

# Nepal Vegetable Crops Survey 2009-10

## A Statistical Report



**Central Bureau of Statistics**  
National Planning Commission Secretariat  
Government of Nepal  
October 2010



TA7165-NEP: Strengthening Capacity for Macroeconomic Analysis



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## Foreword

Central Bureau of Statistics (CBS) is a central statistical agency of Nepal and has been undertaking statistical operations like periodic censuses, surveys and data compilation. CBS continues to fulfill the data gap utilizing best of its capacity and resources. Among the others, CBS has considered vegetable farming as the area of utmost importance because there was high demand of the reliable information on one of the fast growing and commercialized sector of agriculture, vegetable crops. The share of agriculture in total Gross Domestic Product (GDP) is about one-third and significant part of this has been represented by vegetable farming contributing a cash flow among small farmers. So this sector has a link with poverty reduction strategy as envisaged by the periodic plans of Nepal.

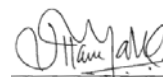
Nepal Vegetable Crops Survey 2009-10 is the first survey of its kind in Nepal. The survey covers the whole country to provide national and regional estimates of area and production of vegetable crops at fairly reliable level. This report is based on the household survey of 5400 holdings selected scientifically.

This report is divided into six chapters. The first chapter deals with the methodology employed and the implementation of the survey. The second chapter describes the demographic, educational and economic characteristics of the vegetable holders. The third chapter presents the area and use of the agricultural land and irrigation facility. Chapter four presents the tables on different farm inputs by vegetable crops. The fifth chapter furnishes the information on the production and uses of the vegetable crops. Chapter six describes the access to loans and availability of agricultural services for vegetable farming.

This survey is carried out with the assistance of Asian Development Bank under the MOU of TA7165-NEP "Technical Assistance for Strengthening Capacity for Macroeconomic Analysis". I gratefully acknowledge the generosity of those vegetable holders who participated in this survey by sparing their valuable time to answer our questions. The survey would not have been accomplished without their cooperation. I sincerely appreciate the job of all the field staffs who have worked hard to collect data.

I would like to thank the survey team led by Mr. Prabodh Sagar Dhakal, Deputy Director General of Economic Statistics Division, Mr. Ambika Bashyal, Director of Agricultural Statistics Section, Statistical Officers Mr. Rajesh Dhital, Mr. Birendra Kumar Kayastha and Mr. Ram Hari Gaihre for their effort on overall survey design, implementation and analysis. My sincere thank also goes to Statistical Officers Mr. Prithvi Vijaya Raj Sijapati, Ms. Ranju Khadka and Mr. Bishwa Nath Tripathi and Statistical Assistant Mr. Ana Raj Tiwari for their active participation for every success of the survey. I am grateful to the technical input of the national consultant of the project Mr. Ramesh Chandra Das. I would like to express my sincere thanks to Dr. Prahlad Thapa, Programme Team Leader of Center for International Studies and Cooperation (CECI) for providing valuable suggestion for this report .

I earnestly appeal all the users to exploit the wealth of information collected in the survey and contact Agriculture Statistics Section of CBS for the dataset for further analysis.



**(Uttam Narayan Malla)**

**Director General**



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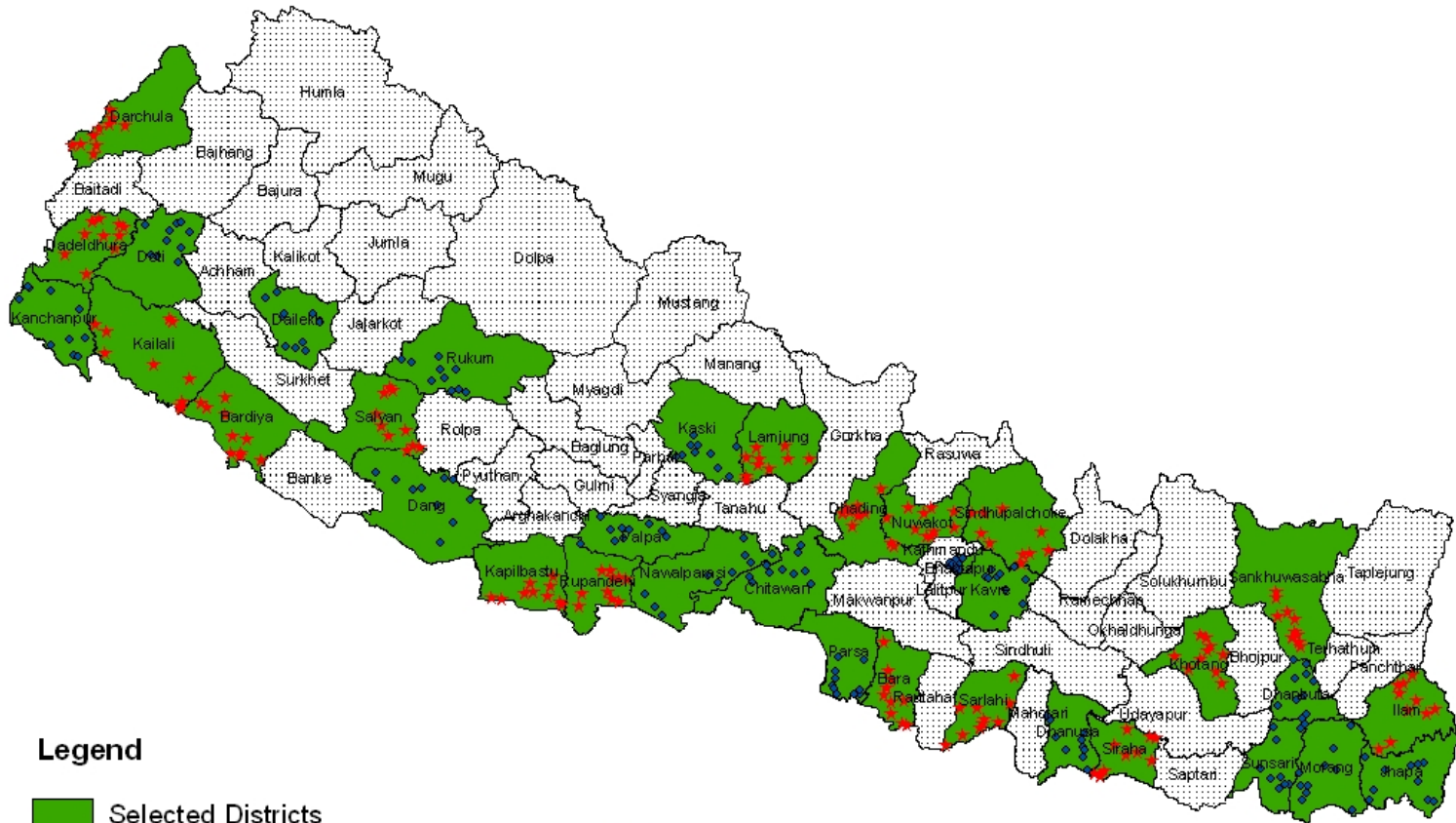
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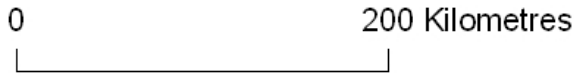
# MAP OF NEPAL

(WITH SAMPLE POINTS FOR NVCS 2009-10)



## Legend

-  Selected Districts
-  First Phase
-  Second Phase







# Executive Summary

## Survey Methodology

*Nepal Vegetable Crops Survey 2009-10 (NVCS 2009-10) is the first national vegetable survey conducted by the Central Bureau of Statistics (CBS) from mid-November 2009 and lasted till mid-February 2010. Main objective of the survey was to estimate area, production and input output ratio of vegetable crop at national and sub-national levels which would be of prime importance to generate a benchmark data for the Quarterly National Accounts (QNA), and to analyze crop diversification undergone in the recent years. The survey adopted three-stage stratified cluster sampling based on the area under vegetable crops. Household listing forms, Vegetable holders' rosters and Household questionnaires were the survey instruments administered to collect information on vegetable crops in Nepal. The survey enumerated 5400 households (vegetable holdings) from 340 Primary Sampling Units (PSU) from 34 districts representing 11 survey domains of the country. All the operational holdings where vegetable crops were grown at least in 2 Aana (0.00636 hectares) in Mountains and Hills or 4 Dhur (0.00677 hectares) in Tarai of land were termed as vegetable holding.*

## Description of Vegetable Holders

*There are 3.2 million vegetable holdings (69 percent of the total households) in Nepal. Seventy-three percent of male and sixty percent of the female vegetable holders were found literate. On the whole, 16.5 percent of*

*the holders were female, 53 percent in western hills and 1.6 percent in mid west hills. Twenty percent of the holders have secondary or higher education. Nearly one third of the holders were illiterate.*

*Only five percent of the holders reported vegetable farming as their main source of income, 61 percent reported other farming and 24 percent reported wages and salaries as their main source of income. Eighteen percent holders practices vegetable farming for commercial purpose, (34 percent in Eastern Tarai and 4.7 percent in Mountains and Far Western Hills), 82 percent practices for household consumption.*

## Area and Use of Land

*A total of 4.4 million out of 9.9 million parcels were reported to be used for vegetable farming (48 percent in all Tarai, 43 percent in all Hills and 9 percent in Mountains). On an average, a holding has 1.8 parcels used for vegetable farming. Area of the parcels under vegetable crops where vegetables were grown at least once in a year at any portion of the parcel were estimated to be 905,810 hectares, 38 percent of the total cultivated area, (19 percent in Eastern Tarai and 1 percent in Far Western Hills). Area under vegetable crops was reported to be 232 thousand hectares during the reference period. Sixty-two percent of the parcels were reported to have irrigation facility, 82 percent in Eastern Tarai and 32 percent in Mid West Hills. Majority of the holdings (95 percent) possess own land for*

vegetable farming, nearly 5 percent were found to be rented in.

### **Expenditure on Vegetable Farming**

Total farm input in Nepal is estimated at 9 billion rupees. This total does not include the cost on temporarily hired labours and the cost of land rented (around 1.4 billion rupees). The largest share of farm input is on organic fertilizer which was about 2.3 billion rupees, 26 percent of the total farm input followed by purchase/production of seeds/seedlings (22 percent) and land preparation (16 percent). The highest share of the current expenditure (farm input) was contributed by cauliflower at 1.6 billion rupees (18 percent). Tomato stood second with Rs. 1.3 billion (14 percent) and the third one is cabbage with Rs. 0.8 billion (8 percent). The lowest contributors are other vegetable, other tuber vegetable, turnip, knolkhol, buckwheat leaf and ash gourd all of their contributions being less than 0.1 percent.

### **Production and Uses of Vegetables**

There were 3,243,521 vegetable holding reported in Nepal. Tarai accommodates most of the vegetable holding. Total area under vegetable crops was estimated at 232,295 hectares. The total production of the vegetable crops turned out to be 2,820,527 metric tons where total household consumption contributed 1,100,710 metric tons (39 percent) and total sale contributed 1,719,818 (61 percent) in terms of the volume of the production.

The broad leaf mustard is found to be the most common vegetable crop in Nepal. Out of 3.2 millions of vegetable holders 2.3 million holders (70 percent) cultivated this crop. The

crops that follow broad leaf mustard in terms of farming are radish (2.1 million), pumpkin (1.8 million), and bean and garlic (1.6 million each).

Cauliflower is number one vegetable crop in terms of area planted. The area is 33,172 hectares and it is 14 percent of the total area under vegetable crops. The vegetable crops that follow the rank of cauliflower in terms of area planted are tomato (19,724 hectare), cabbage (14,306 hectare), radish (13,030 hectare) and asparagus bean (11,977 hectare). Cauliflower has the highest share of 14 percent in vegetables production (404,580 metric tons). Tomato (317,657 metric tons), cabbage (302,067 metric tons), pumpkin (166,424 metric tons) and radish (164,076 metric tons) are other vegetable crops with higher production.

The commercial vegetables are those which are cultivated for the purpose of sale. The most common commercial vegetables are cauliflower (339,273 metric tons), tomato (283,999 metric tons) and cabbage (269,294 metric tons).

The highest yield rate is observed at 41,661 kilogram per hectare for chayote/christophine. The yield rate of ash gourd, yam, squash and cabbage is 27,562 kg/ha, 26,200 kg/ha, 23,964 kg/ha and 21,115 kg/ha respectively. The lowest yield rate is estimated for buckwheat leaf (2,557 kg/ha) and asparagus (2,791 kg/ha).

The scotch bonnet chilli (Akbare Khursani) tops the unit mean price among the vegetable crops reported in the survey with Rs. 115.64 per kilogram. Others that follow the rank were asparagus (Rs. 78.45 per kg), garlic (Rs. 45.73 per kg), hot pepper/chilli (Rs. 40.83 per kg).

Ash gourd (Rs. 8.59 per kg), radish (Rs. 9.46 per kg) pumpkin (Rs. 10.26 per kg) and chayote/christophine (Rs. 10.41 per kg) were reported as sold in the cheapest price by the vegetable farmers.

The total output estimated was the highest of cauliflower which was 6.5 billion rupees, a 20 percent of the total vegetable output. The value of output was measured at the price received by farmers. The other vegetables with higher output were tomato (Rs. 5.7 billion), cabbage (Rs. 3.5 billion) and asparagus bean, cucumber and broad leaf mustard (Rs. 2 billion each). Lowest contributors of the vegetable output were asparagus (Rs. 10 million), buckwheat leaf (Rs. 10.6 million), knolkhol (Rs. 13 million), other vegetable (Rs. 16 million) and turnip (Rs. 19 million).

Similar pattern of vegetable input was observed from the survey where cauliflower had the highest value of input at 1.6 billion rupees, an 18 percent of the total vegetable input. Other vegetable crops that required a higher input were tomato (Rs. 1.3 billion) and cabbage (Rs. 770 million). Other vegetable (Rs. 0.5 million), other tuber (Rs. 2.5 million), turnip (Rs. 2.8 million), knolkhol (Rs. 3.3 million), buckwheat leaf and ash gourd (Rs. 3.6 million each) had nominal estimated farm input.

In terms of value added, the cauliflower contributes Rs. 4.9 billion, 13.6 percent of the total contribution. The other vegetables with higher share of vegetable value addition were tomato (Rs. 4.4 billion) and cabbage (2.8 billion). Only one vegetable crop, asparagus had been estimated as negative value added of Rs. 8 million. Other lowest contributors of vegetable output were buckwheat leaf (Rs. 7

million), knolkhol (Rs. 10 million), other vegetable (Rs. 15.8 million) and turnip (Rs. 16.3 million).

### **Access to Agricultural Services**

Nearly, 5 percent of the holders reported to have received loan for vegetable farming and among them, 26 percent have taken loan from relatives or friends and 24 percent from Agriculture Development Bank, 15 percent from cooperatives, etc. Fifty eight percent of the farmers reported that seeds were easily available. Ninety-two percent of the farmers used chemical insecticides.

Sixty percent of the holders sold their produce in the local market, 15 percent to wholesalers, 11 percent to local collection centre and 15 percent sold at farm or home itself. Forty-three percent took their produce to the market on foot. Among the persons involved in selling the produce, thirty-seven percent were females. On the whole, 12 percent of the households reported that income from vegetable farming was enough to maintain their livelihood for 12 months; thirty seven percent maintained for 4 to 6 months and 37 percent for less than 3 months.

## Abbreviations and Acronyms

<b>ADB</b>	Asian Development Bank
<b>BSO</b>	Branch Statistical Office
<b>CBS</b>	Central Bureau of Statistics (Nepal)
<b>CSPro</b>	Census and Survey Processing
<b>DADO</b>	District Agriculture Development Office
<b>GDP</b>	Gross Domestic Product
<b>JT</b>	Junior Technician
<b>JTA</b>	Junior Technical Assistant
<b>MDGs</b>	Millennium Development Goals
<b>MOAC</b>	Ministry of Agriculture and Cooperatives
<b>MOU</b>	Memorandum of Understanding
<b>NVCS</b>	Nepal Vegetable Crops Survey
<b>PPS</b>	Probability Proportional to Size
<b>PSU</b>	Primary Sampling Unit
<b>QNA</b>	Quarterly National Accounts
<b>SSU</b>	Secondary Sampling Unit
<b>STATA</b>	Statistical Analysis
<b>USU</b>	Ultimate Sampling Unit
<b>VDC</b>	Village Development Committee

# Chapter I

## Survey Methodology

### 1.1 Introduction

Nepal is a country with subsistence agriculture as a prime occupation. The total cultivated area of the country is 3.09 million hectares. The most important crops grown in Nepal are rice, maize, wheat, millet, barely, potato and sugarcane. Different vegetable crops are grown all over the country mainly as minor crops. The vegetable crops occupy 7.3 percent of the total cultivated agricultural land (MOAC 2008/09) which indicates the increasing value of vegetable sector in Nepalese economy.

Realizing the importance of export potentiality and its contribution to the Gross Domestic Product (GDP) in the economy, a number of developmental programmes are being implemented to promote cultivation of these crops in different parts of the country. The information of vegetable area and production is primarily based on administrative records and subjective assessments. District Agriculture Development Offices (DADO) collect data on the area under vegetable crops on the basis of field observation and prevailing weather conditions whereas this information is compiled by the Ministry of Agriculture and Cooperatives (MOAC) from the information provided by DADO and Crop Inspection Report from MOAC itself. But these data suffer from deficiencies in terms of coverage and considerable variations are being noticed between these two sources of information. For generating updated and reliable estimates of area and production of vegetable crops through a scientific approach, a benchmark survey exclusively on these crops was planned.

The approach of vegetable crops survey for estimation of area and production, unit price, input output cost and other variables associated with vegetable crops is somewhat complex due to the special feature of cultivation of these crops and off-season farming.

It is also realized that due to the perishable nature of the vegetable crops, production depends on availability of market facilities in the area. This is why cultivation of vegetable is normally concentrated around bigger towns or cities or along the highway. Accordingly, the methodology for the sampling, estimation of area, production and related variables of vegetable crops has been developed for the first time to get the estimates at national and sub-national levels.

## **1.2 Background**

Government of Nepal has been encouraging farmers to cultivate high value crops since decades with a purpose to raise agriculture income. In the absence of objectively measured data on individual vegetable crops it is difficult to evaluate the program. Central Bureau of Statistics (CBS) in the context of its attempt to strengthen national accounts has felt necessity of quarterly national accounts (QNA) estimates and thus, conducted the first vegetable crop survey of Nepal that provided estimates of individual vegetable crops. The survey was a joint effort of CBS and Asian Development Bank, Nepal.

Nepal Vegetable Crops Survey 2009-10 (NVCS 2009-10) was carried out by the Central Bureau of Statistics (CBS) under the assistance of Asian Development Bank (ADB). The assistance was made to improve the national statistical system of Nepal through building statistical capacity especially for compiling updated national accounting system. One of the major components of GDP compilation is based on the agriculture sector which covers more than one-third of the GDP. To fill the data gaps in current agricultural statistics, the growing share of vegetable crops was identified to be measured through the nationally representative survey.

## **1.3 Objectives of the Survey**

Nepal Vegetable Crops Survey 2009-10 was conducted for the first time in Nepal. The overall objective of the survey was to generate statistics required for the development of vegetable crops.

The survey was designed with the following specific objectives:

- (i) To estimate area, production and input-output ratio of the vegetable crops at national and sub-national levels;
- (ii) To generate agriculture statistics support the annual and benchmarking quarterly national accounting (QNA);
- (iii) To assess the changes in land use and vegetable crop diversification pattern practiced in recent years; and
- (iv) To provide relevant statistics required for the development of vegetable crops to planners, policy makers and researchers.

## **1.4 Scope and Coverage**

With the objectives mentioned above, the vegetable crops survey was carried out to estimate the major components of vegetable farming at national and sub-national levels. The key survey results are representative to the following 11 domains of the country in addition to five development regions (Eastern, Central, Western, MidWest and FarWest) and three agro-ecological belts (Mountains, Hills and Tarai):

1. Mountains
2. Eastern Hills
3. Eastern Tarai
4. Central Hills
5. Central Tarai
6. Western Hills
7. Western Tarai
8. Mid-West Hills
9. Mid-West Tarai
10. Far-West Hills
11. Far-West Tarai

The scope of the survey was covered in the following topics of vegetable farming:

### **1. Introductory Description**

It has questions on geographical location of the enumeration area, information on the principal vegetable holder such as name, caste/ethnicity, sex, educational status, main source of income and the purpose of vegetable farming.

### **2. Area and Use of Land by Parcel**

This section covers the information on area and land uses, irrigation facility, sources of irrigation and land ownership by parcels.

### **3. Description of Employment and Current/Capital Expenditure**

#### **3.1 Family and Permanent/Temporary Workers engaged in Vegetable Farming**

The information on the number of family members, temporary and permanent employees hired for vegetable farming was covered.

### 3.2 Description of Capital Expenditure on Vegetable Farming

This sub-section has questions on purchase of land, agricultural equipment and major repairs of capitals used for vegetable farming.

### 3.3 Current Expenditure on Vegetable Farming

The current expenditure on different activities of vegetable crops was collected in this sub-section including the month in which the expenditure was made for each vegetable crop. The information on the temporarily hired labour was captured for every vegetable crop.

## **4. Production and Income**

### 4.1 Vegetable Production and Uses

In this group, questions on production and uses of vegetable crops were asked by each vegetable parcel. It includes the month in which the vegetable crops were planted and harvested. The production under compact plantation and in a scatter form was collected to make exhaustive collection of production. The number of plants was recorded in case of scatter vegetable crops for each parcel instead of area. The information on the household consumption and sales constitute the total production which ultimately produced total output using the average unit producers' price value.

### 4.2 Other Income from Vegetable Farming

The income from the byproducts of vegetable crop and sale of vegetable crop land and other equipment were collected under this heading.

## **5. Financial Description**

The information on loan requirements for the vegetable crops was asked in this section.

## **6. Miscellaneous**

The information on the agricultural inputs and agricultural extension services, market center for vegetable sale and sufficiency of the vegetable production were gathered in this section.



The following 55 vegetable crops were covered in Nepal Vegetable Crops Survey 2009-10 specifically.

S. N.	Code	Vegetable Name	S. N.	Code	Vegetable Name	S. N.	Code	Vegetable Name
1	111	Cauliflower	20	225	Chayote/Christophine	39	419	Pumpkin shoot
2	112	Cabbage	21	226	Pointed gourd	40	420	Chayote shoot
3	113	Broccoli	22	227	Ash gourd	41	421	Colocasia leaf
4	114	Knolkhol	23	228	Watermelon	42	499	Other Leafy Vegetable
5	119	Other Cole Crop	24	299	Other Cucurbitaceae	43	511	Radish
6	211	Tomato	25	311	Pea	44	512	Turnip
7	212	Brinjal/Eggplant	26	312	Bean	45	513	Carrot
8	213	Bitter gourd	27	313	Asparagus bean	46	514	Onion
9	214	Lady's finger/Okra	28	314	Broad bean	47	515	Garlic
10	215	Hot pepper/Chilli	29	315	Soya bean	48	599	Other Root Vegetable
11	216	Scotch bonnet chilli	30	399	Other Leguminosae	49	613	Yam
12	217	Sweet pepper	31	411	Broad leaf mustard	50	614	Colocasia/Arum
13	218	Cucumber	32	412	Garden cress	51	615	Elephant foot yam
14	219	Pumpkin	33	413	Spinach	52	616	Sweet potato
15	220	Squash	34	414	Mustard leaf	53	699	Other Tuber Vegetable
16	221	Bottle gourd	35	415	Buckwheat leaf	54	711	Asparagus
17	222	Sponge/Ridge gourd	36	416	Fenugreek leaf	55	799	Other Vegetable
18	223	Snake gourd	37	417	Garlic Green			
19	224	Balsam apple	38	418	Onion Green			

## 1.5 Sampling Design

The sampling design adopted in Nepal Vegetable Crops Survey 2009-10 was three-stage stratified cluster sampling. The three stages of the sample selection were:

First stage: districts

Second stage: wards

Third stage: vegetable holdings (households farming vegetable crops)

### First stage of selection

In the first stage, 34 districts were selected as primary sampling unit (PSU) from the country. The number of districts was chosen so as to provide the reliable estimates for the domains of eco-development region and ascertain the variation within the domain. The number of districts to be selected from 11 domains (also considered as strata) was allocated proportionately based on the area under vegetable crops in each domain. The districts were selected from each domain with probability proportional to size (PPS) where the measure of size was the area under vegetable crops in each district.

## **Second stage of selection**

From each district selected in the first stage, 10 wards (clusters) were selected as secondary sampling unit (SSU). Two explicit strata were made within a district with wards of commercial vegetable farming and wards of non-commercial vegetable farming. Number of wards to each stratum was allocated proportionately. The wards were sorted in each stratum by village development committee (VDC) and municipality and their order (from 1 to 9 in VDC and 1 to largest in municipality) as an implicit stratification. The wards were selected with PPS from each stratum where the measure of size was the number of households in each ward.

