICT: Jhapa

Crop: Bettle Nut

Variety: Mohitnagar - 1000, Ecola - 250

Year: 2014/2015

Condition: Irrigated

Particular	Unit	Establishment Year			Average 2-3 Years			Average 4-5 Years			Average 6-10 Years		
		Quantity	Price	Value in Rs.	Quantity	Price	Value in Rs.	Quantity	Price	Value in Rs.	Quantity	Price	Value in Rs.
A. AVERAGE PRODUCTION COST													
1. Variable Cost	Rs.			241858.40			100745.33			104969.19			116898.87
a. Human Labour	Day	300.00	375.00	112500.00	40.00	393.75	15750.00	40.00	412.50	16500.00	40.00	453.75	18150.00
b. Tractor Use	Hour	10.00	1100.00	3000.00									
c. Pumpset Use	Hour	15.00	200.00	3000.00	20.00	210.00	4200.00	25.00	220.00	5500.00	30.00	242.00	7260.00
d. Plants	No.	1050.00	30.00	31500.00	105.00	31.50	3307.50	10.50	33.00	346.50			
e. Manure	K.G.	1170.00	1.00	1170.00	1800.00	1.05	1890.00	3600.00	1.10	3960.00	4500.00	1.21	5445.00
f. Fertilizer	K.G.												
DAP	K.G.	65.00	53.00	3445.00	35.00	55.65	1947.75	35.00	58.30	2040.50	35.00	64.13	2244.55
Urea	K.G.	40.00	25.00	1000.00	20.00	26.25	525.00	20.00	27.50	550.00	20.00	30.25	605.00
Potash	K.G.	30.00	36.00	1080.00	15.00	37.80	567.00	15.00	39.60	594.00	15.00	43.56	653.40
Micro nutrients	K.G.	45.00	150.00	6750.00	25.00	157.50	3937.50	25.00	165.00	4125.00	25.00	181.50	4537.50
g. Plant Protection Chemicals	Rs.			2000.00			3000.00			4000.00			4000.00
h. Management Cost	Rs.			10000.00			7500.00			7875.00			8662.50
i. Land Lease	Rs.			40500.00			44550.00			46777.50			51455.25
j. Interest on Variable Cost	Rs.			25913.40			13570.58			12700.69			13885.67
2. Fixed Cost	Rs.			723.00			759.15			795.30			874.83
a. Land Tax	Rs.			165.00			173.25			181.50			199.65
b. Water Tax	Rs.			0.00			0.00			0.00			0.00
c. Depreciation of Farm Equipment	Rs.			285.00			299.25			313.50			344.85
d. Repair & Maintenance of Farm Equipment	Rs.			273.00			286.65			300.30			330.33
3. Total Cost	Rs.			242581.40			101504.48			105764.49			117773.70
4. Gross Income at Farm Gate	Rs.			0.00			19635.00			101871.00			280145.25
a. Main Product (Fresh)	K.G.			0.00	850.00	23.10	19635.00	4200.00	24.26	101871.00	10500.00	26.68	280145.25
5. Gross Profit at Farm Gate	Rs.			-242581.40			-81869.48			-3893.49			162371.55
6. Production Cost Per Quintal (Fresh)	Rs.						118.42			24.18			10.22
7. Production Cost Per Quintal (Dried)	Rs.						597.09			125.91			56.08
B. MARKETING AT NEAREST WHOLESALE MARKET													
a. Marketing Cost	Rs.			0.00			425.00			2100.00			5250.00
b. Value at Market (Dried)	Kg.			225.00	170	236.25	40162.50	840	248.06	208372.50	2100	272.87	573024.38
c. Net Profit	Rs.			-242581.40			-61766.98			100508.01			450000.68

Note: The study is carried in plantation year, 2-3 years, 4-5 years' old orchard and 5-10 years old orchard. The variable and fixed costs and market prices operation cost of the 1st year is reported as per the current fiscal year prices. However quantities of variables used are reported as per the survey and the prices has been reported as 5% raise in 2-5 years and 10% raise in 6-10 years. As far as the production is regarded, full production is harvested only after 5th year