## **Third stage of selection**

From each ward selected in the second stage, an exhaustive listing of households with vegetable farming (vegetable holding) was prepared during listing operation. The vegetable holdings were sorted implicitly based on the four categories of area under vegetable crops. Eventually, a systematic sampling was employed to select 15 (20 in the case of under-representative domains) vegetable holdings as ultimate sampling unit (USU).

All the operational holdings where vegetable crops were grown at least in 2 Aana (0.00636 hectares) in Mountains and Hills or 4 Dhur (0.00677 hectares) in Tarai of land were termed as vegetable holding. The implicit stratification was made with the following four criteria of land area where vegetable crops were grown:

- a. At least 2 Aana/4 Dhur or more and less than 8 Aana/10 Dhur;
- b. 8 Aana/10 Dhur or more and less than 1 Ropani/1 Kaththa;
- c. 1 Ropani/1 Kaththa or more and less than 5 Ropani/5 Kaththa; and
- d. More than 5 Ropani/5 Kaththa.

## **1.6 Sampling Frame**

The sampling frame for Nepal Vegetable Crops Survey 2009-10 is the combination of the area under vegetable crops at district level and number of households at ward level. The information on the area under vegetable crops was available from Ministry of Agriculture and Cooperatives for the year 2008-09 and household information was made use of latest National Population Census of Nepal 2001.

The estimates were desired for 11 domains, 5 development regions, 3 agro-ecological belts and national level. The area under vegetable crops was aggregated at domain level to select the districts (high productive district) prominent to vegetable farming.

The wards were classified into two categories: wards with commercial vegetable farming and wards with non-commercial vegetable farming. This information was not readily available; however, it was closely related to the vegetable pocket areas defined by District Agriculture Development Offices (DADO). With the help of Vegetable Development Directorate, Branch Statistical Offices (BSO) and survey team of Agriculture Statistics Section under CBS, the VDC/municipalities were classified as commercial and non-commercial areas for vegetable farming. The information (classification) was derived at ward level with the assumption that all the wards within VDC/Municipality were uniformly commercial and non-commercial in accordance to the VDC/Municipality they belong.

## **1.7 Field Work**

### **Field Staff**

The field staffs were selected from Central Bureau of Statistics and Branch Statistical Offices. The 17 supervisors and 34 enumerators were chosen from BSOs for the field work. The officers of BSO were also deputed for the district level supervision of the respective districts. The Agriculture Statistics Section was responsible for the overall central supervision.

### **Training of Field Staff**

As training is very important in any sort of household surveys, an intensive training was imparted to the staff to be involved in vegetable crops survey. Firstly, a master training was organized by Agriculture Statistics Section on the second week of October 2009 (13-15 October) at Dhulikhel of Kabhre district for the officers to be involved in the survey. The officers were trained and briefed on:

- (i) importance of vegetable crops information in agriculture statistics and for national accounting
- (ii) sample selection and field operation
- (iii) concepts and definitions used in the survey questionnaire
- (iv) responsibilities of the officers to be involved in the survey

They were also given the guidelines for training to district officers, field supervisors and enumerators. The officers of CBS and the national consultant from ADB (Agricultural Statistician) participated in the training program.

The second level training was organized in three districts. The intensive training for district officers, supervisors and enumerators was organized by Agriculture Statistics Section at Itahari

(Sunsari), Pokhara (Kaski) and Dhangadhi (Kailali). The duration of the training was 2 days for the statistical officers (25-26 October 2009) and 5 days (27-31 October 2009) for the field supervisors and enumerators. The supervisors and enumerators were also briefed and trained to fill up different questionnaires designed for the survey work. They were given guidelines in the training to maintain consistency of procedures employed and uniformity of concepts and definitions used. Each supervisor and enumerator was provided instructions manuals for their better understanding of the objectives of conducting the survey.

### **Field Enumeration**

Nepal Vegetable Crops Survey 2009-10 was carried out in two phases in 3 months. In the first phase 17, cross-sectional districts of the country were covered and the remaining districts were enumerated in the second phase each of one and a half months. The field work was begun from mid-November 2009 and lasted till mid-February 2010. There were 17 teams formed and employed for the field work of 34 districts selected. Each team was assigned for household listing and enumeration of 20 wards within 2 districts.

There was one supervisor and two enumerators in each team. Each team was provided a household listing form (Form 1), roster of sample holding (Form 1A), household survey questionnaires (Form 2), enumerators' manuals and necessary logistic support (pencil, eraser, black and red ball pens, writing pad, clip board, files, backpack, stapler and staples, punching machine, first aid kit, torch light with batteries, calculator, etc.). As a team leader, the supervisor was responsible for supervising, coordinating, editing and checking of the filled-in questionnaire and solving the problems encountered by enumerators. The quality of data collected from the holders depends to some extents on the attempt of the enumerators. The enumerators were assigned to visit households, interview the household head or vegetable holder and in case of their absence, fill-in the questionnaire with knowledgeable person of the family. To maintain the data quality, revisits to the households were made if any inconsistencies were shown in the filled-in questionnaire.

### **Field Supervision**

An intensive supervision over the field work was carried out by the supervisory staff comprising district level officers and supervisors. In addition, field supervision was carried out to various districts by the officers and supervisors of agriculture statistics section of CBS and Agricultural Statistician of the project. Supervision was done basically for checking to control non-sampling errors likely to occur due to enumerators or respondents or both. After completing the work of enumeration in assigned number of wards in a team, enumerators submitted the filled-in questionnaires to the supervisor or team leader for editing and checking. On the basis of the work done by enumerators in the selected wards, the team leader provided the progress report of the

survey in the respective BSO and to CBS through phone. The report of the supervisory staff confirmed that the quality of data collected by the field staff by and large was quite good.

### **Reference Period**

The reference period of the survey was usually the last agricultural year or past 12 months preceding the day of interview with the vegetable holders.

## **1.8 Household Listing**

A complete household listing was done to the wards selected in the sample. The following information was collected in the listing of the households:

1. House Serial Number
2. Household Serial Number
3. Name of Household Head
4. Address (Village/Settlement)
5. Vegetable Crops under Land area of at least 2 Ana or 4 Dhur [Yes 1 No 2] (If no, proceed to next household)
6. Serial Number of Vegetable Crops Holder if answer is "Yes" in column 5
7. Name of Vegetable Crops Holder
8. Total number of parcels under vegetable crops
9. Unit of Land Area [Bigha 1 Ropani 2]
10. Total Area under Vegetable Crops

### **To be filled by Supervisor after the Completion of Household Listing**

11. Household Serial Number of Holder operating 2 Ana/4 Dhur and more but less than 8 Ana/10 Dhur of land for Vegetable Crops
12. Household Serial Number of Holder operating 8 Ana/10 Dhur and more but less than 1 Ropani/1 Kaththa of land for Vegetable Crops
13. Household Serial Number of Holder operating 1 Ropani/1 Kaththa and more but less than 5 Ropani/5 Kaththa of land for Vegetable Crops
14. Household Serial Number of Holder operating 5 Ropani/5 Kaththa and more land for Vegetable Crops
15. Name of Enumerator, Date, and Signature
16. Name of Supervisor, Date, and Signature

The sampling interval was computed by dividing the number of vegetable holdings in the selected wards by the fixed number of sampled holdings per ward. This number was 15 and it was 20 in the case of MidWest Tarai, FarWest Hills and FarWest Tarai to ensure reliable estimates to these domains. Then vegetable holdings, the ultimate sampling units of the survey, were selected using the method of systematic sampling.

## **1.9 Data Management**

After data collection, inconsistency checks and error removing were done to improve the quality of the survey data. The procedure of editing was done by the staff of Agriculture Statistics Section of CBS for maintaining the quality of compiled and processed data. The staff of CBS developed computer programming for data entry, editing and tabulation for the vegetable crops survey using the software packages CPro and STATA.

### **Data Entry**

It was decided to contract the data entry work out due to the lack of sufficient manpower in the Agriculture Statistics Section. The data entry was contracted out to private processing firm. The staff of Agriculture Statistics Section of CBS involved in survey supervised the quality of the data entry by checking the filled-in questionnaires on sample basis. The data entry work was completed within three months.

### **Data Editing and Cleaning**

Once the data entry was completed, the staffs of the Agriculture Statistics Section checked and verified the data of each questionnaire in the computer. The computer program displayed the outliers, which was checked and edited in questionnaire supported by sufficient evidence. The editing was completed within two months period.

It was a time-consuming work but editing ensured the data were of a high quality. The editing was designed to identify several types of error such as missing data (e.g. area under vegetable was reported but parcel of land were missing), inconsistencies (e.g. total area and area of vegetable may differ by parcels), etc.

### **Output Tables**

The computer program was designed to produce a set of output tables for each required geographical level that is one set for domain, development region and ecological belt as well as one for the whole country. An important aspect of the output table is that the vegetable crops survey was launched to provide quarterly data on current/capital expenditure, area and

production of vegetable for quarterly national accounting. This exercise will be done while preparing quarterly national accounts and thus excluded in this report.

### **1.10 Limitations**

The survey used the frame of population census 2001 with the non-institutional households. The vegetable farming done by institutional households were excluded from the survey. The classification of strata within district could not be as objective as envisaged due to the lack of information on the commercialized area at the ward level. The survey is not representative of districts though it is potential to be used for small area estimation technique with the use of census data in order to derive estimates at district level.

### **1.11 Lessons Learned**

The field work was done in a coherent team which was turned out to be effective. The collection of input cost of different activities for individual vegetable crop was little bit difficult. The input cost was not readily separable due to the practice of subsistence vegetable farming in Nepal. Some non-prevalent types of vegetable crops like asparagus necessitates separate pocket frame for the specific surveys in the future.





## Chapter II

### Description of Vegetable Holders

This chapter presents introductory tables of sample distribution, geographic distribution of the holding, caste/ethnicity of the vegetable holders, sex and literacy of vegetable holder, level of education completed by vegetable holder, main source of income of vegetable holder, and main purpose of vegetable farming.

Table 2.0: Distribution of Samples in Nepal Vegetable Crops Survey 2009-10

Survey Domain	Districts/ Domain	District Name	Wards/ District	Total Wards	HHs/ Ward	Total HHs
Mountains	3	Sankhuwasabha, Sindhupalchok, Darchula	10	30	15	450
Eastern Hills	3	Ilam, Dhankuta, Khotang	10	30	15	450
Eastern Tarai	4	Jhapa, Morang, Sunsari, Siraha	10	40	15	600
Central Hills	4	Kabhre, Bhaktapur, Nuwakot, Dhading	10	40	15	600
Central Tarai	5	Dhanusha, Sarlahi, Bara, Parsa, Chitwan	10	50	15	750
Western Hills	3	Lamjung, Kaski, Palpa	10	30	15	450
Western Tarai	3	Nawalparasi, Rupendehi, Kapilbastu	10	30	15	450
MidWest Hills	3	Rukum, Salyan, Dailekh	10	30	15	450
MidWest Tarai	2	Dang, Bardiya	10	20	20	400
FarWest Hills	2	Doti, Dandeldhura	10	20	20	400
FarWest Tarai	2	Kailali, Kanchanpur	10	20	20	400
<b>Total</b>	<b>34</b>		-	<b>340</b>	-	<b>5400</b>

Table 2.0 presents the districts selected for vegetable crops survey by survey domain. In three domains MidWest Tarai, FarWest Hills and FarWest Tarai, 20 households (vegetable holdings) were selected from each cluster to ensure proper representation in these domains.

Table 2.1: Distribution of Household, Population and Vegetable Holding by Geographic Region

Geographic Region	Household Size	Total Household	Household Distribution (%)	Population	Male	Female	Vegetable Holding	Vegetable Holding (%)
<b>Belt</b>								
Mountains	5.76	430,524	9.2	2,477,988	1,257,889	1,220,099	303304	70.5
Hills	5.52	1,684,959	36.0	9,306,167	4,564,895	4,741,273	1310087	77.8
Tarai	6.69	2,568,256	54.8	17,179,183	8,716,768	8,462,415	1630130	63.5
<b>Region</b>								
Eastern	5.74	1,234,173	26.4	7,082,689	3,642,291	3,440,399	838583	67.9
Central	6.56	1,469,676	31.4	9,643,788	4,869,343	4,774,444	1039047	70.7
Western	5.58	956,567	20.4	5,335,356	2,563,147	2,772,209	672220	70.3
MidWest	6.90	515,150	11.0	3,555,356	1,765,954	1,789,402	387592	75.2
FarWest	6.58	508,173	10.8	3,346,150	1,698,817	1,647,333	306078	60.2
<b>Survey Domain</b>								
Mountains	5.76	430,524	9.2	2,477,988	1,257,889	1,220,099	303304	70.5
Eastern Hills	5.65	242,154	5.2	1,368,787	689,295	679,492	220865	91.2
Eastern Tarai	5.74	875,087	18.7	5,027,055	2,607,934	2,419,121	517786	59.2
Central Hills	5.46	457,142	9.8	2,496,431	1,253,637	1,242,794	397466	86.9
Central Tarai	7.38	899,143	19.2	6,637,995	3,372,703	3,265,292	557339	62.0
Western Hills	4.89	639,079	13.6	3,122,768	1,476,480	1,646,288	445644	69.7
Western Tarai	6.97	317,488	6.8	2,212,588	1,086,667	1,125,920	226577	71.4
MidWest Hills	6.82	233,483	5.0	1,592,764	785,486	807,279	163686	70.1
MidWest Tarai	6.97	281,668	6.0	1,962,592	980,468	982,123	223906	79.5
FarWest Hills	6.41	113,102	2.4	725,417	359,997	365,420	82427	72.9
FarWest Tarai	6.87	194,870	4.2	1,338,954	668,996	669,959	104522	53.6
<b>Nepal</b>	<b>6.18</b>	<b>4,683,739</b>	<b>100.0</b>	<b>28,963,339</b>	<b>14,539,552</b>	<b>14,423,787</b>	<b>3,243,521</b>	<b>69.3</b>

Table 2.1 reveals that there are an estimated 4.7 million households in Nepal. It is estimated that the total population of Nepal is 28.96 million out of which 14.5 million is male and 14.4 million is female in these households. The average size of household is 6.18 estimated from the vegetable crop survey 2009-10. The average household size of Mountains, Hills and Tarai is 5.76, 5.52 and 6.69 among which Tarai is the highest among the three ecological belts.

Analysis of the distribution of population by geographical region in Nepal is important due to the varied climatic conditions. Geographically Nepal is divided into three north-south ecological belts (Mountains, Hills and Tarai) and five east-west development regions (Eastern, Central, Western, MidWest and FarWest) which vary in terms of living conditions and natural resources. Three ecological zones are Mountains in the north (altitude 4877 to 8848 meters), Hills in the middle (altitude 610 to 4876 meters) and Tarai in the south. Mountains make up 35 percent of total land area of the country, while Hills and Tarai share 42 percent and 23 percent respectively. For the survey purpose, the ecological belts are considered as classification of the districts done as a whole so in some cases the anomalous nature of the vegetable characteristics could have been observed due to this definition.

Nepal Vegetable Crops Survey 2009-10 recorded a total vegetable holdings count of 3,243,521 which is about 69.3 percent of the total households. Out of the total households there were 71 percent households with vegetable holdings in Mountains, 78 percent in Hills and 64 percent in Tarai.

The distribution of households with vegetable holdings by development region shows that the Mid-West region accommodates 75 percent, Central accommodates 71 percent, Western 70, Eastern 68 and FarWest 60 percent. Among five development regions, the percentage of households with vegetable farming is the highest in MidWest development region whereas it is the lowest in FarWest development region. The average number of persons per household was estimated at 6.18 which is slightly higher compared to population census 2001. It might be due to the heavy rural characteristics of the sample.

Table 2.2: Caste/Ethnicity of Vegetable Holder by Geographic Region

S.N.	Caste/Ethnicity	Percent	S.N.	Caste/Ethnicity	Percent	S.N.	Caste/Ethnicity	Percent
1	Chhetri	16.92	25	Sonar	0.07	49	Badhai	0.30
2	Brahman (Hill)	13.24	26	Kewat	1.17	50	Santhal/Satar	0.24
3	Magar	7.20	27	Brahman (Tarai)	0.41	51	Dhangad/Jhangad	0.07
4	Tharu	11.17	28	Baniya	0.08	52	Bantar	0.05
5	Tamang	5.39	29	Gharti/Bhujel	0.58	53	Barai	0.17
6	Newar	3.27	30	Mallah	0.19	54	Kahar	0.22
7	Muslim	2.63	31	Kalwar	0.27	55	Gangai	0.01
8	Kami	3.06	32	Kumal	0.87	56	Lodh	0.02
9	Yadav	4.57	33	Hajam/Thakur	0.48	57	Rajbhar	0.07
10	Rai	3.98	34	Kanu	0.07	58	Bhote	0.01
11	Gurung	4.68	35	Rajbansi	0.44	59	Bing/Binda	0.04
12	Damain/Dholi	2.16	36	Sunuwar	0.25	60	Bhediyar/Gaderi	0.04
13	Limbu	0.95	37	Sudhi	0.46	61	Yakkha	0.10
14	Thakuri	1.80	38	Lohar	0.37	62	Darai	0.01
15	Sarki	0.90	39	Tatma	0.25	63	Tajpuriya	0.02
16	Teli	1.16	40	Khatwe	0.12	64	Thakali	0.03
17	Chamar/Harijan/Ram	0.91	41	Dhobi	0.60	65	Pahari	0.05
18	Koiri	2.40	42	Majhi	0.17	66	Mali	0.05
19	Kurmi	1.10	43	Nuniya	0.38	67	Bote	0.05
20	Sanyasi	0.49	44	Kumhar	0.31	68	Dura	0.22
21	Dhanuk	0.34	45	Danuwar	0.23	69	Byangsi	0.01
22	Musahar	0.14	46	Chepang/Praja	0.16	70	Other Caste	1.14
23	Dusadh/Paswan/Pasi	0.42	47	Rajput	0.02			
24	Sherpa	0.21	48	Kayastha	0.03			
							<b>Total</b>	<b>100</b>

The vegetable crops survey was able to record 70 different caste/ethnic groups with sizable responses from the holders found in the different ecological belts and development regions of Nepal. The holders with Chhetri caste was recorded at 17 percent of the total population followed by Hill Brahman (13 percent). In Tarai, Tharu were reported as high as 11 percent.

Table 2.3: Sex and Literacy of Vegetable Holder by Geographic Region

Geographic Region	Sex of Holder			Literacy of Holder			<i>Percent</i>
	Male	Female	Total	Male	Female	Total	
<b>Belt</b>							
Mountains	92.3	7.7	100	78.7	51.6	76.7	
Hills	71.9	28.1	100	76.0	60.2	71.6	
Tarai	91.1	8.9	100	69.3	61.2	68.6	
<b>Region</b>							
Eastern	90.9	9.1	100	81.0	57.2	78.9	
Central	86.7	13.3	100	62.4	68.7	63.3	
Western	57.2	42.8	100	71.6	59.1	66.3	
MidWest	96.7	3.3	100	71.3	46.7	70.5	
FarWest	93.0	7.0	100	85.5	37.1	82.1	
<b>Survey Domain</b>							
Mountains	92.3	7.7	100	78.7	51.6	76.7	
Eastern Hills	90.1	10.0	100	83.7	51.7	80.6	
Eastern Tarai	91.1	8.9	100	79.4	60.9	77.8	
Central Hills	75.7	24.3	100	74.0	68.8	72.7	
Central Tarai	94.5	5.5	100	58.1	78.2	59.2	
Western Hills	46.7	53.3	100	73.2	59.0	65.6	
Western Tarai	78.0	22.0	100	69.7	59.8	67.5	
MidWest Hills	98.4	1.6	100	72.4	75.7	72.5	
MidWest Tarai	95.5	4.5	100	70.4	39.1	69.0	
FarWest Hills	88.8	11.2	100	79.0	19.5	72.3	
FarWest Tarai	92.1	8.0	100	78.3	35.8	74.9	
<b>Nepal</b>	<b>83.5</b>	<b>16.5</b>	<b>100</b>	<b>72.6</b>	<b>60.1</b>	<b>70.6</b>	

In Nepal, the agricultural holder is usually the same person as the household head. The agricultural holder was identified on the basis of the person acknowledged by household members as the primary decision maker on matters relating to the operations of the holdings. Of the 3,243,521 vegetable holders derived from the vegetable crop survey 2009-10, there were 83.5 percent male holders and 16.5 percent female holders. Less than two percent of the vegetable holdings were headed by females in MidWest Hills.

Literate in this survey is a person who can read and write in any language. The literacy rate is accounted as 70.6 percent where the male is estimated at 72.6 percent and female at 60.1 percent. As far as literacy of the female holders is concerned, the lowest figure is seen in the Mountains (51.6 percent). Among development regions, the lowest literacy rate is observed in females of Far-Western. About 69 percent of female holders were literate in Central Hills survey domain.

Table 2.4: Level of Education Completed by Vegetable Holder by Geographic Region

	<i>Percent</i>						
<b>Geographic Region</b>	<b>Illiterate</b>	<b>Literate Non-Formal</b>	<b>Primary</b>	<b>Lower Secondary</b>	<b>Secondary</b>	<b>Tertiary</b>	<b>Total</b>
<b>Belt</b>							
Mountains	23.3	30.6	15.2	8.6	15.6	6.6	100
Hills	28.4	24.3	17.5	10.8	13.9	5.1	100
Tarai	31.4	21.2	12.9	13.0	15.8	5.7	100
<b>Region</b>							
Eastern	21.1	29.5	15.0	11.7	15.7	7.0	100
Central	36.7	20.5	13.6	11.3	13.7	4.2	100
Western	33.7	17.4	15.5	10.8	16.7	5.9	100
MidWest	29.5	22.1	17.8	13.8	12.6	4.2	100
FarWest	17.9	30.8	14.6	12.2	17.5	7.0	100
<b>Survey Domain</b>							
Mountains	23.3	30.6	15.2	8.6	15.6	6.6	100
Eastern Hills	19.4	26.4	22.3	13.9	13.9	4.0	100
Eastern Tarai	22.2	31.6	11.4	10.6	16.0	8.2	100
Central Hills	27.3	30.7	14.2	8.9	13.5	5.4	100
Central Tarai	40.8	14.2	12.2	14.1	15.0	3.8	100
Western Hills	34.4	20.1	15.5	9.3	15.1	5.6	100
Western Tarai	32.5	12.1	15.4	13.8	19.8	6.5	100
MidWest Hills	27.6	22.8	19.8	13.9	12.5	3.5	100
MidWest Tarai	31.0	21.6	16.3	13.8	12.7	4.6	100
FarWest Hills	27.7	13.5	25.9	13.5	13.1	6.3	100
FarWest Tarai	25.1	26.5	10.7	15.9	17.5	4.3	100
<b>Nepal</b>	<b>29.4</b>	<b>23.4</b>	<b>14.9</b>	<b>11.7</b>	<b>15.0</b>	<b>5.5</b>	<b>100</b>

Almost one-third of the vegetable holders were illiterate whereas one quarter of the holders was just literate from non-formal education. Only 6 percent of the vegetable holders had completed the higher secondary level of education. Only 4.2 percent of vegetable holders of Central region had completed the tertiary education.

Table 2.5: Main Source of Income of Vegetable Holder by Geographic Region

								<i>Percent</i>
<b>Geographic Region</b>	<b>Vegetable Farming</b>	<b>Other Farming</b>	<b>Livestock /Poultry</b>	<b>Trade/ Business</b>	<b>Transport Service</b>	<b>Salary/ Wages</b>	<b>Others</b>	<b>Total</b>
<b>Belt</b>								
Mountains	0.79	68.92	1.74	7.97	0.00	16.49	4.09	100
Hills	7.26	53.87	1.56	3.13	0.08	25.23	8.87	100
Tarai	3.98	65.94	0.48	3.49	0.07	24.9	1.14	100
<b>Region</b>								
Eastern	7.9	72.8	1.55	1.95	0.00	14.58	1.22	100
Central	5.4	56.92	1.2	5.24	0.10	30.13	1.01	100
Western	4.95	44.41	0.55	2.42	0.17	30.45	17.05	100
MidWest	1.14	75.51	0.28	2	0.00	20.03	1.03	100
FarWest	0.78	64.18	1.07	8.94	0.00	22.47	2.57	100
<b>Survey Domain</b>								
Mountains	0.79	68.92	1.74	7.97	0.00	16.49	4.09	100
Eastern Hills	17.81	70.94	3.87	1.71	0.00	3.65	2.03	100
Eastern Tarai	4.8	71.44	0.69	2.35	0.00	20.17	0.54	100
Central Hills	8.06	47.39	2.43	5.51	0.26	34.88	1.47	100
Central Tarai	4.26	62.31	0.18	4.86	0.00	28.2	0.18	100
Western Hills	4.64	40.41	0.19	1.22	0.00	30.12	23.41	100
Western Tarai	5.54	52.28	1.26	4.78	0.51	31.09	4.54	100
MidWest Hills	1.26	81.89	0.67	2.97	0.00	12.27	0.94	100
MidWest Tarai	1.05	70.85	0	1.3	0.00	25.71	1.1	100
FarWest Hills	1.16	56.45	0.42	6.17	0.00	35.8	0	100
FarWest Tarai	1.37	77.11	0.28	3.76	0.00	15.52	1.95	100
<b>Nepal</b>	<b>5.01</b>	<b>61.34</b>	<b>1.03</b>	<b>3.77</b>	<b>0.07</b>	<b>24.25</b>	<b>4.54</b>	<b>100</b>

Income as defined in the survey, measures the flow of resources or goods in a household during the last twelve months preceding the survey provides the information on quantity harvested, quantity sold, and sale price by crop. The basis for the measures are crops income, non-farm income, income from wage employment, trade, income from livestock farming and its product and other income.

The Table reports that the main source of income of vegetable holders comes from other farming (61 percent) followed by salary and wages (24 percent). The negligible share of this income is contributed from transport followed by income from livestock and poultry (1 percent), trade and business and other sources (4 percent each) and vegetable farming (5 percent). For the vegetable holders of Mountains, less than one percent of the income is contributed by vegetable farming

compared to 7 percent of this figure in Hills. The highest share of the income from vegetable farming can be seen in Eastern Hills domain (18 percent).

Table 2.6: Main Purpose of Vegetable Farming by Geographic Region

<b>Geographic Region</b>	<b>Main Purpose of Vegetable Farming</b>			<i>Percent</i>
	<b>Household Consumption</b>	<b>Commercial/Sale</b>	<b>Total</b>	
<b>Belt</b>				
Mountains	95.4	4.7	100	
Hills	84.7	15.3	100	
Tarai	77.6	22.4	100	
<b>Region</b>				
Eastern	71.2	28.8	100	
Central	77.8	22.2	100	
Western	90.3	9.7	100	
MidWest	92.5	7.5	100	
FarWest	95.4	4.6	100	
<b>Survey Domain</b>				
Mountains	95.4	4.7	100	
Eastern Hills	73.4	26.6	100	
Eastern Tarai	66.1	33.9	100	
Central Hills	77.4	22.6	100	
Central Tarai	75.5	24.5	100	
Western Hills	91.9	8.1	100	
Western Tarai	87.1	12.9	100	
MidWest Hills	92.7	7.3	100	
MidWest Tarai	92.4	7.7	100	
FarWest Hills	95.3	4.7	100	
FarWest Tarai	92.8	7.2	100	
<b>Nepal</b>	<b>82.1</b>	<b>17.9</b>	<b>100</b>	

A question was asked to the holder about the purpose of vegetable farming regarding whether it was mainly for household consumption or commercial/sale. At the national level, 82 percent of the holdings reported that their production was mainly used for household consumption. Only 18 percent of holdings grew vegetable crops for commercial or sale purpose.

Among ecological belts, Tarai reported the largest share of holdings (22 percent) that the agriculture produce is mainly for sale. Among development regions, majority of the households that used their vegetable production mainly for sale were Eastern followed by Central.





## **Chapter III**

### **Area and Use of Land**

Chapter III presents the area and land use of the vegetable holders by parcel. This includes all the agricultural land operated by the vegetable holders in addition to the vegetable farming. This chapter covers total number of parcels and their distribution, average number of parcel per holding, total area of parcels and their distribution, land use for cropping, irrigation facility in vegetable crops, source of irrigation in vegetable crops, and land ownership for vegetable crops.

#### **3.1 Land Use and Area**

For vegetable crops survey purposes, a parcel in agricultural holdings is any piece of land entirely surrounded by other land, water, road, forest, of other holdings, etc. not forming part of the holdings. A parcel may consist of one or more adjacent fields. The vegetable crop parcels should not be confused with the term parcel used in the cadastral survey work. In Nepal, the total number of parcels under vegetable crops was recorded as 4.4 million and 5.5 million parcels were under other crops to total an estimated number of parcels as 9.9 million. The number of parcels under vegetable crops is counted even a small portion of a parcel is used for vegetable cropping during the reference period.

Table 3.1 presents the total number of parcels and their distribution by geographic region. Out of the 9.993 million parcels of land estimated in the survey, 0.953 million parcels were located in the Mountains, 3.606 million were in Hills and the rest 5.374 million in Tarai belt. The shares of the number of parcels in Mountains, Hills and Tarai were 9.6, 36.3 and 54.1 percent respectively.

Table 3.1: Total Number of Parcels and their Distribution by Geographic Region

Geographic Region	Vegetable Crops		Other Crops		Total	
	Number of Parcel	Percent	Number of Parcel	Percent	Number of Parcel	Percent
<b>Belt</b>						
Mountains	414,395	9.4	538,775	9.8	953,169	9.6
Hills	1,876,531	42.5	1,729,418	31.3	3,605,949	36.3
Tarai	2,120,198	48.1	3,254,222	58.9	5,374,420	54.1
<b>Region</b>						
Eastern	1,038,381	23.5	1,097,233	19.9	2,135,613	21.5
Central	1,521,829	34.5	2,074,490	37.6	3,596,319	36.2
Western	968,759	22.0	1,166,659	21.1	2,135,419	21.5
MidWest	526,856	11.9	542,744	9.8	1,069,600	10.8
FarWest	355,298	8.1	641,289	11.6	996,587	10.0
<b>Survey Domain</b>						
Mountains	414,395	9.4	538,775	9.8	953,169	9.6
Eastern Hills	261,046	5.9	115,148	2.1	376,193	3.8
Eastern Tarai	658,588	14.9	835,691	15.1	1,494,279	15.0
Central Hills	673,350	15.3	433,755	7.9	1,107,105	11.1
Central Tarai	690,780	15.7	1,488,796	27.0	2,179,576	21.9
Western Hills	606,833	13.8	589,507	10.7	1,196,340	12.0
Western Tarai	361,927	8.2	577,153	10.5	939,079	9.5
MidWest Hills	226,702	5.1	327,860	5.9	554,561	5.6
MidWest Tarai	300,154	6.8	214,884	3.9	515,038	5.2
FarWest Hills	108,601	2.5	263,149	4.8	371,750	3.7
FarWest Tarai	108,749	2.5	137,698	2.5	246,447	2.5
<b>Nepal</b>	<b>4,411,123</b>	<b>100</b>	<b>5,522,414</b>	<b>100</b>	<b>9,933,538</b>	<b>100</b>

Table 3.2: Average Number of Parcel per Holding by Geographic Region

Geographic Region	Average Number of Parcel/Holding		
	Vegetable Crops	Other Crops	Total
<b>Belt</b>			
Mountains	1.61	2.99	2.39
Hills	1.64	3.12	2.35
Tarai	1.94	3.94	3.15
<b>Region</b>			
Eastern	1.59	3.58	2.61
Central	2.18	3.65	3.03
Western	1.72	3.85	2.88
MidWest	1.51	3.06	2.29
FarWest	1.20	3.42	2.63
<b>Survey Domain</b>			
Mountains	1.61	2.99	2.39
Eastern Hills	1.23	2.88	1.74
Eastern Tarai	1.78	3.81	2.92
Central Hills	1.94	2.60	2.20
Central Tarai	2.40	3.98	3.48
Western Hills	1.54	2.91	2.21
Western Tarai	2.02	4.80	3.73
MidWest Hills	1.59	3.30	2.60
MidWest Tarai	1.45	2.69	1.97
FarWest Hills	1.36	4.35	3.48
FarWest Tarai	1.08	2.68	1.97
<b>Nepal</b>	<b>1.78</b>	<b>3.59</b>	<b>2.79</b>

The average number of parcels per holding is small for vegetable crops since vegetable farming in most part of Nepal is done in terrace type of land due to its topography and prevalent nature of its farming.

At the national level, the average number of parcels per holding was 2.79 in total, 1.78 for vegetable crops and 3.59 for other crops. Among ecological belts, Tarai tops the average number of parcels per holding for vegetable crops (1.94) and this figure is the highest for Western Tarai domain, 2.0 for vegetable crops and 4.8 for other crops.

Table 3.3: Total Area of Parcels and their Distribution by Geographic Region

Geographic Region	Vegetable Crops		Other Crops Only		Total	
	Total Area (ha)	Percent	Total Area (ha)	Percent	Total Area (ha)	Percent
<b>Belt</b>						
Mountains	65,857	7.3	123,906	8.4	189,763	8.0
Hills	355,906	39.3	312,572	21.1	668,477	28.0
Tarai	484,048	53.4	1,042,846	70.5	1,526,894	64.0
<b>Region</b>						
Eastern	321,986	35.5	457,600	30.9	779,587	32.7
Central	251,802	27.8	442,365	29.9	694,166	29.1
Western	153,348	16.9	301,311	20.4	454,659	19.1
MidWest	132,080	14.6	148,697	10.1	280,777	11.8
FarWest	46,594	5.1	129,352	8.7	175,946	7.4
<b>Survey Domain</b>						
Mountains	65,857	7.3	123,906	8.4	189,763	8.0
Eastern Hills	122,069	13.5	37,773	2.6	159,842	6.7
Eastern Tarai	170,607	18.8	370,914	25.1	541,521	22.7
Central Hills	80,069	8.8	70,951	4.8	151,020	6.3
Central Tarai	146,102	16.1	351,566	23.8	497,668	20.9
Western Hills	94,635	10.4	129,620	8.8	224,255	9.4
Western Tarai	58,713	6.5	171,690	11.6	230,403	9.7
MidWest Hills	50,242	5.5	52,922	3.6	103,165	4.3
MidWest Tarai	81,837	9.0	95,775	6.5	177,612	7.4
FarWest Hills	8,891	1.0	21,305	1.4	30,195	1.3
FarWest Tarai	26,789	3.0	52,902	3.6	79,691	3.3
<b>Nepal</b>	<b>905,810</b>	<b>100</b>	<b>1,479,324</b>	<b>100</b>	<b>2,385,134</b>	<b>100</b>
<b>Percentage</b>	<b>38.0</b>	<b>-</b>	<b>62.0</b>	<b>-</b>	<b>100.0</b>	<b>-</b>

Table 3.3 presents the estimate of area of the parcels under vegetable crops and other crops. The second panel (column 2 and 3) shows the area of the parcels where at least once vegetable crop is grown wholly or partly during the year preceding the survey. The third panel (column 4 and 5) shows the area of the parcels where other crops were grown.

It is observed that the area of the parcels with some vegetable crops in any part of the parcel is about 905,810 hectares (38 percent) and area under other crops was estimated at 1,479,324 hectares (62 percent) of the total crop area (2,385,134 hectares) at national level. It should not be confused with the area purely under vegetable crops which is given in Table 5.1. Two third of the agricultural land area was covered by the Tarai giving space to only 8 percent of its share to the Mountains.

Table 3.4: Land Use for Cropping by Geographic Region

<b>Geographic Region</b>	<b>Land Use</b>		<i>Percent</i>
	<b>Vegetable Crops</b>	<b>Other Crops</b>	<b>Total</b>
<b>Belt</b>			
Mountains	43.5	56.5	100
Hills	52.0	48.0	100
Tarai	39.5	60.6	100
<b>Region</b>			
Eastern	48.6	51.4	100
Central	42.3	57.7	100
Western	45.4	54.6	100
MidWest	49.3	50.7	100
FarWest	35.7	64.4	100
<b>Survey Domain</b>			
Mountains	43.5	56.5	100
Eastern Hills	69.4	30.6	100
Eastern Tarai	44.1	55.9	100
Central Hills	60.8	39.2	100
Central Tarai	31.7	68.3	100
Western Hills	50.7	49.3	100
Western Tarai	38.5	61.5	100
MidWest Hills	40.9	59.1	100
MidWest Tarai	58.3	41.7	100
FarWest Hills	29.2	70.8	100
FarWest Tarai	44.1	55.9	100
<b>Nepal</b>	<b>44.4</b>	<b>55.6</b>	<b>100</b>

Land use refers to the major classification of the land by type of parcels in the holdings. An agricultural holding is classified either as agricultural land or as non-agricultural land. Generally the agricultural land is broadly classified into two categories, the crop land and land under ponds. The crop land is further categorized namely as arable land, land under permanent crops, land under permanent meadows and pasture.

Table 3.4 shows that the crop land use which is classified either as vegetable crops or as other crops. The percentage of the parcels where vegetable crops were grown during 12 months preceding the survey was 44.4. This number highest in Hills (52 percent) among the belts and lowest (29 percent) in FarWest Hills among the domains.

### 3.2 Irrigation on Vegetable Crops

Irrigation refers to purposively providing land with water, other than rain, for improving crop production. Natural flooding of land by rainfall or overflow of rivers is not considered as irrigation. Rainwater or uncontrolled flooding, which is collected and later used on the holding, is considered irrigation.

Table 3.5 presents the availability of irrigation facility in the parcels of vegetable crops. Around 62 percent of the parcels with vegetable crops had the irrigation facility. The irrigation facility to vegetable crops is not even among geographic distribution. Tarai records the highest percentage of irrigation facility (80 percent). The irrigation facility seems quite evenly distributed among development regions. Only 31 percent of parcels in MidWest Hills had the irrigation system for the vegetable crops.

Table 3.5: Irrigation Facility in Vegetable Crops by Geographic Region

<b>Geographic Region</b>	<b>Irrigation Facility</b>		<i>Percent</i>
	<b>Yes</b>	<b>No</b>	<b>Total</b>
<b>Belt</b>			
Mountains	42.8	57.2	100
Hills	45.2	54.8	100
Tarai	80.3	19.7	100
<b>Region</b>			
Eastern	66.0	34.0	100
Central	62.1	37.9	100
Western	60.8	39.2	100
MidWest	57.9	42.1	100
FarWest	57.3	42.7	100
<b>Survey Domain</b>			
Mountains	42.8	57.2	100
Eastern Hills	36.7	63.3	100
Eastern Tarai	81.9	18.1	100
Central Hills	49.7	50.3	100
Central Tarai	80.6	19.4	100
Western Hills	49.7	50.3	100
Western Tarai	79.5	20.6	100
MidWest Hills	31.5	68.5	100
MidWest Tarai	77.9	22.2	100
FarWest Hills	41.3	58.7	100
FarWest Tarai	78.7	21.4	100
<b>Nepal</b>	<b>61.9</b>	<b>38.1</b>	<b>100</b>

Table 3.6: Source of Irrigation in Vegetable Crops by Geographic Region

Geographic Region	Source of Irrigation						Percent
	Permanent Canal	Seasonal Canal	Pond/Well	Tube well/Boring	Drip Irrigation	Others	Total
<b>Belt</b>							
Mountains	38.1	9.3	5.7	0.0	0.0	46.9	100
Hills	39.0	14.5	4.0	2.7	2.4	37.4	100
Tarai	18.8	6.3	6.3	63.1	1.1	4.4	100
<b>Region</b>							
Eastern	23.0	4.0	1.9	61.1	0.0	9.9	100
Central	27.4	15.3	5.7	39.6	1.3	10.8	100
Western	22.0	3.6	7.2	27.8	1.2	38.3	100
MidWest	37.2	12.7	8.5	29.7	6.4	5.5	100
FarWest	28.6	7.3	8.1	24.6	0.2	31.3	100
<b>Survey Domain</b>							
Mountains	38.1	9.3	5.7	0.0	0.0	46.9	100
Eastern Hills	43.0	9.1	2.5	2.0	0.3	43.2	100
Eastern Tarai	18.4	2.5	0.4	77.3	0.0	1.4	100
Central Hills	40.5	22.8	2.0	6.2	2.1	26.4	100
Central Tarai	16.2	10.6	8.1	63.5	0.9	0.8	100
Western Hills	34.1	4.2	1.8	0.0	2.3	57.6	100
Western Tarai	9.3	3.0	12.8	56.9	0.0	18.1	100
MidWest Hills	47.8	22.3	4.3	0.0	8.1	17.6	100
MidWest Tarai	34.0	9.8	9.8	38.8	5.9	1.8	100
FarWest Hills	39.1	21.5	36.6	0.0	0.9	2.0	100
FarWest Tarai	27.6	4.5	0.1	58.5	0.0	9.4	100
<b>Nepal</b>	<b>26.3</b>	<b>9.1</b>	<b>5.5</b>	<b>40.2</b>	<b>1.4</b>	<b>17.4</b>	<b>100</b>

Land under irrigation is shown in the Table 3.6 according to source of irrigation water. The sources given are permanent canal (continuous flow throughout the year), natural canal (seasonal flow only), pond/well, tube well /boring, drip irrigation, and others. "Others" includes taking the irrigation water directly from a river or stream, or a combination of other sources.

Tube well or boring is the most popular source of irrigation for vegetable crops in Nepal. Forty percent of the vegetable parcels were irrigated by means of tube well /boring. Permanent canals share 26 percent and other sources of irrigation accounts 17 percent. Permanent canal is more prevalent in Hills and tube well/boring in Tarai. The drip irrigation, used only in vegetable crops was reported in MidWestern part of Nepal.

Table 3.7: Land Ownership for Vegetable Crops by Geographic Region

<b>Geographic Region</b>	<b>Land Ownership</b>			<i>Percent</i>
	<b>Owned</b>	<b>Rented In</b>	<b>Others</b>	<b>Total</b>
<b>Belt</b>				
Mountains	96.25	3.75	0.00	100
Hills	96.24	3.70	0.05	100
Tarai	94.22	5.27	0.51	100
<b>Region</b>				
Eastern	94.54	4.67	0.80	100
Central	94.41	5.56	0.03	100
Western	94.89	4.87	0.25	100
MidWest	97.87	2.00	0.13	100
FarWest	98.31	1.69	0.00	100
<b>Survey Domain</b>				
Mountains	96.25	3.75	0.00	100
Eastern Hills	96.47	3.42	0.11	100
Eastern Tarai	93.64	5.15	1.21	100
Central Hills	95.55	4.45	0.00	100
Central Tarai	93.46	6.46	0.07	100
Western Hills	95.95	4.05	0.00	100
Western Tarai	93.11	6.23	0.66	100
MidWest Hills	98.64	1.07	0.30	100
MidWest Tarai	97.30	2.70	0.00	100
FarWest Hills	96.71	3.29	0.00	100
FarWest Tarai	97.76	2.24	0.00	100
<b>Nepal</b>	<b>95.27</b>	<b>4.46</b>	<b>0.27</b>	<b>100</b>

The majority of the holdings in Nepal have own land for vegetable farming. Nepal Vegetable Crops Survey 2009-10 shows that 95 percent of the total vegetable parcels were owned by the holders and about 5 percent of them were rented in. In Tarai, especially in the Central and Western part of Nepal, there was a tendency to rent in the land for vegetable farming.



## Chapter IV

### Expenditure on Vegetable Farming

In this chapter, different farm inputs (expenditure) and their totals by geographic region and by vegetable crops are included.

Nepal Vegetable Crops Survey 2009-10 collected information about different farm inputs (current expenditure) on monthly basis. They are land rented/contracted-in, land preparation (ploughing, fencing), number of temporary workers hired, purchase/production of seeds/seedlings, tunnel/shade/staking support construction, irrigation (fuel/electricity/water), organic/local fertilizer, chemical fertilizer, pesticides, vitamins, purchase of ordinary agricultural tools, minor repair of equipment, packing, transportation, and others. Table 4.1 shows the farm input of different activities to farm vegetables.

Table 4.1 shows that the total farm input in Nepal is estimated at 9 billion rupees. This total does not include the cost on temporarily hired labours and the cost of land rent (around 1.4 billion rupees) as they are not considered as intermediate consumption. The largest share of farm input is on organic fertilizer which was about 2.3 billion rupees, 26 percent of the total farm input followed by purchase/production of seeds/seedlings (22 percent) and land preparation (16 percent). Miscellaneous, packing and tools repair expenditure had less than one percent contribution to the total farm input.

Among ecological belt, the Hills has the highest share of agricultural input Rs. 4.5 billion (49.3 percent) and the Mountains has the lowest share of 7.4 percent (Rs. 675 million). The highest figure of vegetable farm input is observed in Central development region which stands at 3.8 billion rupees (42 percent). The MidWest region spends the lowest input of 500 million rupees (5.5 percent). The Central Hills tops the current expenditure on vegetable farming with Rs. 2 billion (22.1 percent) whereas the FarWest Hills has the lowest input of Rs. 55 million only which is less than one percent of the total vegetable farm expenditure.

The cost of temporarily hired labours is highest in the Tarai which is about 52 percent of total labour cost of Nepal. The land rent cost is the highest in Tarai (59 percent).

The total farm input has been disaggregated by 53 vegetable crops. Table 4.2 shows that the highest share of the current expenditure was contributed by cauliflower at 1.6 billion rupees (18 percent). Tomato stood second to the farm input contribution with Rs. 1.3 billion (14 percent) and the third one is cabbage with Rs. 0.8 billion (8 percent). The lowest contributors are other vegetable, other tuber vegetable, turnip, knolkhol, buckwheat leaf and ash gourd all of their contributions being less than 0.1 percent.

About a quarter of the hired labour cost has been covered by cauliflower. Tomato and cabbage stood second and third in the labour cost with their contribution of 18 and 11 percent respectively.

Almost half of the land rent cost goes to cauliflower. Cabbage has 12 percent of the total land rent cost in Nepal whereas there is 8 percent of land rent cost is occupied by the vegetable tomato.