AVERAGE PRODUCTION COST & NET PROFIT

DISTRICT: Kathmandu

Crop: Mushroom

Year: 2014/2015

Variety: Agaricus Bisporus (Gobre)

Condition : 20ft X 40 ft tunnel

COP for one ropani=Three Plastic shed

Particulars	Units	Quantity	Rs/Unit	Total
<u>A. AVERAGE PRODUCTION COST</u>				
1. Variable Cost	Rs.			50284.00
a. Human Labor	Days			
Shed Making Labors	Days	6	650.00	3900.00
Field Labors	Days	20	425.00	8500.00
b. Straw	Kg.	500	20.00	10000.00
Plastic Sheet	Kg.	10	260.00	2600.00
d. Bamboo	No.	26	200.00	5200.00
e. Pumpset Use	Hours	25	25.00	625.00
f. Sprayer Use	Hours	15	20.00	300.00
g. Seed Spores	Bottle	60	50.00	3000.00
h. Compost	Kg.	300	7.00	2100.00
i. Fertilizer				
Urea	Kg.	5	25.00	125.00
D.A.P	Kg.	12	45.00	300.00
Amonium Sulfate	Kg.	20	30.00	900.00
Lime	Kg.	40	8.00	1200.00
j. Machinery Equipment Charges	Rs.			1000.00
k. Plant Protection Chemicals	Rs.			1600.00
l. Management Cost	Rs.			3000.00
m. Land Lease	Rs.			3000.00
n. Others	Rs.			1000.00
o. Interest on Variable Cost	Rs.			1934.00
2. Fixed Cost	Rs.			760.00
a. Land Tax	Rs.			20.00
b. Water Tax	Rs.			0.00
c. Electricity Charge	Unit	45	10	450.00
d. Repair and Maintenance	Rs.			150.00
e. Depreciation	Rs.			140.00
3. Total Cost	Rs.			51044.00
4. Gross Income at Farm Gate	Rs.			75270.00
a. Main Product	Kg.	325	230.00	74750.00
b. Manure as Bi-Product	Kg.	260	2.00	520.00
5. Net Profit at Farm Gate	Rs.			24226.00
6. Production Cost Per Quintal	Rs.			15705.85
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
a. Marketing Cost	Rs.			162.50
b. Value at Market	Kg.	308.75	260.00	80275.00
c. Net Profit	Rs.			29588.50

Note: Mushroom is ready to harvest from 4th and lasts till 8th weeks of the preparation of manure. Three Tunnels can be made in a Ropani of land & can be used for two consecutive years after some maintenance. Cost per Quintal seems higher in the first year due to the shed construction.

AVERAGE PRODUCTION COST & NET PROFIT

DISTRICT: Lalitpur

Crop: Mushroom

Year: 2014/2015

Variety: Agaricus Bisporus (Gobre)

Condition : 20ft X 40 ft tunnel

COP for one ropani=Three Plastic shed

Particulars	Units	Quantity	Rs/Unit	Total
<u>A. AVERAGE PRODUCTION COST</u>				
<u>1. Variable Cost</u>	<u>Rs.</u>			47580.00
a. Human Labor	Days			
Shed Making Labors	Days	6	600.00	3600.00
Field Labors	Days	19	450.00	8550.00
b. Straw	Kg.	525	18.00	9450.00
c. Plastic Sheet	Kg.	10	260.00	2600.00
d. Bamboo	No.	30	180.00	5400.00
e. Pumpset Use	Hours	10	25.00	250.00
f. Sprayer Use	Hours	15	25.00	375.00
g. Seed Spores	Bottle	58	50.00	2900.00
h. Compost	Kg.	310	5.00	1550.00
i. Fertilizer				
Urea	Kg.	4	25.00	100.00
D.A.P	Kg.	11	50.00	275.00
Amonium Sulfate	Kg.	18	30.00	900.00
Lime	Kg.	35	8.00	1050.00
j. Machinery Equipment Charges	Rs.			950.00
k. Plant Protection Chemicals	Rs.			1450.00
l. Management Cost	Rs.			2500.00
m. Land Lease	Rs.			3000.00
n. Others	Rs.			850.00
o. Interest on Variable Cost	Rs.			1830.00
<u>2. Fixed Cost</u>	<u>Rs.</u>			690.00
a. Land Tax	Rs.			20.00
b. Water Tax	Rs.			0.00
c. Electricity Charge	Unit	40	10	400.00
d. Repair and Maintenance	Rs.			140.00
e. Depreciation	Rs.			130.00
<u>3. Total Cost</u>	<u>Rs.</u>			48270.00
<u>4. Gross Income at Farm Gate</u>	<u>Rs.</u>			74072.50
a. Main Product	Kg.	320	230.00	73600.00
b. Manure as Bi-Product	Kg.	270	1.75	472.50
<u>5. Net Profit at Farm Gate</u>	<u>Rs.</u>			25802.50
<u>6. Production Cost Per Quintal</u>	<u>Rs.</u>			15084.38
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
<u>a. Marketing Cost</u>	<u>Rs.</u>			160.00
<u>b. Value at Market</u>	<u>Kg.</u>	304	260.00	79040.00
<u>c. Net Profit</u>	<u>Rs.</u>			31082.50