Table 4.1: Farm Inputs and their Totals by Geographic Region

<i>Thousand Rupees</i>															
<b>Geographic Region</b>	<b>Temporary Hired Labor</b>	<b>Land Rent</b>	<b>Land preparation</b>	<b>Seed/Seedling</b>	<b>Tunnel</b>	<b>Irrigation</b>	<b>Organic Fertilizer</b>	<b>Chemical Fertilizer</b>	<b>Pesticide</b>	<b>Tools Purchas</b>	<b>Tools Repair</b>	<b>Packing</b>	<b>Trans port</b>	<b>Other</b>	<b>Total</b>
<b>Belt</b>															
Mountains	24,747	6,575	155,321	155,107	50,676	26,531	232,719	18,008	7,882	17,031	9,537	0	1,775	0	674,587
Hills	547,115	96,463	601,671	929,815	387,654	38,114	1,351,869	505,004	465,572	59,136	31,385	13,821	69,964	17,500	4,471,504
Tarai	618,256	150,210	700,885	885,226	219,126	283,771	764,069	514,876	329,052	24,073	13,105	44,799	132,425	11,058	3,922,466
<b>Region</b>															
Eastern	458,071	55,928	555,734	552,454	286,780	78,199	504,579	275,370	323,780	38,507	12,813	972	40,186	5,639	2,675,014
Central	587,368	182,540	454,985	700,850	209,486	151,399	1,081,230	563,866	358,380	33,320	22,293	55,984	154,429	18,332	3,804,553
Western	105,879	10,880	196,864	379,205	123,134	65,797	501,851	141,903	90,219	12,516	8,945	1,542	7,550	4,572	1,534,099
MidWest	31,488	2,429	100,045	184,324	9,936	14,831	117,983	45,898	23,463	702	618	123	1,570	14	499,507
FarWest	7,311	1,472	150,249	153,315	28,120	38,190	143,013	10,852	6,665	15,195	9,358	0	428	0	555,385
<b>Survey Domain</b>															
Mountains	24,747	6,575	155,321	155,107	50,676	26,531	232,719	18,008	7,882	17,031	9,537	0	1,775	0	674,587
Eastern Hills	260,785	25,720	259,120	285,009	171,025	5,563	321,337	121,203	212,613	23,036	4,652	0	29,277	1,568	1,434,404
Eastern Tarai	176,940	23,748	256,062	226,096	82,752	68,982	96,499	139,541	104,290	9,644	4,974	972	9,135	4,071	1,003,017
Central Hills	228,624	66,106	221,467	351,795	129,441	26,187	639,389	311,633	213,297	26,754	20,686	13,694	39,118	13,601	2,007,062
Central Tarai	357,165	116,319	230,819	324,179	79,459	125,212	398,494	249,340	144,221	6,506	1,568	42,290	115,311	4,731	1,722,129
Western Hills	49,141	2,450	79,852	193,226	82,164	5,442	339,515	44,291	21,714	6,824	3,988	4	159	2,316	779,495
Western Tarai	56,738	8,430	117,012	185,980	40,970	60,355	162,336	97,611	68,505	5,692	4,957	1,538	7,391	2,255	754,604
MidWest Hills	6,083	2,176	33,893	74,136	3,833	900	38,497	27,020	14,413	595	419	123	1,359	14	195,201
MidWest Tarai	25,404	253	66,153	110,188	6,103	13,930	79,485	18,879	9,050	107	198	0	211	0	304,305
FarWest Hills	2,481	11	7,340	25,649	1,191	21	13,130	857	3,535	1,927	1,641	0	51	0	55,341
FarWest Tarai	2,009	1,461	30,840	38,783	9,841	15,292	27,254	9,505	2,986	2,125	1,408	0	377	0	138,411
<b>Nepal</b>	<b>1,190,118</b>	<b>253,248</b>	<b>1,457,878</b>	<b>1,970,147</b>	<b>657,456</b>	<b>348,416</b>	<b>2,348,656</b>	<b>1,037,889</b>	<b>802,506</b>	<b>100,240</b>	<b>54,027</b>	<b>58,621</b>	<b>204,164</b>	<b>28,558</b>	<b>9,068,557</b>
<b>Percentage</b>			<b>16.08</b>	<b>21.73</b>	<b>7.25</b>	<b>3.84</b>	<b>25.90</b>	<b>11.44</b>	<b>8.85</b>	<b>1.11</b>	<b>0.60</b>	<b>0.65</b>	<b>2.25</b>	<b>0.31</b>	<b>100</b>

Table 4.2: Different Farm Inputs and their Total by Vegetable Crops&gt;&gt;&gt;

*Thousand Rupees*

Vegetable Name	Temporary Hired Labor	Land Rent	Land preparation	Seed/Seedling	Tunnel	Irrigation	Organic Fertilizer	Chemical Fertilizer	Pesticide	Tools Purchas	Tools Repair	Packing	Trans port	Other	Total	Percent
Cauliflower	290,086	121,285	279,103	321,367	8,656	79,576	369,529	295,100	163,065	20,983	15,186	14,099	41,698	7,893	1,616,256	<b>17.82</b>
Cabbage	133,270	30,835	115,519	146,367	9,095	20,089	219,424	115,079	71,751	8,611	2,705	17,486	42,637	763	769,527	<b>8.49</b>
Broccoli	3,238	3,591	3,733	6,839	237	2,182	13,460	5,355	4,165	210	96	0	18	0	36,294	<b>0.40</b>
Knolkhol	273	0	499	905	0	52	1,090	734	41	0	5	0	0	0	3,326	<b>0.04</b>
Tomato	211,086	21,236	151,946	174,399	195,893	20,895	231,921	169,533	283,081	17,435	3,394	11,302	44,969	2,596	1,307,364	<b>14.42</b>
Brinjal/Eggplant	49,989	12,424	62,980	49,287	1,119	25,028	31,188	57,359	33,467	3,543	948	0	3,929	155	269,003	<b>2.97</b>
Bitter gourd	18,913	648	16,836	32,726	61,172	11,092	37,665	24,317	24,127	962	137	2,785	6,812	126	218,756	<b>2.41</b>
Lady's finger/Okra	36,265	6,888	37,974	42,182	537	14,320	50,312	32,405	20,761	975	502	1,208	4,850	457	206,483	<b>2.28</b>
Hot pepper/Chilli	27,006	1,635	38,917	66,567	546	12,476	66,635	26,168	15,826	1,407	261	0	183	47	229,032	<b>2.53</b>
Scotch bonnet chilli	2,998	0	6,283	10,493	145	678	10,864	1,663	590	132	51	0	1,115	2,051	34,065	<b>0.38</b>
Sweet pepper	3,178	0	2,953	7,040	391	724	4,396	3,896	5,692	0	3	0	0	0	25,096	<b>0.28</b>
Cucumber	40,976	3,530	33,597	61,688	46,136	10,231	81,102	41,314	33,930	1,966	944	1,458	5,133	947	318,446	<b>3.51</b>
Pumpkin	12,702	436	30,468	26,965	22,631	6,795	50,777	9,375	6,436	360	445	721	2,431	179	157,583	<b>1.74</b>
Squash	6,763	1,907	5,889	6,915	916	2,583	10,385	4,445	6,414	0	24	0	1,055	21	38,647	<b>0.43</b>
Bottle gourd	30,476	1,981	25,936	27,030	26,972	14,325	33,097	25,440	22,196	1,128	296	4,466	10,404	239	191,529	<b>2.11</b>
Sponge/Ridge gourd	6,416	1,236	9,173	19,310	25,907	3,932	22,266	6,933	3,597	326	433	5	441	1,379	93,702	<b>1.03</b>
Snake gourd	1,595	0	1,064	5,175	1,848	443	6,472	1,133	1,418	24	2	173	4,026	0	21,778	<b>0.24</b>
Balsam apple	1,243	2	596	3,528	8,898	10	3,826	1,768	904	0	131	0	59	17	19,736	<b>0.22</b>
Chayote/Christophine	7,744	0	1,711	11,689	98,011	53	24,196	2,428	523	123	69	0	390	307	139,501	<b>1.54</b>
Pointed gourd	6,670	2,241	581	1,879	3,218	1,755	2,462	3,283	7,163	197	0	0	3,278	328	24,145	<b>0.27</b>
Ash gourd	223	0	152	1,792	763	53	853	6	0	2	0	0	0	23	3,643	<b>0.04</b>
Watermelon	898	0	3,032	9,792	0	3,144	1,285	2,974	1,892	90	126	0	696	0	23,030	<b>0.25</b>
Other Cucurbitaceae	8,639	1,876	14,810	6,614	8,393	5,486	5,507	9,283	3,857	436	178	211	814	659	56,248	<b>0.62</b>
Pea	12,559	220	23,225	31,388	9,960	2,855	35,308	7,513	2,190	126	188	0	201	0	112,955	<b>1.25</b>
Bean	43,094	645	59,440	62,288	59,945	6,347	105,972	29,645	25,515	2,259	1,814	1,746	4,772	2,533	362,274	<b>3.99</b>
Asparagus bean	52,105	7,207	49,570	70,614	49,119	10,897	81,370	33,569	35,315	1,576	1,453	2,384	11,426	1,179	348,471	<b>3.84</b>
Broad bean	2,326	0	5,421	7,722	216	367	10,376	1,359	488	6	232	0	180	68	26,437	<b>0.29</b>
Soya bean	1,065	0	1,376	3,491	69	199	3,393	558	344	0	0	0	212	0	9,643	<b>0.11</b>
Other Leguminosae	2,154	191	1,991	3,529	779	363	3,167	389	389	10	0	0	0	0	10,618	<b>0.12</b>

Table 4.2: Different Farm Inputs and their Total by Vegetable Crops&lt;&lt;&lt;

<i>Thousand Rupees</i>																
Vegetable code	Temporary Hired Labor	Land Rent	Land preparation	Seed/ Seedling	Tunnel	Irrigatio n	Organic Fertilizer	Chemical Fertilizer	Pesticide	Tools Purchas	Tools Repair	Packing	Transpo rt	Other	Total	Percent
Broad leaf mustard	22,775	516	79,594	53,934	104	11,699	161,000	19,836	7,008	16,971	11,486	4	3,235	2,139	367,010	<b>4.05</b>
Ground cress	1,497	47	7,441	6,231	9	1,236	10,708	3,179	783	123	259	0	147	0	30,116	<b>0.33</b>
Spinach	1,006	47	6,367	6,966	41	2,024	8,661	2,383	835	63	75	0	2	4	27,419	<b>0.30</b>
Mustard leaf	4,136	241	12,279	10,955	29	352	17,444	2,267	476	287	159	0	265	0	44,513	<b>0.49</b>
Buckwheat leaf	620	516	986	1,178	0	0	1,330	94	0	0	0	0	0	16	3,604	<b>0.04</b>
Fenugreek leaf	122	47	4,916	4,318	9	1,289	5,608	233	18	2	187	0	54	0	16,634	<b>0.18</b>
Garlic Green	9,185	719	16,156	28,295	8	4,385	23,969	5,705	908	459	196	0	435	253	80,771	<b>0.89</b>
Onion Green	2,858	868	18,096	27,049	37	7,651	23,184	4,624	1,213	1,456	452	73	0	93	83,928	<b>0.93</b>
Pumpkin shoot	7,334	301	18,823	10,274	9,086	1,315	32,428	3,773	1,425	999	831	0	1,418	264	80,637	<b>0.89</b>
Colocasia leaf	218	0	1,365	10,051	0	46	9,452	380	56	0	0	0	0	13	21,363	<b>0.24</b>
Other Leafy Vegetable	1,467	1,515	14,884	16,629	281	3,770	15,539	5,058	2,616	129	436	0	691	579	60,612	<b>0.67</b>
Radish	34,818	13,906	88,181	69,991	24	7,471	135,360	18,258	2,530	3,899	3,003	360	2,359	695	332,130	<b>3.66</b>
Turnip	0	0	172	886	0	159	1,344	158	53	0	0	0	0	0	2,772	<b>0.03</b>
Carrot	9,662	0	2,861	18,835	14	275	15,093	1,608	316	0	1	0	44	0	39,045	<b>0.43</b>
Onion	49,129	13,346	73,520	146,736	1,017	33,633	111,691	32,530	3,745	2,882	1,403	73	1,920	485	409,635	<b>4.52</b>
Garlic	17,454	1,145	65,785	164,128	555	12,244	110,764	17,075	3,275	3,766	1,327	0	1,484	1,304	381,705	<b>4.21</b>
Other Root Vegetable	1,347	0	2,522	4,713	191	58	2,995	451	0	0	534	0	355	48	11,866	<b>0.13</b>
Yam	548	0	415	12,594	3,541	0	14,402	249	108	0	25	69	0	0	31,403	<b>0.35</b>
Colocasia/Arum	7,422	17	49,756	127,465	399	425	111,603	1,415	368	5,919	3,725	0	27	333	301,436	<b>3.32</b>
Elephant foot yam	1,339	0	1,222	4,833	0	768	872	2,959	787	0	0	0	0	9	11,451	<b>0.13</b>
Sweet potato	2,741	0	7,491	10,851	165	2,610	10,779	2,406	685	398	304	0	0	355	36,044	<b>0.40</b>
Other Tuber Vegetabl	410	0	40	1,785	375	0	311	0	0	0	0	0	0	0	2,512	<b>0.03</b>
Asparagus	83	0	124	11,612	0	41	5,692	220	165	0	0	0	0	0	17,855	<b>0.20</b>
Other Vegetable	0	0	106	256	0	17	125	0	0	0	0	0	0	0	504	<b>0.01</b>
<b>Total</b>	<b>1,190,118</b>	<b>253,248</b>	<b>1,457,878</b>	<b>1,970,147</b>	<b>657,456</b>	<b>348,416</b>	<b>2,348,656</b>	<b>1,037,889</b>	<b>802,506</b>	<b>100,240</b>	<b>54,027</b>	<b>58,621</b>	<b>204,164</b>	<b>28,558</b>	<b>9,068,557</b>	<b>100</b>



## **Chapter V**

### **Production and Uses of Vegetables**

There were 55 vegetable crop groups identified in the vegetable crops survey. The "other cole crops" were not reported in the survey and the chayote/christophine shoot was merged with chayote/christophine fruits as there is no practice to cultivate chayote/christophine for the purpose of shoot alone. So, the subsequent tables represent the remaining 53 vegetable crops/groups irrespective of their frequency. Chapter V presents the results of total holdings, area, production, consumption, sales and yield of vegetable crops by geographic region, and total number of holdings, area, production, consumption, sales and yield of vegetable crops by vegetable crops for different geographic regions (National, 3 ecological belts, 5 development regions and 11 survey domains). The first table (Table 5.1) presents those information for all the vegetable crops collected in the survey.

#### **5.1 Total Number of Holdings, Area, Production, Household Consumption, Sales and Yield**

There are 21 tables related to name of the vegetables both in Nepali and in English, total number of estimated holdings, total area under vegetable crops in hectare, total production of each vegetable in metric tons, household consumption and sales of vegetable crops in metric tons and yield (productivity) in kilogram per hectare. They are Table 5.2: National (1), Table 5.3.1-5.3.3: Ecological Belts (3), Table 5.4.1-5.4.5: Development Regions (5) and Table 5.5.1-5.5.10: Survey Domain (10). The number of tables in 11 domains are 10 only as one domain, Mountains is presented under ecological belt.

Table 5.1: Total Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops by Geographic Region

Geographic Region	Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	HH Consumption (%)	Sales (mt)	Sales (%)	Yield (kg/ha)
<b>Belt</b>								
Mountains	303,304	11,564	121,565	102,738	84.5	18,828	15.5	10,512
Hills	1,310,087	103,555	1,261,041	494,138	39.2	766,903	60.8	12,177
Tarai	1,630,130	117,176	1,437,921	503,834	35.0	934,087	65.0	12,271
<b>Region</b>								
Eastern	838,583	74,778	894,877	361,102	40.4	533,775	59.6	11,967
Central	1,039,047	88,987	1,191,119	349,950	29.4	841,169	70.6	13,385
Western	672,220	39,668	434,210	179,875	41.4	254,335	58.6	10,946
MidWest	387,592	18,084	199,756	138,904	69.5	60,853	30.5	11,046
FarWest	306,078	10,778	100,566	70,880	70.5	29,686	29.5	9,331
<b>Survey Domain</b>								
Mountains	303,304	11,564	121,565	102,738	84.5	18,828	15.5	10,512
Eastern Hills	220,865	31,761	448,348	135,338	30.2	313,010	69.8	14,116
Eastern Tarai	517,786	38,823	396,877	185,706	46.8	211,172	53.2	10,223
Central Hills	397,466	41,661	493,274	177,336	36.0	315,938	64.0	11,840
Central Tarai	557,339	44,355	658,700	136,700	20.8	522,000	79.2	14,851
Western Hills	445,644	21,654	207,025	99,642	48.1	107,383	51.9	9,561
Western Tarai	226,577	18,013	227,185	80,232	35.3	146,952	64.7	12,612
MidWest Hills	163,686	6,584	90,992	67,689	74.4	23,303	25.6	13,820
MidWest Tarai	223,906	11,500	108,764	71,215	65.5	37,550	34.5	9,458
FarWest Hills	82,427	1,895	21,402	14,133	66.0	7,269	34.0	11,294
FarWest Tarai	104,522	4,485	46,395	29,981	64.6	16,414	35.4	10,344
<b>Nepal</b>	<b>3,243,521</b>	<b>232,295</b>	<b>2,820,527</b>	<b>1,100,710</b>	<b>39.0</b>	<b>1,719,818</b>	<b>61.0</b>	<b>12,142</b>

Table 5.1 presents total number of holdings, total area vegetable crops planted, total production of vegetable crops, its use as household consumption and sale and the yield rate in kilogramme per hectare. There were 3,243,521 vegetable holding reported in Nepal. Tarai accommodates most of the vegetable holding (1.6 million). Total area under vegetable crops was estimated at 232,295 hectares. The total production of the vegetable crops turned out to be 2,820,527 metric tons where total household consumption contributed 1,100,710 metric tons (39 percent) and total sale contributed 1,719,818 (61 percent) in terms of the volume of the production. The proportion of sale was the highest in Central Tarai (79.2 percent) and the lowest proportion is noted in Mountains (15.5 percent).

The aggregate yield rate of vegetable crops was observed 12,142 kilogram per hectare. The highest yield rate was found in Central Tarai (14,851 kg/ha) and the lowest rate was found in FarWest development region (9,331 kg/ha).



The broad leaf mustard is found to be the most common vegetable crop in Nepal. Out of 3.2 millions of vegetable holders 2.3 million holders (70 percent) cultivated this crop. The crops that follow broad leaf mustard in terms of number of farming are radish (2.1 million), pumpkin (1.8 million), and bean and garlic (1.6 million each).

Total area under vegetable crops was estimated at 232,295 hectares. Cauliflower is number one vegetable crop in terms of area planted. The area is 33,172 hectares and it is 14 percent of the total area under vegetable crops. The vegetable crops that follow the rank of cauliflower in terms of area planted are tomato (19,724 hectares), cabbage (14,306 hectares), radish (13,030 hectares) and asparagus bean (11,977 hectares).

The total production of the vegetable crops in Nepal is 2,820,527 metric tons. Cauliflower has the highest share of 14 percent in vegetable production (404,580 metric tons). Tomato (317,657 metric tons), cabbage (302,067 metric tons), pumpkin (166,424 metric tons) and radish (164,076 metric tons) are other vegetable crops with higher production.

The commercial vegetables are those which are cultivated for the purpose of sale. The most common commercial vegetables are found as cauliflower (339,273 metric tons), tomato (283,999 metric tons) and cabbage (269,294 metric tons) in terms of production sold.

The highest share on household consumption was found in colocasia leaf (94.5 percent), colocasia/arum (88 percent) and broad bean (87.6 percent). The lowest proportion of household consumption was observed in squash (4.6 percent), watermelon (7.2 percent), tomato (10.6 percent) and cabbage (10.8 percent).

The highest yield rate is observed at 41,661 kilogram per hectare for chayote/christophine. The yield rate of ash gourd, yam, squash and cabbage is 27,562 kg/ha, 26,200 kg/ha, 23,964 kg/ha and 21,115 kg/ha respectively with higher values. The lowest yield rate is estimated for buckwheat leaf (2,557 kg/ha) and asparagus (2,791 kg/ha).

The yield rate of staking type of vegetable crops such as pumpkin, cucumber, sponge/ridge gourd, bitter gourd, bottle gourd, bean, chayote/christophine, snake gourd, yam, balsam apple, ash gourd, asparagus bean and watermelon are not readily comparable with other crops. In many cases, these crops were recorded as the scattered plants and their areas are imputed based on some reported cases of both area and production. The vegetable crops grown on the support might need to be adjusted for the true value of the area covered by those crops with the help of the expert which is not done in this survey report.

Table 5.2: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, Nepal>>>

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
काउली / फूलगोभी	Cauliflower	1,283,042	33,172	404,580	65,307	339,273	12,196
बन्दागोभी / पातगोभी	Cabbage	772,680	14,306	302,067	32,772	269,294	21,115
ब्रोकाउली	Broccoli	74,220	675	6,305	1,825	4,480	9,341
ग्याँठगोभी	Knolkhol	19,137	100	717	570	147	7,170
गोलभेंडा / टमाटर	Tomato	1,142,042	19,724	317,657	33,658	283,999	16,105
भन्टा / बैगन	Brinjal/Eggplant	795,909	8,172	100,779	30,153	70,626	12,332
करेलो	Bitter gourd	1,084,951	4,250	46,352	18,672	27,680	10,906
भिँडी / रामतोरियाँ	Lady's finger/Okra	809,238	7,473	59,121	23,085	36,035	7,911
पीरो खुर्सानी	Hot pepper/Chilli	1,309,164	7,007	36,481	16,140	20,341	5,206
अकबरे खुर्सानी	Scotch bonnet chilli	114,754	873	3,103	1,056	2,047	3,554
भिँडे / माछा खुर्सानी	Sweet pepper	40,354	530	3,497	651	2,846	6,598
काँक्रो	Cucumber	1,384,348	8,634	143,070	48,118	94,952	16,571
फर्सी	Pumpkin	1,828,274	9,757	166,424	114,277	52,147	17,057
जुफिनी फर्सी	Squash	37,503	844	20,226	922	19,304	23,964
लौका	Bottle gourd	990,196	6,969	123,661	48,094	75,567	17,744
घिरौँलो / तिरही	Sponge/Ridge gourd	1,345,889	3,830	60,346	41,596	18,749	15,756
चिचिन्डो	Snake gourd	417,955	598	9,513	6,312	3,201	15,908
बरेलो	Balsam apple	184,665	443	8,184	5,915	2,269	18,474
इस्कस	Chayote/Christophine	773,315	3,566	148,564	105,892	42,672	41,661
परवर	Pointed gourd	18,902	1,614	9,777	1,342	8,434	6,058
कुभिन्डो	Ash gourd	190,084	315	8,682	6,813	1,868	27,562
तरबुजो	Watermelon	7,206	676	11,561	832	10,729	17,102
अन्य फल तरकारी	Other Cucurbitaceae	166,285	2,631	18,438	5,863	12,575	7,008
मटरकोसा	Pea	279,685	3,911	14,170	7,411	6,759	3,623
सिमी	Bean	1,618,108	10,594	81,781	40,804	40,977	7,720
बोडी	Asparagus bean	1,325,946	11,977	102,201	31,840	70,360	8,533
बकुला	Broad bean	283,948	1,126	4,208	3,685	524	3,737
भटमासकोसा	Soya bean	95,672	475	2,178	1,600	578	4,585
अन्य कोसे तरकारी	Other Leguminosae	112,419	446	2,869	2,357	512	6,433

Table 5.2: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, Nepal<<<

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
रायोको साग	Broad leaf mustard	2,267,068	9,950	116,995	91,161	25,834	11,758
चम्सुरको साग	Ground cress	262,566	644	3,665	2,521	1,144	5,691
पालुङ्गेको साग	Spinach	263,713	696	4,454	3,114	1,340	6,399
तोरीको साग	Mustard leaf	402,821	2,074	12,731	10,584	2,147	6,138
फापरको साग	Buckwheat leaf	35,000	201	514	331	184	2,557
मेथीको साग	Fenugreek leaf	145,194	336	1,397	1,181	216	4,158
हरियो लसुन	Garlic Green	427,058	1,568	5,821	3,814	2,007	3,712
हरियो प्याज	Onion Green	350,305	1,705	11,262	6,427	4,835	6,605
फर्सीको मुन्टा	Pumpkin shoot	950,056	4,651	36,647	30,174	6,473	7,879
कर्कलो / गाभा	Colocasia leaf	320,913	753	4,061	3,837	224	5,393
अन्य साग	Other Leafy Vegetable	509,316	2,176	13,189	4,642	8,547	6,061
मूला	Radish	2,050,356	13,030	164,076	83,466	80,610	12,592
सलगम / गान्टेमूला	Turnip	26,979	109	741	611	130	6,798
गाजर	Carrot	117,146	639	9,582	1,465	8,117	14,995
प्याज	Onion	1,273,113	10,938	87,159	57,726	29,432	7,968
लसुन	Garlic	1,570,814	7,804	34,831	24,688	10,143	4,463
अन्य जरे तरकारी	Other Root Vegetable	49,001	513	2,907	1,487	1,420	5,667
तरुल	Yam	447,687	580	15,196	11,525	3,671	26,200
पिँडालु	Colocasia/Arum	853,395	6,947	56,944	50,094	6,850	8,197
ओल	Elephant foot yam	22,948	292	2,544	902	1,641	8,712
सखरखण्ड	Sweet potato	175,823	1,545	14,077	10,004	4,074	9,111
अन्य कन्दमूल	Other Tuber Vegetable	70,126	276	4,347	3,018	1,329	15,750
कुरिलो	Asparagus	8,298	110	307	55	252	2,791
अन्य तरकारी	Other Vegetable	12,732	72	569	317	252	7,903
<b>Nepal</b>		<b>3,243,521</b>	<b>232,295</b>	<b>2,820,527</b>	<b>1,100,710</b>	<b>1,719,818</b>	<b>12,142</b>

Table 5.3.1: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, Mountains>>>

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
काउली / फूलगोभी	Cauliflower	67,625	449	3,641	1,929	1,711	8,109
बन्दागोभी / पातगोभी	Cabbage	30,297	275	2,982	1,381	1,601	10,844
ब्रोकाउली	Broccoli	423	68	21	13	8	309
ग्याँठगोभी	Knolkhol						
गोलभेंडा / टमाटर	Tomato	81,403	287	2,812	1,607	1,205	9,798
भन्टा / बैगन	Brinjal/Eggplant	80,516	256	2,189	1,154	1,036	8,551
करेलो	Bitter gourd	101,690	132	1,402	1,214	188	10,621
भिँडी / रामतोरियाँ	Lady's finger/Okra	28,412	75	1,052	370	681	14,027
पीरो खुर्सानी	Hot pepper/Chilli	159,201	599	2,727	2,100	627	4,553
अकबरे खुर्सानी	Scotch bonnet chilli	40,185	84	314	310	4	3,738
भिँडे / माछा खुर्सानी	Sweet pepper						
काँक्रो	Cucumber	200,776	392	7,511	5,443	2,068	19,161
फर्सी	Pumpkin	264,346	483	13,782	12,717	1,064	28,534
जुकिनी फर्सी	Squash	2,754	53	367	107	260	6,925
लौका	Bottle gourd	55,832	77	1,588	1,128	459	20,623
घिरौलो / तिरही	Sponge/Ridge gourd	88,603	99	2,019	1,814	205	20,394
चिचिन्डो	Snake gourd	7,898	6	129	95	34	21,500
बरेलो	Balsam apple	8,341	4	78	65	13	19,500
इस्कूस	Chayote/Christophine	176,848	380	16,160	15,008	1,153	42,526
परवर	Pointed gourd	662	1	7	7	0	7,000
कुभिन्डो	Ash gourd	25,456	31	842	807	35	27,161
तरबुजो	Watermelon						
अन्य फल तरकारी	Other Cucurbitaceae	24,452	56	417	376	41	7,446
मटरकोसा	Pea	9,944	42	249	187	62	5,929
सिमी	Bean	132,248	523	3,549	3,164	385	6,786
बोडी	Asparagus bean	93,512	491	2,500	2,288	211	5,092
बकुला	Broad bean	10,598	16	111	104	7	6,938
भटमासकोसा	Soya bean	9,093	27	174	174	0	6,444
अन्य कोसे तरकारी	Other Leguminosae	3,249	6	46	46	0	7,667

Table 5.3.1: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, Mountains<<<

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
रायोको साग	Broad leaf mustard	285,376	1,053	12,847	12,036	812	12,200
चम्सुरको साग	Ground cress	63,583	151	845	711	134	5,596
पालुङ्गेको साग	Spinach	39,123	91	570	455	115	6,264
तोरीको साग	Mustard leaf	54,541	229	1,611	1,604	7	7,035
फापरको साग	Buckwheat leaf	3,872	9	48	48	0	5,333
मेथीको साग	Fenugreek leaf	58,508	142	551	527	25	3,880
हरियो लसुन	Garlic Green	98,056	228	1,185	1,170	14	5,197
हरियो प्याज	Onion Green	100,314	414	2,462	2,178	284	5,947
फर्सीको मुन्टा	Pumpkin shoot	133,839	567	5,083	4,720	363	8,965
कर्कलो / गाभा	Colocasia leaf	40,807	65	427	424	3	6,569
अन्य साग	Other Leafy Vegetable	71,691	150	497	455	42	3,313
मूला	Radish	251,292	1,058	8,953	7,728	1,225	8,462
सलगम / गान्टेमूला	Turnip	1,405	1	18	18	0	18,000
गाजर	Carrot	7,945	22	85	74	11	3,864
प्याज	Onion	114,504	409	3,075	2,408	668	7,518
लसुन	Garlic	140,417	394	2,547	2,248	299	6,464
अन्य जरे तरकारी	Other Root Vegetable	11,273	19	59	59	0	3,105
तरुल	Yam	75,417	70	2,063	1,942	122	29,471
पिँडालु	Colocasia/Arum	163,355	1,252	9,591	7,967	1,623	7,661
ओल	Elephant foot yam						
सखरखण्ड	Sweet potato	56,380	277	2,143	2,143	1	7,736
अन्य कन्दमूल	Other Tuber Vegetable	7,320	36	122	101	21	3,389
कुरिलो	Asparagus						
अन्य तरकारी	Other Vegetable	6,872	15	115	115	0	7,667
<b>Mountains</b>		<b>303,304</b>	<b>11,564</b>	<b>121,565</b>	<b>102,738</b>	<b>18,828</b>	<b>10,512</b>

Table 5.3.2: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, Hills>>>

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
काउली / फूलगोभी	Cauliflower	522,577	12,474	141,866	19,603	122,264	11,373
बन्दागोभी / पातगोभी	Cabbage	357,075	8,621	130,370	14,529	115,840	15,122
ब्रोकाउली	Broccoli	22,365	198	1,998	407	1,591	10,091
ग्याँठगोभी	Knolkhol	4,297	53	291	223	69	5,491
गोलभेंडा / टमाटर	Tomato	524,311	15,084	224,385	14,099	210,286	14,876
भन्टा / बैगन	Brinjal/Eggplant	249,064	1,073	11,590	3,448	8,141	10,801
करेलो	Bitter gourd	523,523	1,163	12,437	7,557	4,880	10,694
भिँडी / रामतोरियाँ	Lady's finger/Okra	205,572	1,301	12,176	3,976	8,200	9,359
पीरो खुर्सानी	Hot pepper/Chilli	632,300	2,653	18,211	6,076	12,135	6,864
अकबरे खुर्सानी	Scotch bonnet chilli	50,360	584	1,838	488	1,351	3,147
भिँडे / माछा खुर्सानी	Sweet pepper	29,399	459	3,093	457	2,635	6,739
काँक्रो	Cucumber	802,301	5,041	81,226	28,200	53,026	16,113
फर्सी	Pumpkin	803,947	3,595	64,538	48,211	16,328	17,952
जुफिनी फर्सी	Squash	21,038	269	1,676	372	1,304	6,230
लौका	Bottle gourd	296,496	740	16,783	8,304	8,479	22,680
घिरौँलो / तिरही	Sponge/Ridge gourd	764,896	1,348	26,427	19,806	6,621	19,605
चिचिन्डो	Snake gourd	279,053	305	5,368	4,134	1,234	17,600
बरेलो	Balsam apple	158,160	410	7,596	5,422	2,174	18,527
इस्कूस	Chayote/Christophine	507,356	2,522	102,001	65,229	36,772	40,444
परवर	Pointed gourd	1,857	8	70	61	9	8,750
कुभिन्डो	Ash gourd	93,205	124	3,484	2,675	809	28,097
तरबुजो	Watermelon	2,138	19	354	273	81	18,632
अन्य फल तरकारी	Other Cucurbitaceae	27,651	103	806	623	182	7,825
मटरकोसा	Pea	120,789	1,401	5,872	3,397	2,475	4,191
सिमी	Bean	945,012	6,760	50,423	24,249	26,173	7,459
बोडी	Asparagus bean	700,915	5,663	30,176	15,955	14,221	5,329
बकुला	Broad bean	130,896	378	1,997	1,698	299	5,283
भटमासकोसा	Soya bean	43,391	300	1,495	929	567	4,983
अन्य कोसे तरकारी	Other Leguminosae	60,956	219	1,472	1,261	212	6,721

Table 5.3.2: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, Hills<<<

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
रायोको साग	Broad leaf mustard	1,182,583	5,762	70,509	50,984	19,525	12,237
चम्सुरको साग	Ground cress	101,549	273	1,899	1,228	671	6,956
पालुङ्गेको साग	Spinach	94,773	250	1,811	1,264	546	7,244
तोरीको साग	Mustard leaf	191,960	824	6,729	5,227	1,503	8,166
फापरको साग	Buckwheat leaf	13,849	139	348	210	138	2,504
मेथीको साग	Fenugreek leaf	33,410	61	287	237	50	4,705
हरियो लसुन	Garlic Green	147,860	555	2,575	1,335	1,240	4,640
हरियो प्याज	Onion Green	131,394	522	3,388	1,267	2,121	6,490
फर्सीको मुन्टा	Pumpkin shoot	497,222	2,715	21,516	17,016	4,500	7,925
कर्कलो / गाभा	Colocasia leaf	143,537	376	1,951	1,757	195	5,189
अन्य साग	Other Leafy Vegetable	166,426	478	1,753	1,097	657	3,667
मूला	Radish	1,044,666	7,015	94,809	40,482	54,327	13,515
सलगम / गान्टेमूला	Turnip	18,872	89	574	488	86	6,449
गाजर	Carrot	31,790	71	700	346	354	9,859
प्याज	Onion	574,148	2,975	24,800	16,524	8,275	8,336
लसुन	Garlic	715,294	3,156	16,363	10,736	5,627	5,185
अन्य जरे तरकारी	Other Root Vegetable	22,324	389	1,890	569	1,322	4,859
तरुल	Yam	225,247	244	7,310	5,088	2,222	29,959
पिँडालु	Colocasia/Arum	443,888	3,638	29,472	26,858	2,614	8,101
ओल	Elephant foot yam	1,175	1	12	12	0	12,000
सखरखण्ड	Sweet potato	100,382	837	8,118	7,127	991	9,699
अन्य कन्दमूल	Other Tuber Vegetable	54,699	210	3,765	2,471	1,294	17,929
कुरिलो	Asparagus	6,558	82	250	40	211	3,049
अन्य तरकारी	Other Vegetable	3,743	25	195	115	80	7,800
<b>Hills</b>		<b>1,310,087</b>	<b>103,555</b>	<b>1,261,041</b>	<b>494,138</b>	<b>766,903</b>	<b>12,177</b>

Table 5.3.3: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, Tarai>>>

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
काउली / फूलगोभी	Cauliflower	692,840	20,249	259,073	43,775	215,298	12,794
बन्दागोभी / पातगोभी	Cabbage	385,308	5,410	168,716	16,862	151,854	31,186
ब्रोकाउली	Broccoli	51,432	409	4,286	1,405	2,881	10,479
ग्याँठगोभी	Knolkhol	14,840	47	426	347	78	9,064
गोलभेंडा / टमाटर	Tomato	536,328	4,354	90,460	17,952	72,509	20,776
भन्टा / बैगन	Brinjal/Eggplant	466,329	6,844	87,000	25,551	61,449	12,712
करेलो	Bitter gourd	459,738	2,955	32,513	9,901	22,612	11,003
भिँडी / रामतोरियाँ	Lady's finger/Okra	575,254	6,097	45,893	18,739	27,154	7,527
पीरो खुर्सानी	Hot pepper/Chilli	517,663	3,756	15,543	7,963	7,579	4,138
अकबरे खुर्सानी	Scotch bonnet chilli	24,208	205	951	259	692	4,639
भिँडे / माछा खुर्सानी	Sweet pepper	10,954	71	404	194	210	5,690
काँक्रो	Cucumber	381,272	3,201	54,333	14,475	39,858	16,974
फर्सी	Pumpkin	759,980	5,679	88,104	53,349	34,755	15,514
जुफिनी फर्सी	Squash	13,711	521	18,183	443	17,741	34,900
लौका	Bottle gourd	637,868	6,152	105,291	38,662	66,629	17,115
घिरौलो / तिरही	Sponge/Ridge gourd	492,390	2,383	31,900	19,977	11,923	13,386
चिचिन्डो	Snake gourd	131,004	287	4,016	2,083	1,933	13,993
बरेलो	Balsam apple	18,164	29	510	429	81	17,586
इस्कस	Chayote/Christophine	89,112	664	30,403	25,655	4,748	45,788
परवर	Pointed gourd	16,383	1,606	9,700	1,275	8,426	6,040
कुभिन्डो	Ash gourd	71,423	160	4,356	3,332	1,024	27,225
तरबुजो	Watermelon	5,068	657	11,207	559	10,648	17,058
अन्य फल तरकारी	Other Cucurbitaceae	114,183	2,472	17,216	4,864	12,352	6,964
मटरकोसा	Pea	148,952	2,467	8,049	3,827	4,222	3,263
सिमी	Bean	540,849	3,311	27,809	13,391	14,418	8,399
बोडी	Asparagus bean	531,520	5,824	69,524	13,597	55,928	11,938
बकुला	Broad bean	142,455	731	2,100	1,883	217	2,873
भटमासकोसा	Soya bean	43,188	148	509	498	11	3,439
अन्य कोसे तरकारी	Other Leguminosae	48,214	221	1,350	1,050	300	6,109



Table 5.3.3: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, Tarai<<<

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
रायोको साग	Broad leaf mustard	799,108	3,135	33,638	28,142	5,497	10,730
चम्सुरको साग	Ground cress	97,434	220	920	582	338	4,182
पालुङ्को साग	Spinach	129,816	355	2,073	1,395	678	5,839
तोरीको साग	Mustard leaf	156,321	1,020	4,390	3,753	637	4,304
फापरको साग	Buckwheat leaf	17,278	53	119	73	46	2,245
मेथीको साग	Fenugreek leaf	53,276	133	559	418	141	4,203
हरियो लसुन	Garlic Green	181,143	784	2,062	1,309	753	2,630
हरियो प्याज	Onion Green	118,597	770	5,412	2,981	2,431	7,029
फर्सीको मुन्टा	Pumpkin shoot	318,995	1,369	10,048	8,438	1,610	7,340
कर्कलो / गाभा	Colocasia leaf	136,570	312	1,683	1,657	26	5,394
अन्य साग	Other Leafy Vegetable	271,199	1,548	10,939	3,090	7,849	7,067
मूला	Radish	754,397	4,957	60,314	35,256	25,059	12,167
सलगम / गान्टेमूला	Turnip	6,702	20	150	105	45	7,500
गाजर	Carrot	77,411	545	8,798	1,046	7,752	16,143
प्याज	Onion	584,462	7,554	59,284	38,794	20,489	7,848
लसुन	Garlic	715,103	4,254	15,921	11,704	4,218	3,743
अन्य जरे तरकारी	Other Root Vegetable	15,403	105	957	859	98	9,114
तरुल	Yam	147,022	266	5,823	4,496	1,327	21,891
पिँडालु	Colocasia/Arum	246,151	2,056	17,881	15,269	2,613	8,697
ओल	Elephant foot yam	21,773	291	2,532	890	1,641	8,701
सखरखण्ड	Sweet potato	19,060	430	3,816	734	3,082	8,874
अन्य कन्दमूल	Other Tuber Vegetable	8,107	30	460	446	14	15,333
कुरिलो	Asparagus	1,739	29	56	15	41	1,931
अन्य तरकारी	Other Vegetable	2,117	33	259	87	172	7,848
<b>Tarai</b>		<b>1,630,130</b>	<b>117,176</b>	<b>1,437,921</b>	<b>503,834</b>	<b>934,087</b>	<b>12,271</b>

Table 5.4.1: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, Eastern>>>

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
काउली / फूलगोभी	Cauliflower	255,204	12,873	135,969	18,169	117,800	10,562
बन्दागोभी / पातगोभी	Cabbage	98,910	5,209	77,936	6,612	71,325	14,962
ब्रोकाउली	Broccoli	8,765	219	1,093	331	762	4,991
ग्याँठगोभी	Knolkhol						
गोलभेंडा / टमाटर	Tomato	294,601	9,060	124,985	11,322	113,663	13,795
भन्टा / बैगन	Brinjal/Eggplant	197,972	3,294	41,368	11,927	29,441	12,559
करेलो	Bitter gourd	135,148	605	7,493	2,860	4,633	12,385
भिँडी / रामतोरियाँ	Lady's finger/Okra	129,813	2,334	14,312	5,039	9,272	6,132
पीरो खुर्सानी	Hot pepper/Chilli	181,943	874	4,877	1,784	3,093	5,580
अकबरे खुर्सानी	Scotch bonnet chilli	94,179	670	2,210	845	1,365	3,299
भिँडे / माछा खुर्सानी	Sweet pepper	13,748	242	725	284	441	2,996
काँक्रो	Cucumber	245,260	1,280	19,260	10,408	8,853	15,047
फर्सी	Pumpkin	487,186	3,634	76,182	54,303	21,878	20,964
जुफिनी फर्सी	Squash	4,849	44	282	126	156	6,409
लौका	Bottle gourd	247,534	1,982	37,159	20,470	16,689	18,748
घिरौलो / तिरही	Sponge/Ridge gourd	209,636	985	11,591	7,256	4,335	11,768
चिचिन्डो	Snake gourd	7,401	7	137	74	63	19,571
बरेलो	Balsam apple	67,241	218	4,396	3,523	873	20,165
इस्कूस	Chayote/Christophine	434,309	2,929	120,136	82,791	37,344	41,016
परवर	Pointed gourd	9,966	918	3,902	768	3,133	4,251
कुभिन्डो	Ash gourd	32,806	90	2,464	1,870	594	27,378
तरबुजो	Watermelon	2,137	21	375	315	60	17,857
अन्य फल तरकारी	Other Cucurbitaceae	88,798	1,719	9,141	3,103	6,039	5,318
मटरकोसा	Pea	58,655	1,190	4,635	2,653	1,982	3,895
सिमी	Bean	306,540	2,304	14,209	9,721	4,488	6,167
बोडी	Asparagus bean	207,112	2,058	9,406	5,841	3,565	4,570
बकुला	Broad bean	29,555	259	538	423	115	2,077
भटमासकोसा	Soya bean	5,149	79	77	70	8	975
अन्य कोसे तरकारी	Other Leguminosae	15,793	108	330	300	31	3,056

Table 5.4.1: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, Eastern<<<

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
रायोको साग	Broad leaf mustard	504,385	3,368	36,163	27,072	9,090	10,737
चम्सुरको साग	Ground cress	24,646	125	227	133	94	1,816
पालुङ्गेको साग	Spinach	16,943	87	408	289	118	4,690
तोरीको साग	Mustard leaf	96,860	812	3,793	3,550	242	4,671
फापरको साग	Buckwheat leaf	4,137	19	15	15	0	789
मेथीको साग	Fenugreek leaf	6,443	41	140	133	8	3,415
हरियो लसुन	Garlic Green	97,805	575	1,309	802	507	2,277
हरियो प्याज	Onion Green	60,854	413	1,756	969	787	4,252
फर्सीको मुन्टा	Pumpkin shoot	286,487	1,538	12,911	10,934	1,976	8,395
कर्कलो / गाभा	Colocasia leaf	2,551	6	47	29	17	7,833
अन्य साग	Other Leafy Vegetable	220,727	1,396	5,763	2,984	2,778	4,128
मूला	Radish	389,194	5,035	67,033	21,119	45,914	13,313
सलगम / गान्टेमूला	Turnip	574	0	5	1	3	
गाजर	Carrot	7,139	31	91	53	38	2,935
प्याज	Onion	207,235	1,505	9,005	6,536	2,469	5,983
लसुन	Garlic	258,537	2,142	6,228	4,339	1,889	2,908
अन्य जरे तरकारी	Other Root Vegetable	29,247	386	1,631	1,265	365	4,225
तरुल	Yam	108,253	138	4,400	3,163	1,237	31,884
पिँडालु	Colocasia/Arum	93,278	804	6,036	4,596	1,440	7,507
ओल	Elephant foot yam	3,599	164	927	298	630	5,652
सखरखण्ड	Sweet potato	48,833	616	6,882	6,334	548	11,172
अन्य कन्दमूल	Other Tuber Vegetable	68,480	273	4,299	2,971	1,328	15,747
कुरिलो	Asparagus	827	28	54	12	41	1,929
अन्य तरकारी	Other Vegetable	12,533	72	567	315	252	7,875
<b>Eastern</b>		<b>838,583</b>	<b>74,778</b>	<b>894,877</b>	<b>361,102</b>	<b>533,775</b>	<b>11,967</b>

Table 5.4.2: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, Central>>>

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
काउली / फूलगोभी	Cauliflower	368,764	13,765	208,447	25,223	183,224	15,143
बन्दागोभी / पातगोभी	Cabbage	153,942	5,064	169,971	6,626	163,345	33,565
ब्रोकाउली	Broccoli	30,040	184	2,222	637	1,585	12,076
ग्याँठगोभी	Knolkhol	4,537	55	297	230	67	5,400
गोलभेंडा / टमाटर	Tomato	289,258	7,078	130,897	8,265	122,631	18,494
भन्टा / बैगन	Brinjal/Eggplant	221,204	3,470	44,734	10,859	33,876	12,892
करेलो	Bitter gourd	328,973	1,744	21,478	5,309	16,170	12,315
भिँडी / रामतोरियाँ	Lady's finger/Okra	305,651	3,542	31,226	9,525	21,700	8,816
पीरो खुर्सानी	Hot pepper/Chilli	470,749	2,457	10,541	4,511	6,030	4,290
अकबरे खुर्सानी	Scotch bonnet chilli	18,716	197	868	187	682	4,406
भिँडे / माछा खुर्सानी	Sweet pepper	14,012	183	1,854	194	1,660	10,131
काँक्रो	Cucumber	323,766	3,709	53,415	10,977	42,438	14,401
फर्सी	Pumpkin	460,352	3,523	45,795	25,881	19,915	12,999
जुफिनी फर्सी	Squash	15,430	194	1,571	363	1,208	8,098
लौका	Bottle gourd	253,544	3,040	49,965	11,920	38,045	16,436
घिरौलो / तिरही	Sponge/Ridge gourd	489,088	1,664	27,569	18,339	9,231	16,568
चिचिन्डो	Snake gourd	158,691	354	4,960	2,527	2,433	14,011
बरेलो	Balsam apple	24,776	124	1,793	576	1,217	14,460
इस्कस	Chayote/Christophine	239,394	499	22,196	18,238	3,958	44,481
परवर	Pointed gourd	5,913	666	5,635	522	5,113	8,461
कुभिन्डो	Ash gourd	43,037	63	1,726	1,185	541	27,397
तरबुजो	Watermelon	1,026	2	31	9	22	15,500
अन्य फल तरकारी	Other Cucurbitaceae	10,204	425	4,648	1,187	3,462	10,936
मटरकोसा	Pea	99,234	1,683	4,916	1,683	3,232	2,921
सिमी	Bean	465,353	4,616	39,360	14,085	25,275	8,527
बोडी	Asparagus bean	496,613	6,392	70,094	12,881	57,213	10,966
बकुला	Broad bean	158,704	586	2,389	2,073	317	4,077
भटमासकोसा	Soya bean	76,015	329	1,404	1,270	134	4,267
अन्य कोसे तरकारी	Other Leguminosae	57,267	206	1,658	1,235	423	8,049

Table 5.4.2: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, Central<<<<

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
रायोको साग	Broad leaf mustard	663,962	3,498	57,185	43,152	14,033	16,348
चम्सुरको साग	Ground cress	121,094	292	2,090	1,366	724	7,158
पालुङ्गेको साग	Spinach	103,343	228	1,742	1,172	570	7,640
तोरीको साग	Mustard leaf	152,355	655	4,339	2,757	1,582	6,624
फापरको साग	Buckwheat leaf	23,082	68	320	250	70	4,706
मेथीको साग	Fenugreek leaf	29,882	51	315	192	124	6,176
हरियो लसुन	Garlic Green	255,362	744	2,566	1,817	750	3,449
हरियो प्याज	Onion Green	207,006	782	5,417	2,892	2,525	6,927
फर्सीको मुन्टा	Pumpkin shoot	465,960	2,449	19,646	15,910	3,736	8,022
कर्कलो / गाभा	Colocasia leaf	204,352	413	2,198	2,016	182	5,322
अन्य साग	Other Leafy Vegetable	78,896	250	1,071	747	325	4,284
मूला	Radish	561,890	3,730	50,034	29,016	21,018	13,414
सलगम / गान्टेमूला	Turnip	15,444	78	413	347	66	5,295
गाजर	Carrot	63,495	491	8,562	824	7,738	17,438
प्याज	Onion	375,802	3,989	32,809	20,683	12,126	8,225
लसुन	Garlic	439,564	2,321	12,674	8,167	4,507	5,461
अन्य जरे तरकारी	Other Root Vegetable	18,196	89	1,189	213	976	13,360
तरुल	Yam	185,698	305	7,058	5,060	1,998	23,141
पिँडालु	Colocasia/Arum	258,217	2,168	16,159	14,318	1,841	7,453
ओल	Elephant foot yam	1,623	41	615	75	539	15,000
सखरखण्ड	Sweet potato	79,478	452	2,824	2,441	383	6,248
अन्य कन्दमूल	Other Tuber Vegetable						
कुरिलो	Asparagus	5,713	80	233	22	211	2,913
अन्य तरकारी	Other Vegetable						
<b>Central</b>		<b>1,039,047</b>	<b>88,987</b>	<b>1,191,119</b>	<b>349,950</b>	<b>841,169</b>	<b>13,385</b>

Table 5.4.3: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, Western>>>

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
काउली / फूलगोभी	Cauliflower	319,563	4,491	41,130	11,284	29,847	9,158
बन्दागोभी / पातगोभी	Cabbage	231,624	2,564	35,617	9,212	26,405	13,891
ब्रोकाउली	Broccoli	29,511	254	2,834	767	2,067	11,157
ग्याँठगोभी	Knolkhol	2,804	6	63	52	11	10,500
गोलभेंडा / टमाटर	Tomato	256,831	2,172	37,519	6,488	31,031	17,274
भन्टा / बैगन	Brinjal/Eggplant	112,394	641	7,795	2,056	5,739	12,161
करेलो	Bitter gourd	297,895	928	8,634	4,765	3,868	9,304
भिँडी / रामतोरियाँ	Lady's finger/Okra	95,821	689	5,320	2,627	2,692	7,721
पीरो खुर्सानी	Hot pepper/Chilli	245,860	1,852	11,621	3,731	7,891	6,275
अकबरे खुर्सानी	Scotch bonnet chilli	1,223	5	15	15	0	3,000
भिँडे / माछा खुर्सानी	Sweet pepper	2,518	27	151	31	120	5,593
काँक्रो	Cucumber	371,846	2,578	51,342	11,861	39,481	19,915
फर्सी	Pumpkin	335,893	1,418	17,386	11,869	5,517	12,261
जुफिनी फर्सी	Squash	14,813	599	18,222	397	17,825	30,421
लौका	Bottle gourd	198,350	960	19,356	7,348	12,008	20,163
घिरौलो / तिरही	Sponge/Ridge gourd	534,645	1,047	18,675	13,954	4,721	17,837
चिचिन्डो	Snake gourd	61,370	65	922	641	282	14,185
बरेलो	Balsam apple	6,849	12	248	248	0	20,667
इस्कस	Chayote/Christophine	69,846	96	4,461	3,385	1,076	46,469
परवर	Pointed gourd	804	28	224	39	185	8,000
कुभिन्डो	Ash gourd	43,822	69	1,892	1,611	281	27,420
तरबुजो	Watermelon	4,042	654	11,155	507	10,648	17,057
अन्य फल तरकारी	Other Cucurbitaceae	24,776	386	3,867	880	2,986	10,018
मटरकोसा	Pea	72,143	685	2,871	2,003	868	4,191
सिमी	Bean	527,488	2,531	19,676	10,425	9,252	7,774
बोडी	Asparagus bean	344,119	2,333	14,723	7,368	7,355	6,311
बकुला	Broad bean	68,445	215	834	782	52	3,879
भटमासकोसा	Soya bean	5,425	29	107	60	47	3,690
अन्य कोसे तरकारी	Other Leguminosae	37,829	130	873	815	58	6,715