Note: Mushroom is ready to harvest from 4th and lasts till 8th weeks of the preparation of manure. Three Tunnels can be made in a Ropani of land & can be used for two consecutive years after some maintenance. Cost per Quintal seems higher in the first year due to the shed construction.

AVERAGE PRODUCTION COST & NET PROFIT

DISTRICT: Kavrepalanchok

Crop: Mushroom

Year: 2014/2015

Variety: Agaricus Bisporus (Gobre)

Condition : 20ft X 40 ft tunnel

COP for one ropani=Three Plastic shed

Particulars	Units	Quantity	Rs/Unit	Total
<u>A. AVERAGE PRODUCTION COST</u>				
<u>1. Variable Cost</u>	<u>Rs.</u>			40092.00
a. Human Labor	Days			
Shed Making Labors	Days	6	575.00	3450.00
Field Labors	Days	19	380.00	7220.00
b. Straw	Kg.	525	12.00	6300.00
c. Plastic Sheet	Kg.	10	265.00	2650.00
d. Bamboo	No.	30	160.00	4800.00
e. Pumpset Use	Hours	8	25.00	200.00
f. Sprayer Use	Hours	16	20.00	320.00
g. Seed Spores	Bottle	61	55.00	3355.00
h. Compost	Kg.	320	4.00	1280.00
i. Fertilizer				
Urea	Kg.	5	24.00	120.00
D.A.P	Kg.	10	50.00	240.00
Amonium Sulfate	Kg.	16	29.00	800.00
Lime	Kg.	35	8.50	1015.00
j. Machinery Equipment Charges	Rs.			900.00
k. Plant Protection Chemicals	Rs.			1250.00
l. Management Cost	Rs.			2000.00
m. Land Lease	Rs.			1800.00
n. Others	Rs.			850.00
o. Interest on Variable Cost	Rs.			1542.00
<u>2. Fixed Cost</u>	<u>Rs.</u>			569.00
a. Land Tax	Rs.			19.00
b. Water Tax	Rs.			0.00
c. Electricity Charge	Unit	30	10	300.00
d. Repair and Maintenance	Rs.			130.00
e. Depreciation	Rs.			120.00
<u>3. Total Cost</u>	<u>Rs.</u>			40661.00
<u>4. Gross Income at Farm Gate</u>	<u>Rs.</u>			70940.00
a. Main Product	Kg.	328	215.00	70520.00
b. Manure as Bi-Product	Kg.	280	1.50	420.00
<u>5. Net Profit at Farm Gate</u>	<u>Rs.</u>			30279.00
<u>6. Production Cost Per Quintal</u>	<u>Rs.</u>			12396.65
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
<u>a. Marketing Cost</u>	<u>Rs.</u>			164.00
<u>b. Value at Market</u>	<u>Kg.</u>	311.6	245.00	76342.00
<u>c. Net Profit</u>	<u>Rs.</u>			35937.00

Note: Mushroom is ready to harvest from 4th and lasts till 8th weeks of the prepration of manure. Three Tunnels can be made in a Ropani of land & can be used for two consecutive years after some maintaineance. Cost per Quintal seems higher in the first year due to the shed construction.