Table 5.4.3: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, Western<<<

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
रायोको साग	Broad leaf mustard	517,154	1,766	10,887	9,485	1,402	6,165
चम्सुरको साग	Ground cress	34,291	69	475	221	254	6,884
पालुङ्गेको साग	Spinach	44,023	157	992	552	440	6,318
तोरीको साग	Mustard leaf	55,750	224	746	533	213	3,330
फापरको साग	Buckwheat leaf	1,033	105	107	4	103	1,019
मेथीको साग	Fenugreek leaf	21,293	31	154	96	58	4,968
हरियो लसुन	Garlic Green	23,188	94	947	249	698	10,074
हरियो प्याज	Onion Green	26,223	155	1,722	562	1,161	11,110
फर्सीको मुन्टा	Pumpkin shoot	176,855	620	3,717	3,011	706	5,995
कर्कलो / गाभा	Colocasia leaf	88,361	229	1,328	1,304	23	5,799
अन्य साग	Other Leafy Vegetable	84,227	336	5,729	419	5,310	17,051
मूला	Radish	507,713	2,346	23,926	14,454	9,472	10,199
सलगम / गान्टेमूला	Turnip	2,277	4	43	43	0	10,750
गाजर	Carrot	28,027	83	637	341	296	7,675
प्याज	Onion	307,701	2,622	21,710	15,207	6,504	8,280
लसुन	Garlic	377,878	1,277	4,010	3,407	603	3,140
अन्य जरे तरकारी	Other Root Vegetable						
तरुल	Yam	85,587	75	2,096	1,835	261	27,947
पिँडालु	Colocasia/Arum	181,989	1,502	12,849	11,885	964	8,555
ओल	Elephant foot yam	16,985	86	981	513	468	11,407
सखरखण्ड	Sweet potato	14,883	423	3,617	530	3,087	8,551
अन्य कन्दमूल	Other Tuber Vegetable						
कुरिलो	Asparagus	883	1	4	4	0	4,000
अन्य तरकारी	Other Vegetable						
<b>Western</b>		<b>672,220</b>	<b>39,668</b>	<b>434,210</b>	<b>179,875</b>	<b>254,335</b>	<b>10,946</b>

Table 5.4.4: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, MidWest>>>

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
काउली / फूलगोभी	Cauliflower	205,728	1,333	13,100	6,564	6,535	9,827
बन्दागोभी / पातगोभी	Cabbage	191,617	940	12,702	6,594	6,108	13,513
ब्रोकाउली	Broccoli	5,903	18	156	90	66	8,667
ग्याँठगोभी	Knolkhol	11,182	37	344	279	66	9,297
गोलभेंडा / टमाटर	Tomato	191,029	782	13,864	4,568	9,296	17,729
भन्टा / बैगन	Brinjal/Eggplant	167,644	402	4,429	3,539	890	11,017
करेलो	Bitter gourd	246,642	736	7,029	4,650	2,378	9,550
भिँडी / रामतोरियाँ	Lady's finger/Okra	212,740	646	6,613	4,568	2,045	10,237
पीरो खुर्सानी	Hot pepper/Chilli	246,382	1,199	6,830	3,903	2,927	5,696
अकबरे खुर्सानी	Scotch bonnet chilli	475	1	7	7	0	7,000
भिँडे / माछा खुर्सानी	Sweet pepper	5,553	40	597	65	533	14,925
काँक्रो	Cucumber	253,739	703	13,274	11,045	2,229	18,882
फर्सी	Pumpkin	304,182	823	18,957	15,561	3,396	23,034
जुफिनी फर्सी	Squash	1,483	3	74	24	50	24,667
लौका	Bottle gourd	190,231	655	11,894	5,417	6,477	18,159
घिरौलो / तिरही	Sponge/Ridge gourd	53,692	49	967	830	137	19,735
चिचिन्डो	Snake gourd	136,508	129	2,641	2,322	320	20,473
बरेलो	Balsam apple	66,527	72	1,422	1,265	157	19,750
इस्कूस	Chayote/Christophine	28,715	41	1,729	1,462	268	42,171
परवर	Pointed gourd	1,975	2	14	12	2	7,000
कुभिन्डो	Ash gourd	50,677	67	1,905	1,618	287	28,433
तरबुजो	Watermelon						
अन्य फल तरकारी	Other Cucurbitaceae	4,071	11	90	74	16	8,182
मटरकोसा	Pea	43,000	320	1,607	939	668	5,022
सिमी	Bean	265,882	951	7,294	5,609	1,685	7,670
बोडी	Asparagus bean	215,192	902	6,215	4,479	1,736	6,890
बकुला	Broad bean	13,229	34	194	163	31	5,706
भटमासकोसा	Soya bean	8,425	35	570	181	389	16,286
अन्य कोसे तरकारी	Other Leguminosae	545	1	1	1	0	1,000



Table 5.4.4: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, MidWest<<<

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
रायोको साग	Broad leaf mustard	331,921	639	7,338	6,739	599	11,484
चम्सुरको साग	Ground cress	17,143	18	128	123	6	7,111
पालुङ्गेको साग	Spinach	15,465	33	229	192	37	6,939
तोरीको साग	Mustard leaf	85,891	334	3,547	3,502	45	10,620
फापरको साग	Buckwheat leaf	6,748	9	72	62	10	8,000
मेथीको साग	Fenugreek leaf	18,122	54	171	166	5	3,167
हरियो लसुन	Garlic Green	9,615	30	100	85	15	3,333
हरियो प्याज	Onion Green	6,034	15	74	61	13	4,933
फर्सीको मुन्टा	Pumpkin shoot	18,097	41	358	305	54	8,732
कर्कलो / गाभा	Colocasia leaf	25,042	104	483	482	1	4,644
अन्य साग	Other Leafy Vegetable	57,141	72	287	276	10	3,986
मूला	Radish	313,977	942	12,722	11,152	1,570	13,505
सलगम / गान्टेमूला	Turnip	3,257	14	126	79	47	9,000
गाजर	Carrot	12,440	21	165	135	30	7,857
प्याज	Onion	231,626	2,038	16,744	10,742	6,002	8,216
लसुन	Garlic	310,747	1,461	8,703	6,097	2,606	5,957
अन्य जरे तरकारी	Other Root Vegetable	1,345	36	81	7	74	2,250
तरुल	Yam	59,882	55	1,442	1,277	165	26,218
पिँडालु	Colocasia/Arum	183,283	1,180	11,665	10,857	808	9,886
ओल	Elephant foot yam	741	2	21	17	4	10,500
सखरखण्ड	Sweet potato	31,476	53	716	660	56	13,509
अन्य कन्दमूल	Other Tuber Vegetable	1,055	2	42	41	1	21,000
कुरिलो	Asparagus	874	1	16	16	0	16,000
अन्य तरकारी	Other Vegetable						
<b>MidWest</b>		<b>387,592</b>	<b>18,084</b>	<b>199,756</b>	<b>138,904</b>	<b>60,853</b>	<b>11,046</b>

Table 5.4.5: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, FarWest>>>

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
काउली/फूलगोभी	Cauliflower	133,782	709	5,935	4,067	1,868	8,371
बन्दागोभी/पातगोभी	Cabbage	96,588	528	5,839	3,728	2,111	11,059
ब्रोकाउली	Broccoli						
ग्याँठगोभी	Knolkhol	615	2	13	10	3	6,500
गोलभेंडा/टमाटर	Tomato	110,323	631	10,393	3,014	7,378	16,471
भन्टा/वैगन	Brinjal/Eggplant	96,694	365	2,453	1,772	681	6,721
करेलो	Bitter gourd	76,293	237	1,718	1,087	631	7,249
भिँडी/रामतोरियाँ	Lady's finger/Okra	65,212	262	1,650	1,325	325	6,298
पीरो खुर्सानी	Hot pepper/Chilli	164,229	624	2,611	2,211	400	4,184
अकबरे खुर्सानी	Scotch bonnet chilli	160	1	3	3	0	3,000
भिँडे/माछा खुर्सानी	Sweet pepper	4,523	38	169	77	92	4,447
काँक्रो	Cucumber	189,737	363	5,778	3,827	1,951	15,917
फर्सी	Pumpkin	240,661	359	8,104	6,664	1,440	22,574
जुफिनी फर्सी	Squash	927	4	76	12	65	19,000
लौका	Bottle gourd	100,537	333	5,288	2,939	2,349	15,880
घिरौलो/तिरही	Sponge/Ridge gourd	58,829	86	1,542	1,217	326	17,930
चिचिन्डो	Snake gourd	53,984	44	852	748	104	19,364
बरेलो	Balsam apple	19,273	17	325	303	22	19,118
इस्कूस	Chayote/Christophine	1,051	1	42	17	25	42,000
परवर	Pointed gourd	244	0	2	1	1	
कुभिन्डो	Ash gourd	19,742	27	695	529	166	25,741
तरबुजो	Watermelon						
अन्य फल तरकारी	Other Cucurbitaceae	38,437	90	691	619	72	7,678
मटरकोसा	Pea	6,654	32	141	134	8	4,406
सिमी	Bean	52,846	193	1,241	964	277	6,430
बोडी	Asparagus bean	62,911	293	1,762	1,270	492	6,014
बकुला	Broad bean	14,016	32	253	244	9	7,906
भटमासकोसा	Soya bean	660	2	20	20	0	10,000
अन्य कोसे तरकारी	Other Leguminosae	986	1	6	6	0	6,000

Table 5.4.5: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, FarWest<<<<

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
रायोको साग	Broad leaf mustard	249,646	679	5,422	4,714	709	7,985
चम्सुरको साग	Ground cress	65,392	140	744	678	66	5,314
पालुङ्गेको साग	Spinach	83,938	191	1,084	909	175	5,675
तोरीको साग	Mustard leaf	11,965	49	307	242	65	6,265
फापरको साग	Buckwheat leaf						
मेथीको साग	Fenugreek leaf	69,454	158	617	595	22	3,905
हरियो लसुन	Garlic Green	41,087	125	899	862	38	7,192
हरियो प्याज	Onion Green	50,187	339	2,292	1,943	349	6,761
फर्सीको मुन्टा	Pumpkin shoot	2,656	3	15	14	0	5,000
कर्कलो / गाभा	Colocasia leaf	608	1	5	5	0	5,000
अन्य साग	Other Leafy Vegetable	68,325	121	339	215	124	2,802
मूला	Radish	277,581	978	10,361	7,725	2,636	10,594
सलगम / गान्टेमूला	Turnip	5,427	13	156	141	15	12,000
गाजर	Carrot	6,045	13	127	114	14	9,769
प्याज	Onion	150,750	785	6,890	4,559	2,331	8,777
लसुन	Garlic	184,088	603	3,216	2,678	538	5,333
अन्य जरे तरकारी	Other Root Vegetable	213	1	6	2	4	6,000
तरुल	Yam	8,266	7	199	190	9	28,429
पिँडालु	Colocasia/Arum	136,627	1,293	10,234	8,438	1,797	7,915
ओल	Elephant foot yam						
सखरखण्ड	Sweet potato	1,153	3	39	39	0	13,000
अन्य कन्दमूल	Other Tuber Vegetable	590	0	6	6	0	
कुरिलो	Asparagus						
अन्य तरकारी	Other Vegetable	199	0	2	2	0	
<b>FarWest</b>		<b>306,078</b>	<b>10,778</b>	<b>100,566</b>	<b>70,880</b>	<b>29,686</b>	<b>9,331</b>

Table 5.5.1: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, Eastern Hills>>>

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
काउली / फूलगोभी	Cauliflower	64,339	4,984	53,024	3,196	49,828	10,639
बन्दागोभी / पातगोभी	Cabbage	53,710	4,295	65,870	3,433	62,437	15,336
ब्रोकाउली	Broccoli	1,424	2	25	20	6	12,500
ग्याँठगोभी	Knolkhol						
गोलभेंडा / टमाटर	Tomato	95,853	7,369	105,296	3,679	101,617	14,289
भन्टा / बैगन	Brinjal/Eggplant	17,776	44	420	317	103	9,545
करेलो	Bitter gourd	44,978	106	1,232	691	542	11,623
भिँडी / रामतोरियाँ	Lady's finger/Okra	6,645	32	208	177	31	6,500
पीरो खुर्सानी	Hot pepper/Chilli	55,461	260	1,685	503	1,182	6,481
अकबरे खुर्सानी	Scotch bonnet chilli	41,573	424	1,290	384	907	3,042
भिँडे / माछा खुर्सानी	Sweet pepper	11,697	226	584	188	395	2,584
काँक्रो	Cucumber	92,823	302	6,995	3,984	3,011	23,162
फर्सी	Pumpkin	146,673	979	24,621	17,494	7,127	25,149
जुफिनी फर्सी	Squash	458	2	24	13	11	12,000
लौका	Bottle gourd	28,974	55	1,310	873	438	23,818
घिरौलो / तिरही	Sponge/Ridge gourd	41,808	64	1,412	990	421	22,063
चिचिन्डो	Snake gourd	4,982	5	95	39	56	19,000
बरेलो	Balsam apple	55,401	203	4,104	3,270	835	20,217
इस्कूस	Chayote/Christophine	266,482	2,069	81,452	49,098	32,354	39,368
परवर	Pointed gourd						
कुभिन्डो	Ash gourd	2,952	7	172	131	41	24,571
तरबुजो	Watermelon	1,112	18	324	264	60	18,000
अन्य फल तरकारी	Other Cucurbitaceae	13,000	68	519	389	130	7,632
मटरकोसा	Pea	39,266	1,026	4,094	2,329	1,765	3,990
सिमी	Bean	96,267	1,173	4,946	3,506	1,441	4,217
बोडी	Asparagus bean	67,278	825	3,394	2,218	1,176	4,114
बकुला	Broad bean	4,420	21	107	55	52	5,095
भटमासकोसा	Soya bean	2,798	76	49	49	0	645
अन्य कोसे तरकारी	Other Leguminosae	5,478	36	123	105	18	3,417

Table 5.5.1: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, Eastern Hills<<<

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
रायोको साग	Broad leaf mustard	181,454	1,331	15,554	10,884	4,670	11,686
चम्सुरको साग	Ground cress	5,086	19	58	23	35	3,053
पालुङ्गेको साग	Spinach	187	3	1	1	0	333
तोरीको साग	Mustard leaf	17,824	79	289	240	49	3,658
फापरको साग	Buckwheat leaf	1,540	4	9	9	0	2,250
मेथीको साग	Fenugreek leaf	1,694	10	16	10	6	1,600
हरियो लसुन	Garlic Green	18,308	96	157	125	32	1,635
हरियो प्याज	Onion Green	16,334	46	144	122	22	3,130
फर्सीको मुन्टा	Pumpkin shoot	109,597	750	6,136	4,683	1,454	8,181
कर्कलो / गाभा	Colocasia leaf						
अन्य साग	Other Leafy Vegetable	33,760	119	439	364	75	3,689
मूला	Radish	133,714	2,606	43,277	7,861	35,416	16,607
सलगम / गान्टेमूला	Turnip	574	0	5	1	3	
गाजर	Carrot	2,569	8	19	16	4	2,375
प्याज	Onion	69,600	370	1,903	1,340	564	5,143
लसुन	Garlic	72,165	343	1,570	1,030	541	4,577
अन्य जरे तरकारी	Other Root Vegetable	11,519	277	639	371	268	2,307
तरुल	Yam	37,575	69	2,420	1,356	1,064	35,072
पिँडालु	Colocasia/Arum	34,245	266	2,860	1,953	907	10,752
ओल	Elephant foot yam						
सखरखण्ड	Sweet potato	18,690	459	5,561	5,013	548	12,115
अन्य कन्दमूल	Other Tuber Vegetable	53,644	208	3,723	2,430	1,293	17,899
कुरिलो	Asparagus						
अन्य तरकारी	Other Vegetable	3,544	25	193	113	80	7,720
<b>Eastern Hills</b>		<b>220,865</b>	<b>31,761</b>	<b>448,348</b>	<b>135,338</b>	<b>313,010</b>	<b>14,116</b>

Table 5.5.2: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, Eastern Tarai>>>

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
काउली / फूलगोभी	Cauliflower	177,866	7,699	81,286	14,579	66,706	10,558
बन्दागोभी / पातगोभी	Cabbage	40,285	752	10,157	2,593	7,564	13,507
ब्रोकाउली	Broccoli	6,919	149	1,047	298	748	7,027
र्याँठगोभी	Knolkhol						
गोलभेंडा / टमाटर	Tomato	171,928	1,550	17,934	6,973	10,961	11,570
भन्टा / बैगन	Brinjal/Eggplant	154,870	3,167	39,663	11,269	28,394	12,524
करेलो	Bitter gourd	45,745	433	5,603	1,627	3,976	12,940
भिँडी / रामतोरियाँ	Lady's finger/Okra	116,309	2,265	13,339	4,747	8,592	5,889
पीरो खुर्सानी	Hot pepper/Chilli	81,525	512	2,570	969	1,601	5,020
अकबरे खुर्सानी	Scotch bonnet chilli	18,554	170	636	182	455	3,741
भिँडे / माछा खुर्सानी	Sweet pepper	2,050	16	142	95	46	8,875
काँक्रो	Cucumber	92,802	774	8,710	4,134	4,576	11,253
फर्सी	Pumpkin	258,117	2,434	44,547	30,096	14,452	18,302
जुफिनी फर्सी	Squash	2,701	8	147	62	84	18,375
लौका	Bottle gourd	185,887	1,875	34,765	18,839	15,925	18,541
घिरौलो / तिरही	Sponge/Ridge gourd	122,240	870	9,154	5,288	3,866	10,522
चिचिन्डो	Snake gourd	1,656	1	31	24	7	31,000
बरेलो	Balsam apple	10,187	13	269	231	38	20,692
इस्कस	Chayote/Christophine	72,584	640	29,743	25,135	4,608	46,473
परवर	Pointed gourd	9,304	917	3,895	762	3,133	4,248
कुभिन्डो	Ash gourd	18,235	69	1,915	1,364	551	27,754
तरबुजो	Watermelon	1,026	3	51	51	0	17,000
अन्य फल तरकारी	Other Cucurbitaceae	70,698	1,641	8,566	2,657	5,909	5,220
मटरकोसा	Pea	13,197	135	366	209	156	2,711
सिमी	Bean	150,817	866	7,404	4,624	2,780	8,550
बोडी	Asparagus bean	91,219	905	4,540	2,332	2,208	5,017
बकुला	Broad bean	24,588	237	430	366	63	1,814
भटमासकोसा	Soya bean	2,350	4	28	20	8	7,000
अन्य कोसे तरकारी	Other Leguminosae	9,768	70	186	173	13	2,657

Table 5.5.2: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, Eastern Tarai<<<

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
रायोको साग	Broad leaf mustard	248,151	1,682	17,135	12,987	4,148	10,187
चम्सुरको साग	Ground cress	19,137	95	157	106	51	1,653
पालुङ्गेको साग	Spinach	16,334	80	400	284	116	5,000
तोरीको साग	Mustard leaf	47,867	592	2,617	2,423	193	4,421
फापरको साग	Buckwheat leaf	1,931	13	3	3	0	231
मेथीको साग	Fenugreek leaf	4,749	31	124	122	1	4,000
हरियो लसुन	Garlic Green	75,095	462	1,109	634	475	2,400
हरियो प्याज	Onion Green	40,219	348	1,568	803	766	4,506
फर्सीको मुन्टा	Pumpkin shoot	111,449	355	3,126	2,763	363	8,806
कर्कलो / गाभा	Colocasia leaf	2,551	6	47	29	17	7,833
अन्य साग	Other Leafy Vegetable	177,456	1,243	5,203	2,533	2,670	4,186
मूला	Radish	196,523	2,181	22,008	11,764	10,243	10,091
सलगम / गान्टेमूला	Turnip						
गाजर	Carrot	2,755	7	47	23	24	6,714
प्याज	Onion	103,852	1,000	6,262	4,521	1,741	6,262
लसुन	Garlic	154,492	1,717	4,169	2,820	1,348	2,428
अन्य जरे तरकारी	Other Root Vegetable	15,403	105	957	859	98	9,114
तरुल	Yam	25,060	21	606	502	104	28,857
पिँडालु	Colocasia/Arum	30,297	452	2,492	1,961	531	5,513
ओल	Elephant foot yam	3,599	164	927	298	630	5,652
सखरखण्ड	Sweet potato	1,234	2	26	26	0	13,000
अन्य कन्दमूल	Other Tuber Vegetable	8,107	30	460	446	14	15,333
कुरिलो	Asparagus	827	28	54	12	41	1,929
अन्य तरकारी	Other Vegetable	2,117	33	259	87	172	7,848
<b>Eastern Tarai</b>		<b>517,786</b>	<b>38,823</b>	<b>396,877</b>	<b>185,706</b>	<b>211,172</b>	<b>10,223</b>

Table 5.5.3: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, Central Hills>>>

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
काउली / फूलगोभी	Cauliflower	155,950	3,831	57,329	7,433	49,896	14,965
बन्दागोभी / पातगोभी	Cabbage	80,432	2,043	33,950	3,434	30,515	16,618
ब्रोकाउली	Broccoli	2,403	40	837	69	768	20,925
ग्याँठगोभी	Knolkhol	3,624	52	286	219	67	5,500
गोलभेंडा / टमाटर	Tomato	141,931	6,040	87,967	5,395	82,572	14,564
भन्टा / बैगन	Brinjal/Eggplant	71,206	555	5,764	1,266	4,499	10,386
करेलो	Bitter gourd	137,644	529	5,577	2,195	3,382	10,543
भिँडी / रामतोरियाँ	Lady's finger/Okra	123,422	1,166	11,148	3,095	8,053	9,561
पीरो खुर्सानी	Hot pepper/Chilli	242,357	968	6,952	2,353	4,599	7,182
अकबरे खुर्सानी	Scotch bonnet chilli	8,152	159	538	94	444	3,384
भिँडे / माछा खुर्सानी	Sweet pepper	10,709	181	1,831	178	1,653	10,116
काँक्रो	Cucumber	189,394	2,936	39,118	6,855	32,263	13,324
फर्सी	Pumpkin	220,827	1,186	15,830	11,079	4,750	13,347
जुफिनी फर्सी	Squash	9,999	155	1,051	229	822	6,781
लौका	Bottle gourd	112,275	430	10,148	3,194	6,953	23,600
घिरौलो / तिरही	Sponge/Ridge gourd	280,444	744	14,178	9,963	4,215	19,056
चिचिन्डो	Snake gourd	98,789	154	2,268	1,477	792	14,727
बरेलो	Balsam apple	18,088	121	1,737	533	1,204	14,355
इस्कस	Chayote/Christophine	148,058	323	14,600	11,483	3,117	45,201
परवर	Pointed gourd	1,613	7	67	60	8	9,571
कुभिन्डो	Ash gourd	20,624	38	1,034	546	488	27,211
तरबुजो	Watermelon	1,026	2	31	9	22	15,500
अन्य फल तरकारी	Other Cucurbitaceae	1,574	3	39	16	24	13,000
मटरकोसा	Pea	20,075	137	455	347	109	3,321
सिमी	Bean	286,124	3,039	28,533	10,337	18,196	9,389
बोडी	Asparagus bean	283,548	3,298	19,823	7,708	12,115	6,011
बकुला	Broad bean	70,968	241	1,378	1,135	243	5,718
भटमासकोसा	Soya bean	27,299	161	789	658	130	4,901
अन्य कोसे तरकारी	Other Leguminosae	33,834	124	961	812	149	7,750



Table 5.5.3: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, Central Hills<<<