AVERAGE PRODUCTION COST & NET PROFIT

DISTRICT: Kathmandu

Crop: Mushroom

Year: 2014/2015

Variety: Pleurotus sps. &Leninus sps.(Kanya)

Condition : 12ft X 20 ft tunnel

COP for one ropani= Four Plastic shed

Particulars	Units	Quantity	Rs/Unit	Total
<u>A. AVERAGE PRODUCTION COST</u>				
<u>1. Variable Cost</u>	<u>Rs.</u>			26520.17
a. Human Labor	Days			
Shed Making Labors	Days	5	650.00	1083.33
Field Labors	Days	20	425.00	2833.33
b. Straw	Kg.	760	20.00	5066.67
c. Plastic Sheet	Kg.	12	260.00	1040.00
d. Plastic Bag	Kg.	7	100.00	233.33
d. Bamboo	Gota	25	200.00	1666.67
e. Burning Wood	Kg.	450	10.00	4500.00
f. Pumpset Use	Hours	6	25.00	150.00
g. Sprayer Use	Hours	15	20.00	300.00
h. Seed Spores	Bottle	40	45.00	1800.00
i. Machinery Equipment Charges	Rs.			2000.00
j. Plant Protection Chemicals	Rs.			400.00
k. Management Cost	Rs.			2400.00
k. Land Lease	Rs.			2400.00
m. Interest on Variable Cost	Rs.			646.83
<u>2. Fixed Cost</u>	<u>Rs.</u>			310.00
a. Land Tax	Rs.			20.00
b. Water Tax	Rs.			0.00
c. Electricity Charge	Unit			0.00
d. Repair and Maintenance	Rs.			150.00
e. Depreciation	Rs.			140.00
<u>3. Total Cost</u>	<u>Rs.</u>			26830.17
<u>4. Gross Income at Farm Gate</u>	<u>Rs.</u>			61200.00
a. Main Product	Kg.	680	90.00	61200.00
b. Manure as Bi-Product	Kg.	740	1.75	1295.00
<u>5. Net Profit at Farm Gate</u>	<u>Rs.</u>			34369.83
<u>6. Production Cost Per Quintal</u>	<u>Rs.</u>			3945.61
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
<u>a. Marketing Cost</u>	<u>Rs.</u>			340.00
<u>b. Value at Market</u>	<u>Kg.</u>	646	110.00	71060.00
<u>c. Net Profit</u>	<u>Rs.</u>			45184.83

Note: Mushroom is ready to harvest from 4th and lasts till 8th weeks of the preparation of manure. Three Tunnels can be made in a Ropani of land & can be used for two consecutive years after some maintenance. Cost per Quintal seems higher in the first year due to the shed construction.

AVERAGE PRODUCTION COST & NET PROFIT

DISTRICT: Lalitpur

Crop: Mushroom

Year: 2014/2015

Variety: Pleurotus sps. &Leninus sps.(Kanya)

Condition : 12ft X 20 ft tunnel

COP for one ropani=Three Plastic shed

Particulars	Units	Quantity	Rs/Unit	Total
<u>A. AVERAGE PRODUCTION COST</u>				
<u>1. Variable Cost</u>	<u>Rs.</u>			23491.29
a. Human Labor	Days			
Shed Making Labors	Days	5	600.00	1000.00
Field Labors	Days	19	450.00	2850.00
b. Straw	Kg.	750	18.00	4500.00
c. Plastic Sheet	Kg.	12	260.00	1040.00
d. Plastic Bag	Kg.	7	100.00	233.33
d. Bamboo	Gota	24	180.00	1440.00
e. Burning Wood	Kg.	240	10.00	2400.00
f. Pumpset Use	Hours	5	25.00	125.00
g. Sprayer Use	Hours	15	20.00	300.00
h. Seed Spores	Bottle	41	50.00	2050.00
i. Machinery Equipment Charges	Rs.			1800.00
j. Plant Protection Chemicals	Rs.			380.00
k. Management Cost	Rs.			2400.00
k. Land Lease	Rs.			2400.00
m. Interest on Variable Cost	Rs.			572.96
<u>2. Fixed Cost</u>	<u>Rs.</u>			290.00
a. Land Tax	Rs.			20.00
b. Water Tax	Rs.			0.00
c. Electricity Charge	Unit			0.00
d. Repair and Maintenance	Rs.			140.00
e. Depreciation	Rs.			130.00
<u>3. Total Cost</u>	<u>Rs.</u>			23781.29
<u>4. Gross Income at Farm Gate</u>	<u>Rs.</u>			60300.00
a. Main Product	Kg.	670	90.00	60300.00
b. Manure as Bi-Product	Kg.	730	1.50	1095.00
<u>5. Net Profit at Farm Gate</u>	<u>Rs.</u>			36518.71
<u>6. Production Cost Per Quintal</u>	<u>Rs.</u>			3549.45
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
<u>a. Marketing Cost</u>	<u>Rs.</u>			335.00
<u>b. Value at Market</u>	<u>Kg.</u>	636.5	110.00	70015.00
<u>c. Net Profit</u>	<u>Rs.</u>			46993.71