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
रायोको साग	Broad leaf mustard	387,452	2,599	41,943	28,570	13,373	16,138
चम्सुरको साग	Ground cress	61,796	202	1,553	1,007	547	7,688
पालुङ्गेको साग	Spinach	50,816	167	1,420	916	504	8,503
तोरीको साग	Mustard leaf	59,423	331	2,935	1,491	1,443	8,867
फापरको साग	Buckwheat leaf	5,329	23	166	139	27	7,217
मेथीको साग	Fenugreek leaf	7,510	16	120	86	34	7,500
हरियो लसुन	Garlic Green	105,233	369	1,508	1,013	495	4,087
हरियो प्याज	Onion Green	92,160	416	2,884	903	1,981	6,933
फर्सीको मुन्टा	Pumpkin shoot	244,046	1,568	13,014	10,349	2,665	8,300
कर्कलो / गाभा	Colocasia leaf	76,125	209	1,034	855	179	4,947
अन्य साग	Other Leafy Vegetable	51,420	189	745	439	306	3,942
मूला	Radish	309,676	2,155	27,604	16,624	10,979	12,809
सलगम / गान्टेमूला	Turnip	13,285	76	396	331	66	5,211
गाजर	Carrot	12,607	42	503	180	323	11,976
प्याज	Onion	161,320	1,210	9,588	5,338	4,249	7,924
लसुन	Garlic	225,337	1,458	9,095	5,369	3,726	6,238
अन्य जरे तरकारी	Other Root Vegetable	9,247	75	1,164	188	976	15,520
तरुल	Yam	60,166	77	2,150	1,320	830	27,922
पिँडालु	Colocasia/Arum	122,205	1,436	9,361	8,721	640	6,519
ओल	Elephant foot yam						
सखरखण्ड	Sweet potato	40,244	299	1,639	1,308	331	5,482
अन्य कन्दमूल	Other Tuber Vegetable						
कुरिलो	Asparagus	4,801	80	230	19	211	2,875
अन्य तरकारी	Other Vegetable						
<b>Central Hills</b>		<b>397,466</b>	<b>41,661</b>	<b>493,274</b>	<b>177,336</b>	<b>315,938</b>	<b>11,840</b>

Table 5.5.4: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, Central Tarai>>>

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
काउली / फूलगोभी	Cauliflower	200,828	9,881	150,688	17,501	133,187	15,250
बन्दागोभी / पातगोभी	Cabbage	68,247	3,014	135,964	3,133	132,830	45,111
ब्रोकाउली	Broccoli	27,637	144	1,385	568	817	9,618
ग्याँठगोभी	Knolkhol	912	3	11	11	0	3,667
गोलभेंडा / टमाटर	Tomato	112,196	1,011	42,547	2,522	40,025	42,084
भन्टा / बैगन	Brinjal/Eggplant	122,905	2,893	38,644	9,289	29,355	13,358
करेलो	Bitter gourd	148,116	1,172	15,413	2,661	12,752	13,151
भिँडी / रामतोरियाँ	Lady's finger/Okra	164,453	2,354	19,880	6,238	13,642	8,445
पीरो खुर्सानी	Hot pepper/Chilli	176,957	1,308	2,787	1,530	1,256	2,131
अकबरे खुर्सानी	Scotch bonnet chilli	4,431	31	300	62	238	9,677
भिँडे / माछा खुर्सानी	Sweet pepper	3,303	3	23	16	7	7,667
काँक्रो	Cucumber	82,818	691	12,629	2,760	9,869	18,276
फर्सी	Pumpkin	163,943	2,183	26,015	11,145	14,870	11,917
जुफिनी फर्सी	Squash	4,367	19	264	77	187	13,895
लौका	Bottle gourd	138,361	2,608	39,769	8,690	31,079	15,249
घिरौलो / तिरही	Sponge/Ridge gourd	179,773	887	12,720	7,768	4,951	14,340
चिचिन्डो	Snake gourd	58,421	200	2,685	1,044	1,641	13,425
बरेलो	Balsam apple						
इस्कस	Chayote/Christophine	10,783	16	417	322	95	26,063
परवर	Pointed gourd	4,300	659	5,568	462	5,105	8,449
कुभिन्डो	Ash gourd	10,440	9	261	228	33	29,000
तरबुजो	Watermelon						
अन्य फल तरकारी	Other Cucurbitaceae	8,630	422	4,609	1,171	3,438	10,922
मटरकोसा	Pea	75,587	1,534	4,392	1,269	3,123	2,863
सिमी	Bean	120,144	1,394	9,416	2,394	7,022	6,755
बोडी	Asparagus bean	174,472	2,958	49,337	4,270	45,067	16,679
बकुला	Broad bean	77,684	330	901	835	66	2,730
भटमासकोसा	Soya bean	39,622	141	441	438	3	3,128
अन्य कोसे तरकारी	Other Leguminosae	20,730	78	672	399	274	8,615

Table 5.5.4: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, Central Tarai<<<

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
रायोको साग	Broad leaf mustard	184,589	634	8,913	8,456	458	14,058
चम्सुरको साग	Ground cress	49,223	72	357	254	103	4,958
पालुङ्गेको साग	Spinach	45,340	53	184	171	13	3,472
तोरीको साग	Mustard leaf	69,740	236	687	555	132	2,911
फापरको साग	Buckwheat leaf	14,547	39	110	67	43	2,821
मेथीको साग	Fenugreek leaf	19,731	31	156	80	76	5,032
हरियो लसुन	Garlic Green	84,476	251	518	271	247	2,064
हरियो प्याज	Onion Green	60,786	264	2,017	1,492	524	7,640
फर्सीको मुन्टा	Pumpkin shoot	154,917	749	5,198	4,331	868	6,940
कर्कलो / गाभा	Colocasia leaf	87,420	139	737	737	0	5,302
अन्य साग	Other Leafy Vegetable	6,668	22	61	42	19	2,773
मूला	Radish	186,438	1,284	19,399	9,576	9,823	15,108
सलगम / गान्टेमूला	Turnip	934	1	7	7	0	7,000
गाजर	Carrot	46,338	445	8,028	614	7,415	18,040
प्याज	Onion	161,391	2,620	21,979	14,195	7,784	8,389
लसुन	Garlic	151,922	693	2,373	1,708	665	3,424
अन्य जरे तरकारी	Other Root Vegetable						
तरुल	Yam	95,915	205	4,220	3,105	1,116	20,585
पिँडालु	Colocasia/Arum	92,006	603	5,062	3,870	1,192	8,395
ओल	Elephant foot yam	1,623	41	615	75	539	15,000
सखरखण्ड	Sweet potato	11,762	30	337	286	51	11,233
अन्य कन्दमूल	Other Tuber Vegetable						
कुरिलो	Asparagus	912	1	3	3	0	3,000
अन्य तरकारी	Other Vegetable						
<b>Central Tarai</b>		<b>557,339</b>	<b>44,355</b>	<b>658,700</b>	<b>136,700</b>	<b>522,000</b>	<b>14,851</b>

Table 5.5.5: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, Western Hills>>>

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
काउली / फूलगोभी	Cauliflower	216,421	3,153	25,746	6,660	19,086	8,166
बन्दागोभी / पातगोभी	Cabbage	161,065	1,904	24,134	5,541	18,593	12,675
ब्रोकाउली	Broccoli	17,944	148	1,052	301	751	7,108
ग्याँठगोभी	Knolkhol						
गोलभेंडा / टमाटर	Tomato	144,697	1,109	18,733	2,234	16,499	16,892
भन्टा / बैगन	Brinjal/Eggplant	54,041	302	3,684	395	3,289	12,199
करेलो	Bitter gourd	211,064	320	3,314	2,707	607	10,356
भिँडी / रामतोरियाँ	Lady's finger/Okra	15,178	20	123	100	23	6,150
पीरो खुर्सानी	Hot pepper/Chilli	140,602	988	6,837	923	5,913	6,920
अकबरे खुर्सानी	Scotch bonnet chilli						
भिँडे / माछा खुर्सानी	Sweet pepper						
काँक्रो	Cucumber	315,217	1,362	25,397	8,873	16,524	18,647
फर्सी	Pumpkin	209,217	837	9,225	6,530	2,695	11,022
जुफिनी फर्सी	Squash	9,579	110	538	117	421	4,891
लौका	Bottle gourd	92,806	161	3,282	2,572	711	20,385
घिरौँलो / तिरही	Sponge/Ridge gourd	411,276	508	10,208	8,282	1,926	20,094
चिचिन्डो	Snake gourd	55,702	36	724	524	199	20,111
बरेलो	Balsam apple	6,426	12	238	238	0	19,833
इस्कूस	Chayote/Christophine	69,846	96	4,461	3,385	1,076	46,469
परवर	Pointed gourd						
कुभिन्डो	Ash gourd	19,146	14	399	379	19	28,500
तरबुजो	Watermelon						
अन्य फल तरकारी	Other Cucurbitaceae	4,740	19	153	144	9	8,053
मटरकोसा	Pea	34,959	109	455	281	174	4,174
सिमी	Bean	404,415	1,961	12,708	6,922	5,786	6,480
बोडी	Asparagus bean	243,757	1,107	4,772	3,987	785	4,311
बकुला	Broad bean	47,628	103	443	443	0	4,301
भटमासकोसा	Soya bean	4,959	28	88	41	47	3,143
अन्य कोसे तरकारी	Other Leguminosae	21,212	59	386	342	44	6,542

Table 5.5.5: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, Western Hills<<<

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
रायोको साग	Broad leaf mustard	420,131	1,498	8,498	7,334	1,164	5,673
चम्सुरको साग	Ground cress	17,587	34	169	85	84	4,971
पालुङ्गेको साग	Spinach	9,951	21	68	41	27	3,238
तोरीको साग	Mustard leaf	38,274	141	323	323	0	2,291
फापरको साग	Buckwheat leaf	1,033	105	107	4	103	1,019
मेथीको साग	Fenugreek leaf	10,171	14	33	28	5	2,357
हरियो लसुन	Garlic Green	19,396	83	843	145	698	10,157
हरियो प्याज	Onion Green	17,345	46	282	178	104	6,130
फर्सीको मुन्टा	Pumpkin shoot	133,739	384	2,225	1,847	378	5,794
कर्कलो / गाभा	Colocasia leaf	63,945	160	798	782	15	4,988
अन्य साग	Other Leafy Vegetable	52,716	144	437	166	271	3,035
मूला	Radish	393,153	1,716	16,323	9,275	7,048	9,512
सलगम / गान्टेमूला	Turnip						
गाजर	Carrot	10,375	13	121	98	23	9,308
प्याज	Onion	173,157	706	6,118	5,112	1,006	8,666
लसुन	Garlic	222,254	771	2,157	1,734	423	2,798
अन्य जरे तरकारी	Other Root Vegetable						
तरुल	Yam	69,155	47	1,351	1,185	166	28,745
पिँडालु	Colocasia/Arum	151,279	1,270	9,821	9,199	622	7,733
ओल	Elephant foot yam	837	1	3	3	0	3,000
सखरखण्ड	Sweet potato	10,902	35	241	177	64	6,886
अन्य कन्दमूल	Other Tuber Vegetable						
कुरिलो	Asparagus	883	1	4	4	0	4,000
अन्य तरकारी	Other Vegetable						
<b>Western Hills</b>		<b>445,644</b>	<b>21,654</b>	<b>207,025</b>	<b>99,642</b>	<b>107,383</b>	<b>9,561</b>

Table 5.5.6: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, Western Tarai>>>

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
काउली / फूलगोभी	Cauliflower	103,141	1,337	15,384	4,624	10,760	11,506
बन्दागोभी / पातगोभी	Cabbage	70,558	660	11,483	3,671	7,812	17,398
ब्रोकाउली	Broccoli	11,566	105	1,782	466	1,316	16,971
ग्याँठगोभी	Knolkhol	2,804	6	63	52	11	10,500
गोलभेंडा / टमाटर	Tomato	112,134	1,063	18,786	4,254	14,532	17,673
भन्टा / बैगन	Brinjal/Eggplant	58,352	339	4,111	1,661	2,450	12,127
करेलो	Bitter gourd	86,831	608	5,320	2,058	3,261	8,750
भिँडी / रामतोरियाँ	Lady's finger/Okra	80,643	669	5,196	2,527	2,669	7,767
पीरो खुर्सानी	Hot pepper/Chilli	105,259	864	4,785	2,807	1,977	5,538
अकबरे खुर्सानी	Scotch bonnet chilli	1,223	5	15	15	0	3,000
भिँडे / माछा खुर्सानी	Sweet pepper	2,518	27	151	31	120	5,593
काँक्रो	Cucumber	56,629	1,215	25,944	2,988	22,957	21,353
फर्सी	Pumpkin	126,676	582	8,161	5,339	2,822	14,022
जुफिनी फर्सी	Squash	5,234	489	17,684	280	17,404	36,164
लौका	Bottle gourd	105,544	799	16,073	4,777	11,297	20,116
घिरौँलो / तिरही	Sponge/Ridge gourd	123,369	539	8,467	5,672	2,796	15,709
चिचिन्डो	Snake gourd	5,668	29	199	116	82	6,862
बरेलो	Balsam apple	423	1	11	11	0	11,000
इस्कूस	Chayote/Christophine						
परवर	Pointed gourd	804	28	224	39	185	8,000
कुभिन्डो	Ash gourd	24,676	54	1,493	1,232	262	27,648
तरबुजो	Watermelon	4,042	654	11,155	507	10,648	17,057
अन्य फल तरकारी	Other Cucurbitaceae	20,036	367	3,713	736	2,978	10,117
मटरकोसा	Pea	37,183	576	2,416	1,722	694	4,194
सिमी	Bean	123,072	569	6,968	3,502	3,466	12,246
बोडी	Asparagus bean	100,362	1,226	9,951	3,381	6,570	8,117
बकुला	Broad bean	20,817	111	391	339	52	3,523
भटमासकोसा	Soya bean	465	2	19	19	0	9,500
अन्य कोसे तरकारी	Other Leguminosae	16,617	72	487	474	14	6,764

Table 5.5.6: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, Western Tarai<<<<

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
रायोको साग	Broad leaf mustard	97,023	268	2,389	2,151	238	8,914
चम्सुरको साग	Ground cress	16,704	35	306	136	170	8,743
पालुङ्गेको साग	Spinach	34,072	135	924	511	413	6,844
तोरीको साग	Mustard leaf	17,476	83	422	210	213	5,084
फापरको साग	Buckwheat leaf						
मेथीको साग	Fenugreek leaf	11,123	17	120	68	52	7,059
हरियो लसुन	Garlic Green	3,792	12	104	104	0	8,667
हरियो प्याज	Onion Green	8,878	110	1,441	384	1,057	13,100
फर्सीको मुन्टा	Pumpkin shoot	43,116	236	1,492	1,164	328	6,322
कर्कलो / गाभा	Colocasia leaf	24,416	69	530	522	8	7,681
अन्य साग	Other Leafy Vegetable	31,511	192	5,292	253	5,039	27,563
मूला	Radish	114,561	631	7,603	5,178	2,425	12,049
सलगम / गान्टेमूला	Turnip	2,277	4	43	43	0	10,750
गाजर	Carrot	17,652	71	516	243	273	7,268
प्याज	Onion	134,544	1,916	15,592	10,095	5,497	8,138
लसुन	Garlic	155,624	507	1,853	1,673	180	3,655
अन्य जरे तरकारी	Other Root Vegetable						
तरुल	Yam	16,432	28	745	650	95	26,607
पिँडालु	Colocasia/Arum	30,710	232	3,027	2,686	342	13,047
ओल	Elephant foot yam	16,148	85	978	509	468	11,506
सखरखण्ड	Sweet potato	3,980	388	3,375	353	3,023	8,698
अन्य कन्दमूल	Other Tuber Vegetable						
कुरिलो	Asparagus						
अन्य तरकारी	Other Vegetable						
<b>Western Tarai</b>		<b>226,577</b>	<b>18,013</b>	<b>227,185</b>	<b>80,232</b>	<b>146,952</b>	<b>12,612</b>

Table 5.5.7: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, MidWest Hills>>>

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
काउली / फूलगोभी	Cauliflower	55,813	350	4,640	1,641	2,999	13,257
बन्दागोभी / पातगोभी	Cabbage	46,613	266	5,242	1,556	3,685	19,707
ब्रोकाउली	Broccoli	593	7	83	18	66	11,857
ग्याँठगोभी	Knolkhol	672	1	5	4	1	5,000
गोलभेंडा / टमाटर	Tomato	104,097	300	7,288	1,817	5,471	24,293
भन्टा / बैगन	Brinjal/Eggplant	74,062	102	1,097	979	118	10,755
करेलो	Bitter gourd	110,351	188	2,127	1,805	322	11,314
भिँडी / रामतोरियाँ	Lady's finger/Okra	47,382	53	540	474	66	10,189
पीरो खुर्सानी	Hot pepper/Chilli	140,569	306	2,183	1,770	413	7,134
अकबरे खुर्सानी	Scotch bonnet chilli	475	1	7	7	0	7,000
भिँडे / माछा खुर्सानी	Sweet pepper	5,553	40	597	65	533	14,925
काँक्रो	Cucumber	150,222	387	8,561	7,475	1,086	22,121
फर्सी	Pumpkin	153,591	477	11,868	10,351	1,518	24,881
जुफिनी फर्सी	Squash	1,002	3	62	12	50	20,667
लौका	Bottle gourd	45,178	73	1,589	1,262	327	21,767
घिरौलो / तिरही	Sponge/Ridge gourd	18,640	18	347	297	50	19,278
चिचिन्डो	Snake gourd	99,939	96	1,974	1,806	168	20,563
बरेलो	Balsam apple	59,768	60	1,214	1,096	118	20,233
इस्कस	Chayote/Christophine	22,970	34	1,487	1,264	224	43,735
परवर	Pointed gourd						
कुभिन्डो	Ash gourd	44,193	60	1,730	1,474	256	28,833
तरबुजो	Watermelon						
अन्य फल तरकारी	Other Cucurbitaceae	840	2	20	5	15	10,000
मटरकोसा	Pea	25,349	126	848	426	422	6,730
सिमी	Bean	150,208	568	3,990	3,397	593	7,025
बोडी	Asparagus bean	105,558	432	2,182	2,037	145	5,051
बकुला	Broad bean	7,880	13	69	65	4	5,308
भटमासकोसा	Soya bean	8,335	35	569	180	389	16,257
अन्य कोसे तरकारी	Other Leguminosae						



Table 5.5.7: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, MidWest Hills<<<

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
रायोको साग	Broad leaf mustard	151,250	249	4,037	3,767	270	16,213
चम्सुरको साग	Ground cress	15,819	16	113	107	6	7,063
पालुङ्गेको साग	Spinach	6,344	7	88	78	10	12,571
तोरीको साग	Mustard leaf	75,460	268	3,164	3,154	10	11,806
फापरको साग	Buckwheat leaf	5,948	8	66	59	7	8,250
मेथीको साग	Fenugreek leaf	11,626	16	106	101	5	6,625
हरियो लसुन	Garlic Green	4,660	8	66	51	15	8,250
हरियो प्याज	Onion Green	4,981	13	66	53	13	5,077
फर्सीको मुन्टा	Pumpkin shoot	8,861	12	129	126	3	10,750
कर्कलो / गाभा	Colocasia leaf	3,223	7	119	119	0	17,000
अन्य साग	Other Leafy Vegetable	26,587	24	125	123	3	5,208
मूला	Radish	139,804	343	5,563	4,965	599	16,219
सलगम / गान्टेमूला	Turnip	2,166	3	68	63	6	22,667
गाजर	Carrot	5,448	8	51	47	4	6,375
प्याज	Onion	99,149	399	4,631	2,758	1,873	11,607
लसुन	Garlic	135,234	430	2,810	2,088	722	6,535
अन्य जरे तरकारी	Other Root Vegetable	1,345	36	81	7	74	2,250
तरुल	Yam	58,352	50	1,389	1,227	162	27,780
पिँडालु	Colocasia/Arum	126,906	643	7,260	6,822	438	11,291
ओल	Elephant foot yam	338	1	9	9	0	9,000
सखरखण्ड	Sweet potato	30,349	44	675	628	47	15,341
अन्य कन्दमूल	Other Tuber Vegetable	1,055	2	42	41	1	21,000
कुरिलो	Asparagus	874	1	16	16	0	16,000
अन्य तरकारी	Other Vegetable						
<b>MidWest Hills</b>		<b>163,686</b>	<b>6,584</b>	<b>90,992</b>	<b>67,689</b>	<b>23,303</b>	<b>13,820</b>

Table 5.5.8: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, MidWest Tarai>>>

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
काउली / फूलगोभी	Cauliflower	149,915	983	8,460	4,924	3,536	8,606
बन्दागोभी / पातगोभी	Cabbage	145,004	674	7,461	5,038	2,423	11,070
ब्रोकाउली	Broccoli	5,310	10	73	73	0	7,300
ग्याँठगोभी	Knolkhol	10,509	36	339	275	64	9,417
गोलभेंडा / टमाटर	Tomato	86,932	482	6,577	2,752	3,825	13,645
भन्टा / बैगन	Brinjal/Eggplant	93,583	300	3,333	2,560	773	11,110
करेलो	Bitter gourd	136,290	548	4,901	2,845	2,056	8,943
भिँडी / रामतोरियाँ	Lady's finger/Okra	165,358	593	6,073	4,094	1,979	10,241
पीरो खुर्सानी	Hot pepper/Chilli	105,813	893	4,647	2,133	2,514	5,204
अकबरे खुर्सानी	Scotch bonnet chilli						
भिँडे / माछा खुर्सानी	Sweet pepper						
काँक्रो	Cucumber	103,517	317	4,714	3,570	1,144	14,871
फर्सी	Pumpkin	150,591	346	7,089	5,210	1,879	20,488
जुफिनी फर्सी	Squash	481	1	12	12	0	12,000
लौका	Bottle gourd	145,053	582	10,305	4,155	6,150	17,706
घिरौलो / तिरही	Sponge/Ridge gourd	35,052	32	620	533	87	19,375
चिचिन्डो	Snake gourd	36,569	33	667	516	151	20,212
बरेलो	Balsam apple	6,759	13	209	169	40	16,077
इस्कस	Chayote/Christophine	5,746	8	242	198	44	30,250
परवर	Pointed gourd	1,975	2	14	12	2	7,000
कुभिन्डो	Ash gourd	6,484	6	175	144	31	29,167
तरबुजो	Watermelon						
अन्य फल तरकारी	Other Cucurbitaceae	3,230	8	71	69	2	8,875
मटरकोसा	Pea	17,651	194	760	513	247	3,918
सिमी	Bean	115,674	382	3,304	2,212	1,092	8,649
बोडी	Asparagus bean	109,634	469	4,032	2,442	1,590	8,597
बकुला	Broad bean	5,349	21	125	98	27	5,952
भटमासकोसा	Soya bean	90	0	1	1	0	
अन्य कोसे तरकारी	Other Leguminosae	545	1	1	1	0	1,000

Table 5.5.8: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, MidWest Tarai<<<

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
रायोको साग	Broad leaf mustard	180,671	390	3,301	2,972	329	8,464
चम्सुरको साग	Ground cress	1,324	2	16	16	0	8,000
पालुङ्गेको साग	Spinach	9,122	26	141	114	27	5,423
तोरीको साग	Mustard leaf	10,431	66	383	349	35	5,803
फापरको साग	Buckwheat leaf	800	1	6	3	3	6,000
मेथीको साग	Fenugreek leaf	6,496	38	65	65	0	1,711
हरियो लसुन	Garlic Green	4,955	22	34	34	0	1,545
हरियो प्याज	Onion Green	1,053	3	8	8	0	2,667
फर्सीको मुन्टा	Pumpkin shoot	9,236	29	229	179	51	7,897
कर्कलो / गाभा	Colocasia leaf	21,818	97	364	363	1	3,753
अन्य साग	Other Leafy Vegetable	30,554	48	161	154	8	3,354
मूला	Radish	174,173	599	7,159	6,188	971	11,952
सलगम / गान्टेमूला	Turnip	1,091	11	57	16	41	5,182
गाजर	Carrot	6,993	13	114	88	27	8,769
प्याज	Onion	132,477	1,639	12,113	7,984	4,129	7,390
लसुन	Garlic	175,513	1,031	5,894	4,009	1,885	5,717
अन्य जरे तरकारी	Other Root Vegetable						
तरुल	Yam	1,530	5	54	50	4	10,800
पिँडालु	Colocasia/Arum	56,377	537	4,405	4,036	370	8,203
ओल	Elephant foot yam	403	1	12	8	4	12,000
सखरखण्ड	Sweet potato	1,127	8	41	32	9	5,125
अन्य कन्दमूल	Other Tuber Vegetable						
कुरिलो	Asparagus						
अन्य तरकारी	Other Vegetable						
<b>MidWest Tarai</b>		<b>223,906</b>	<b>11,500</b>	<b>108,764</b>	<b>71,215</b>	<b>37,550</b>	<b>9,458</b>