Note: Mushroom is ready to harvest from 4th and lasts till 8th weeks of the preparation of manure. Three Tunnels can be made in a Ropani of land & can be used for two consecutive years after some maintenance. Cost per Quintal seems higher in the first year due to the shed construction.

AVERAGE PRODUCTION COST & NET PROFIT

DISTRICT: Kavrepalanchok

Crop: Mushroom

Year: 2014/2015

Variety: Pleurotus sps. &Leninus sps.(Kanya)

Condition : 12ft X 20 ft tunnel

COP for one ropani= Four Plastic shed

Particulars	Units	Quantity	Rs/Unit	Total
<u>A. AVERAGE PRODUCTION COST</u>				
<u>1. Variable Cost</u>	<u>Rs.</u>			20539.29
a. Human Labor	Days			
Shed Making Labors	Days	6	575.00	1150.00
Field Labors	Days	20	380.00	2533.33
b. Straw	Kg.	750	12.00	3000.00
c. Plastic Sheet	Kg.	12	265.00	1060.00
d. Plastic Bag	Kg.	7	105.00	245.00
d. Bamboo	Gota	24	160.00	1280.00
e. Burning Wood	Kg.	260	8.00	2080.00
f. Pumpset Use	Hours	5	25.00	125.00
g. Sprayer Use	Hours	15	20.00	300.00
h. Seed Spores	Bottle	43	55.00	2365.00
i. Machinery Equipment Charges	Rs.			1750.00
j. Plant Protection Chemicals	Rs.			350.00
k. Management Cost	Rs.			2000.00
k. Land Lease	Rs.			1800.00
m. Interest on Variable Cost	Rs.			500.96
<u>2. Fixed Cost</u>	<u>Rs.</u>			269.00
a. Land Tax	Rs.			19.00
b. Water Tax	Rs.			0.00
c. Electricity Charge	Unit			0.00
d. Repair and Maintenance	Rs.			130.00
e. Depreciation	Rs.			120.00
<u>3. Total Cost</u>	<u>Rs.</u>			20808.29
<u>4. Gross Income at Farm Gate</u>	<u>Rs.</u>			56525.00
a. Main Product	Kg.	665	85.00	56525.00
b. Manure as Bi-Product	Kg.	710	1.50	1065.00
<u>5. Net Profit at Farm Gate</u>	<u>Rs.</u>			35716.71
<u>6. Production Cost Per Quintal</u>	<u>Rs.</u>			3129.07
<u>B. MARKETING AT NEAREST WHOLESALE MARKET</u>				
<u>a. Marketing Cost</u>	<u>Rs.</u>			332.50
<u>b. Value at Market</u>	<u>Kg.</u>	631.75	100.00	63175.00
<u>c. Net Profit</u>	<u>Rs.</u>			43099.21

Note: Mushroom is ready to harvest from 4th and lasts till 8th weeks of the preparation of manure. Three Tunnels can be made in a Ropani of land & can be used for two consecutive years after some maintenance. Cost per Quintal seems higher in the first year due to the shed construction.



Average Production Cost and Profit Margin of Pulse, Oilseed, Spice and Commercial Crops 2071/2072 (2014/2015)



Government of Nepal
Ministry of Agriculture Development
Department of Agriculture

**Agribusiness Promotion and Marketing Development Directorate
Market Research & Statistics Management Program**

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