Table 5.5.9: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, FarWest Hills>>>

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
काउली/फूलगोभी	Cauliflower	155	1,127	673	454		597
बन्दागोभी/पातगोभी	Cabbage	15,255	113	1,174	564	609	10,389
ब्रोकाउली	Broccoli						
ग्याँठगोभी	Knolkhol						
गोलभेंडा/टमाटर	Tomato	37,733	265	5,101	974	4,127	19,249
भन्टा/बैगन	Brinjal/Eggplant	31,980	70	625	492	133	8,929
करेलो	Bitter gourd	19,486	19	186	159	27	9,789
भिँडी/रामतोरियाँ	Lady's finger/Okra	12,944	29	158	131	27	5,448
पीरो खुर्सानी	Hot pepper/Chilli	53,312	131	553	526	27	4,221
अकबरे खुर्सानी	Scotch bonnet chilli	160	1	3	3	0	3,000
भिँडे/माछा खुर्सानी	Sweet pepper	1,440	13	81	27	55	6,231
काँक्रो	Cucumber	54,644	54	1,154	1,013	142	21,370
फर्सी	Pumpkin	73,640	115	2,994	2,757	237	26,035
जुकिनी फर्सी	Squash						
लौका	Bottle gourd	17,262	21	453	403	50	21,571
घिरौलो/तिरही	Sponge/Ridge gourd	12,729	14	281	273	8	20,071
चिचिन्डो	Snake gourd	19,641	15	307	288	19	20,467
बरेलो	Balsam apple	18,478	15	303	285	18	20,200
इस्कूस	Chayote/Christophine						
परवर	Pointed gourd	244	0	2	1	1	
कुभिन्डो	Ash gourd	6,289	5	149	145	4	29,800
तरबुजो	Watermelon						
अन्य फल तरकारी	Other Cucurbitaceae	7,496	10	74	69	6	7,400
मटरकोसा	Pea	1,139	3	21	14	6	7,000
सिमी	Bean	7,997	18	245	88	157	13,611
बोडी	Asparagus bean	773	1	5	4	0	5,000
बकुला	Broad bean						
भटमासकोसा	Soya bean						
अन्य कोसे तरकारी	Other Leguminosae	433	0	2	2	0	

Table 5.5.9: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, FarWest Hills<<<

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
रायोको साग	Broad leaf mustard	42,296	84	477	430	47	5,679
चम्सुरको साग	Ground cress	1,260	2	6	6	0	3,000
पालुङ्गेको साग	Spinach	27,475	52	234	228	6	4,500
तोरीको साग	Mustard leaf	978	6	18	18	0	3,000
फापरको साग	Buckwheat leaf						
मेथीको साग	Fenugreek leaf	2,409	4	11	11	0	2,750
हरियो लसुन	Garlic Green	262	0	1	1	0	
हरियो प्याज	Onion Green	573	1	12	11	1	12,000
फर्सीको मुन्टा	Pumpkin shoot	980	1	11	11	0	11,000
कर्कलो / गाभा	Colocasia leaf	244	0	1	1	0	
अन्य साग	Other Leafy Vegetable	1,943	3	7	5	2	2,333
मूला	Radish	68,318	195	2,042	1,757	286	10,472
सलगम / गान्टेमूला	Turnip	2,847	10	104	93	11	10,400
गाजर	Carrot	791	1	6	6	0	6,000
प्याज	Onion	70,922	290	2,560	1,977	583	8,828
लसुन	Garlic	60,305	155	732	516	216	4,723
अन्य जरे तरकारी	Other Root Vegetable	213	1	6	2	4	6,000
तरुल	Yam						
पिँडालु	Colocasia/Arum	9,253	24	169	163	6	7,042
ओल	Elephant foot yam						
सखरखण्ड	Sweet potato	197	0	2	2	0	
अन्य कन्दमूल	Other Tuber Vegetable						
कुरिलो	Asparagus						
अन्य तरकारी	Other Vegetable	199	0	2	2	0	
<b>FarWest Hills</b>		<b>82,427</b>	<b>1,895</b>	<b>21,402</b>	<b>14,133</b>	<b>7,269</b>	<b>11,294</b>

Table 5.5.10: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, FarWest Tarai>>>

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
काउली/फूलगोभी	Cauliflower	61,090	348	3,255	2,147	1,108	9,353
बन्दागोभी/पातगोभी	Cabbage	61,214	310	3,651	2,427	1,225	11,777
ब्रोकाउली	Broccoli						
ग्याँठगोभी	Knolkhol	615	2	13	10	3	6,500
गोलभेंडा/टमाटर	Tomato	53,139	248	4,617	1,451	3,166	18,617
भन्टा/बैगन	Brinjal/Eggplant	36,618	144	1,250	772	477	8,681
करेलो	Bitter gourd	42,755	194	1,275	709	566	6,572
भिँडी/रामतोरियाँ	Lady's finger/Okra	48,492	216	1,405	1,133	272	6,505
पीरो खुर्सानी	Hot pepper/Chilli	48,110	178	755	525	230	4,242
अकबरे खुर्सानी	Scotch bonnet chilli						
भिँडे/माछा खुर्सानी	Sweet pepper	3,082	25	88	51	37	3,520
काँक्रो	Cucumber	45,506	203	2,336	1,023	1,312	11,507
फर्सी	Pumpkin	60,654	135	2,292	1,560	732	16,978
जुफिनी फर्सी	Squash	927	4	76	12	65	19,000
लौका	Bottle gourd	63,024	288	4,378	2,201	2,178	15,201
घिरौलो/तिरही	Sponge/Ridge gourd	31,957	56	939	715	224	16,768
चिचिन्डो	Snake gourd	28,690	24	434	383	51	18,083
बरेलो	Balsam apple	795	2	22	18	4	11,000
इस्कस	Chayote/Christophine						
परवर	Pointed gourd						
कुभिन्डो	Ash gourd	11,588	20	511	364	147	25,550
तरबुजो	Watermelon						
अन्य फल तरकारी	Other Cucurbitaceae	11,589	34	256	231	25	7,529
मटरकोसा	Pea	5,334	28	115	114	2	4,107
सिमी	Bean	31,142	99	716	658	58	7,232
बोडी	Asparagus bean	55,833	265	1,664	1,172	492	6,279
बकुला	Broad bean	14,016	32	253	244	9	7,906
भटमासकोसा	Soya bean	660	2	20	20	0	10,000
अन्य कोसे तरकारी	Other Leguminosae	553	1	4	4	0	4,000

Table 5.5.10: Total Number of Holdings, Area, Production, Consumption, Sales and Yield of Vegetable Crops, FarWest Tarai<<<

Name of Vegetable		Total No. of Holdings	Total Area (ha)	Total Production (mt)	Household Consumption (mt)	Sales (mt)	Yield (kg/ha)
Nepali	English						
रायोको साग	Broad leaf mustard	88,674	161	1,900	1,576	324	11,801
चम्सुरको साग	Ground cress	11,046	16	85	70	15	5,313
पालुङ्को साग	Spinach	24,950	60	425	315	109	7,083
तोरीको साग	Mustard leaf	10,807	43	281	216	65	6,535
फापरको साग	Buckwheat leaf						
मेथीको साग	Fenugreek leaf	11,177	16	94	82	12	5,875
हरियो लसुन	Garlic Green	12,824	38	296	266	30	7,789
हरियो प्याज	Onion Green	7,661	45	379	295	84	8,422
फर्सीको मुन्टा	Pumpkin shoot	275	0	2	2	0	
कर्कलो / गाभा	Colocasia leaf	364	1	4	4	0	4,000
अन्य साग	Other Leafy Vegetable	25,010	43	222	108	114	5,163
मूला	Radish	82,702	262	4,146	2,549	1,597	15,824
सलगम / गान्टेमूला	Turnip	2,400	3	42	39	4	14,000
गाजर	Carrot	3,673	10	92	78	14	9,200
प्याज	Onion	52,198	379	3,337	2,000	1,337	8,805
लसुन	Garlic	77,553	306	1,633	1,493	140	5,337
अन्य जरे तरकारी	Other Root Vegetable						
तरुल	Yam	8,086	7	199	190	9	28,429
पिँडालु	Colocasia/Arum	36,761	233	2,894	2,717	178	12,421
ओल	Elephant foot yam						
सखरखण्ड	Sweet potato	956	2	37	37	0	18,500
अन्य कन्दमूल	Other Tuber Vegetable						
कुरिलो	Asparagus						
अन्य तरकारी	Other Vegetable						
<b>FarWest Tarai</b>		<b>104,522</b>	<b>4,485</b>	<b>46,395</b>	<b>29,981</b>	<b>16,414</b>	<b>10,344</b>

## 5.2 Total Production, Mean Price, Total Input, Total Output and Value Added

Table 5.6 presents the total production (metric tons), mean price rupees per kilogram) total vegetable output (thousand rupees), total vegetable input (thousand rupees) and total vegetable value added (thousand rupees).

The price of the vegetables is producers' price that the vegetable growers obtain. This table also shows the total farm input needed to grow vegetable aggregating the cost of land preparation (ploughing, fencing), purchase/production of seeds/seedlings, tunnel/shade/staking support construction, irrigation (fuel/electricity/water), organic/local fertilizer, chemical fertilizer, pesticides, vitamins, purchase of ordinary agricultural tools, minor repair of equipment, packing, transportation, and others. This does not include the cost of hired labourers and land rent in order to derive the value added to the vegetable crops. The total output was derived from the value of the household consumption and the price obtained from selling the vegetable crops. In addition, the amount obtained from selling the seeds/seedlings, byproducts of vegetables and other current income. The value added for each vegetable crop was calculated by subtracting the total input from the total output. The total output was estimated at 45 billion rupees, the input was estimated at 9 billion rupees resulting the total value added from the vegetable crops in a year at 36 billion rupees.

The scotch bonnet chilli (*Akbare Khursani*) tops the unit mean price among the vegetable crops reported in the survey with Rs. 115.64 per kilogram. Others that follow the rank were asparagus (Rs. 78.45 per kg), garlic (Rs. 45.73 per kg) and hot pepper/chilli (Rs. 40.83 per kg). Ash gourd (Rs. 8.59 per kg), radish (Rs. 9.46 per kg), pumpkin (Rs. 10.26 per kg) and chayote/christophine (Rs. 10.41 per kg) were reported as sold in the cheaper price by the vegetable farmers.

The total output estimated was the highest of cauliflower which was 6.5 billion rupees, a 20 percent of the total vegetable output. The other vegetables with higher output were tomato (Rs. 5.7 billion), cabbage (Rs. 3.5 billion) and asparagus bean, cucumber and broad leaf mustard (Rs. 2 billion each). Lower contributors of the vegetable output were asparagus (Rs. 10 million), buckwheat leaf (Rs. 10.6 million), knolkhol (Rs. 13 million), other vegetable (Rs. 16 million) and turnip (Rs. 19 million).

Similar pattern of vegetable in input was observed from the survey where cauliflower had the highest value of input at 1.6 billion rupees, a 18 percent of the total vegetable input. Other vegetable crops that required a higher input were tomato (Rs. 1.3 billion) and cabbage (Rs. 770 million). Other vegetable (Rs. 0.5 million), other tuber (Rs. 2.5 million), turnip (Rs. 2.8 million), knolkhol (Rs. 3.3 million), buckwheat leaf and ash gourd (Rs. 3.6 million each) had nominal farm input observed.



In terms of value added, the cauliflower contributes Rs. 4.9 billion, 13.6 percent of the total contribution. The other vegetables with higher share of vegetable value addition were tomato (Rs. 4.4 billion) and cabbage (2.8 billion). Only one vegetable crop, asparagus had been estimated as negative value added of Rs. 8 million. Asparagus is a perennial crop. Hence, the input cost is more than its output in the initial years of its planting. This might have been appeared due to the non-prevalent nature of the crop. Other lowest contributors of vegetable output were buckwheat leaf (Rs. 7 million), knolkhol (Rs. 10 million), other vegetable (Rs. 15.8 million) and turnip (Rs. 16.3 million).

The information on vegetable production (metric tons), mean unit price (rupees per kilogram), total input, output and value added (thousand rupees each) by vegetable crop is presented in subsequent tables. Table 5.7.1-5.7.3 present these information for 3 ecological belts, Tables 5.8.1-5.8.5 represent for 5 development regions and Tables 5.9.1-5.9.10 represent 10 survey domains (excluding Mountains which is mentioned under belt).

Table 5.6: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, Nepal>>>

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
काउली/फूलगोभी	Cauliflower	404,580	17.94	6,507,629	1,616,256	4,891,373
बन्दागोभी/पातगोभी	Cabbage	302,067	12.85	3,516,958	769,527	2,747,431
ब्रोकाउली	Broccoli	6,305	24.14	169,443	36,294	133,149
ग्याँठगोभी	Knolkhol	717	14.68	13,214	3,326	9,888
गोलभेंडा/टमाटर	Tomato	317,657	18.95	5,678,329	1,307,364	4,370,965
भन्टा/बैगन	Brinjal/Eggplant	100,779	14.27	1,298,292	269,003	1,029,289
करेलो	Bitter gourd	46,352	21.00	995,950	218,756	777,194
भिँडी/रामतोरियाँ	Lady's finger/Okra	59,121	17.37	1,011,738	206,483	805,254
पीरो खुर्सानी	Hot pepper/Chilli	36,481	40.83	1,425,552	229,032	1,196,520
अकबरे खुर्सानी	Scotch bonnet chilli	3,103	115.64	357,717	34,065	323,652
भिँडे/माछा खुर्सानी	Sweet pepper	3,497	34.79	131,314	25,096	106,218
काँक्रो	Cucumber	143,070	14.42	2,095,000	318,446	1,776,554
फर्सी	Pumpkin	166,424	10.26	1,701,797	157,583	1,544,215
जुकिनी फर्सी	Squash	20,226	12.82	266,633	38,647	227,986
लौका	Bottle gourd	123,661	11.11	1,300,885	191,529	1,109,356
घिरौलो/तिरही	Sponge/Ridge gourd	60,346	13.55	858,175	93,702	764,473
चिचिन्डो	Snake gourd	9,513	14.57	169,660	21,778	147,882
बरेलो	Balsam apple	8,184	15.19	169,601	19,736	149,865
इस्कस	Chayote/Christophine	148,564	10.41	1,149,581	139,501	1,010,079
परवर	Pointed gourd	9,777	20.03	156,857	24,145	132,712
कुभिन्डो	Ash gourd	8,682	8.59	93,315	3,643	89,672
तरबुजो	Watermelon	11,561	10.44	94,266	23,030	71,236
अन्य फल तरकारी	Other Cucurbitaceae	18,438	22.28	254,381	56,248	198,133
मटरकोसा	Pea	14,170	26.33	399,388	112,955	286,434
सिमी	Bean	81,781	21.05	1,765,357	362,274	1,403,083
बोडी	Asparagus bean	102,201	21.15	2,124,848	348,471	1,776,377
बकुला	Broad bean	4,208	17.80	113,588	26,437	87,151
भटमासकोसा	Soya bean	2,178	24.23	67,647	9,643	58,004
अन्य कोसे तरकारी	Other Leguminosae	2,869	20.53	61,288	10,618	50,670

Table 5.6: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, Nepal<<<

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
रायोको साग	Broad leaf mustard	116,995	14.12	1,930,563	367,010	1,563,553
चम्सुरको साग	Ground cress	3,665	24.50	120,842	30,116	90,726
पालुङ्को साग	Spinach	4,454	21.47	123,669	27,419	96,250
तोरीको साग	Mustard leaf	12,731	15.30	229,974	44,513	185,461
फापरको साग	Buckwheat leaf	514	16.19	10,591	3,604	6,987
मेथीको साग	Fenugreek leaf	1,397	24.94	50,379	16,634	33,745
हरियो लसुन	Garlic Green	5,821	30.35	241,400	80,771	160,629
हरियो प्याज	Onion Green	11,262	21.79	270,476	83,928	186,548
फर्सीको मुन्टा	Pumpkin shoot	36,647	15.00	693,543	80,637	612,906
कर्कलो/गाभा	Colocasia leaf	4,061	12.52	71,697	21,363	50,334
अन्य साग	Other Leafy Vegetable	13,189	30.40	384,651	60,612	324,039
मूला	Radish	164,076	9.46	1,622,234	332,130	1,290,104
सलगम/गान्टेमूला	Turnip	741	16.27	19,065	2,772	16,293
गाजर	Carrot	9,582	20.84	146,611	39,045	107,566
प्याज	Onion	87,159	22.53	1,773,447	409,635	1,363,812
लसुन	Garlic	34,831	45.73	1,610,506	381,705	1,228,800
अन्य जरे तरकारी	Other Root Vegetable	2,907	32.69	93,845	11,866	81,979
तरुल	Yam	15,196	19.18	325,482	31,403	294,079
पिँडालु	Colocasia/Arum	56,944	16.82	992,226	301,436	690,790
ओल	Elephant foot yam	2,544	17.25	45,341	11,451	33,891
सखरखण्ड	Sweet potato	14,077	16.92	242,944	36,044	206,900
अन्य कन्दमूल	Other Tuber Vegetable	4,347	30.13	171,672	2,512	169,160
कुरिलो	Asparagus	307	78.45	9,894	17,855	-7,960
अन्य तरकारी	Other Vegetable	569	35.07	16,304	504	15,799
<b>Nepal</b>		<b>2,820,527</b>	<b>19.48</b>	<b>45,145,760</b>	<b>9,068,557</b>	<b>36,077,204</b>

Table 5.7.1: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, Mountains>>>>

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
काउली/फूलगोभी	Cauliflower	3,641	28.50	115,086	47,597	67,489
बन्दागोभी/पातगोभी	Cabbage	2,982	20.32	56,877	27,234	29,643
ब्रोकाउली	Broccoli	21	50.00	1,141	1,204	-63
ग्याँठगोभी	Knolkhol					
गोलभेंडा/टमाटर	Tomato	2,812	27.82	113,312	25,049	88,264
भन्टा/बैगन	Brinjal/Eggplant	2,189	18.89	44,910	10,722	34,188
करेलो	Bitter gourd	1,402	20.80	37,744	6,373	31,370
भिँडी/रामतोरियाँ	Lady's finger/Okra	1,052	29.59	29,437	3,396	26,041
पीरो खुर्सानी	Hot pepper/Chilli	2,727	59.80	156,497	31,434	125,063
अकबरे खुर्सानी	Scotch bonnet chilli	314	93.63	28,320	4,376	23,944
भिँडे/माछा खुर्सानी	Sweet pepper					
काँक्रो	Cucumber	7,511	17.48	138,571	26,349	112,221
फर्सी	Pumpkin	13,782	12.28	157,840	28,538	129,302
जुकिनी फर्सी	Squash	367	16.91	8,749	2,858	5,890
लौका	Bottle gourd	1,588	15.68	29,922	7,121	22,801
घिरौलो/तिरही	Sponge/Ridge gourd	2,019	16.25	35,416	6,674	28,741
चिचिन्डो	Snake gourd	129	16.03	3,226	709	2,516
बरेलो	Balsam apple	78	18.49	3,253	80	3,173
इस्कस	Chayote/Christophine	16,160	10.86	141,860	12,835	129,025
परवर	Pointed gourd	7	25.00	165	26	139
कुभिन्डो	Ash gourd	842	8.57	7,152	819	6,333
तरबुजो	Watermelon					
अन्य फल तरकारी	Other Cucurbitaceae	417	15.51	6,352	3,057	3,294
मटरकोसा	Pea	249	20.97	7,215	2,316	4,900
सिमी	Bean	3,549	21.24	81,139	16,504	64,635
बोडी	Asparagus bean	2,500	21.53	60,115	16,235	43,881
बकुला	Broad bean	111	17.88	3,821	360	3,461
भटमासकोसा	Soya bean	174	19.77	5,940	393	5,547
अन्य कोसे तरकारी	Other Leguminosae	46	19.31	901	125	776

Table 5.7.1: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, Mountains<<<<

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
रायोको साग	Broad leaf mustard	12,847	17.04	230,964	69,155	161,809
चम्सुरको साग	Ground cress	845	24.00	22,811	12,585	10,226
पालुङ्को साग	Spinach	570	23.29	15,382	8,728	6,654
तोरीको साग	Mustard leaf	1,611	16.65	29,464	6,954	22,510
फापरको साग	Buckwheat leaf	48	20.01	669	443	226
मेथीको साग	Fenugreek leaf	551	28.05	16,575	11,665	4,910
हरियो लसुन	Garlic Green	1,185	23.89	37,509	15,463	22,046
हरियो प्याज	Onion Green	2,462	18.77	50,171	33,073	17,098
फर्सीको मुन्टा	Pumpkin shoot	5,083	15.53	89,197	12,950	76,247
कर्कलो/गाभा	Colocasia leaf	427	9.64	7,116	754	6,362
अन्य साग	Other Leafy Vegetable	497	28.77	12,329	10,682	1,648
मूला	Radish	8,953	11.61	111,121	58,742	52,379
सलगम/गान्टेमूला	Turnip	18	14.36	219	81	138
गाजर	Carrot	85	27.21	5,013	2,897	2,116
प्याज	Onion	3,075	27.90	89,433	34,586	54,848
लसुन	Garlic	2,547	47.96	123,243	35,964	87,278
अन्य जरे तरकारी	Other Root Vegetable	59	30.51	1,742	701	1,041
तरुल	Yam	2,063	18.24	37,095	3,872	33,223
पिँडालु	Colocasia/Arum	9,591	15.93	152,170	66,328	85,842
ओल	Elephant foot yam					
सखरखण्ड	Sweet potato	2,143	15.39	35,000	6,077	28,923
अन्य कन्दमूल	Other Tuber Vegetable	122	23.95	2,722	379	2,343
कुरिलो	Asparagus					
अन्य तरकारी	Other Vegetable	115	39.56	4,679	123	4,556
<b>Mountains</b>		<b>121,565</b>	<b>22.17</b>	<b>2,349,584</b>	<b>674,587</b>	<b>1,674,997</b>

Table 5.7.2: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, Hills>>>

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
काउली/फूलगोभी	Cauliflower	141,866	20.18	2,599,575	719,850	1,879,725
बन्दागोभी/पातगोभी	Cabbage	130,370	13.55	1,373,851	423,171	950,680
ब्रोकाउली	Broccoli	1,998	28.68	53,339	18,271	35,068
ग्याँठगोभी	Knolkhol	291	18.11	6,534	2,098	4,436
गोलभेंडा/टमाटर	Tomato	224,385	21.18	4,175,895	1,086,909	3,088,986
भन्टा/बैगन	Brinjal/Eggplant	11,590	15.02	205,561	37,652	167,910
करेलो	Bitter gourd	12,437	20.75	303,717	43,315	260,401
भिँडी/रामतोरियाँ	Lady's finger/Okra	12,176	18.70	250,329	51,744	198,585
पीरो खुर्सानी	Hot pepper/Chilli	18,211	37.72	673,633	80,334	593,300
अकबरे खुर्सानी	Scotch bonnet chilli	1,838	139.77	247,285	24,151	223,134
भिँडे/माछा खुर्सानी	Sweet pepper	3,093	37.47	111,733	21,589	90,144
काँक्रो	Cucumber	81,226	13.94	1,206,237	174,621	1,031,616
फर्सी	Pumpkin	64,538	10.27	742,587	47,711	694,877
जुकिनी फर्सी	Squash	1,676	14.05	35,632	6,399	29,233
लौका	Bottle gourd	16,783	13.38	233,438	23,718	209,720
घिरौलो/तिरही	Sponge/Ridge gourd	26,427	14.19	410,119	31,477	378,641
चिचिन्डो	Snake gourd	5,368	14.68	109,652	7,899	101,754
बरेलो	Balsam apple	7,596	14.72	156,491	17,112	139,378
इस्कस	Chayote/Christophine	102,001	10.09	847,311	98,245	749,066
परवर	Pointed gourd	70	8.57	449	19	430
कुभिन्डो	Ash gourd	3,484	8.91	50,081	1,294	48,787
तरबुजो	Watermelon	354	8.69	3,429	222	3,207
अन्य फल तरकारी	Other Cucurbitaceae	806	30.95	15,499	1,610	13,890
मटरकोसा	Pea	5,872	28.11	183,781	46,804	136,978
सिमी	Bean	50,423	21.52	1,118,899	229,598	889,301
बोडी	Asparagus bean	30,177	21.96	646,761	158,479	488,282
बकुला	Broad bean	1,997	18.20	53,038	12,400	40,638
भटमासकोसा	Soya bean	1,495	25.01	49,858	7,561	42,297
अन्य कोसे तरकारी	Other Leguminosae	1,472	19.72	33,115	4,136	28,979

Table 5.7.2: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, Hills<<<<

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
रायोको साग	Broad leaf mustard	70,509	14.02	1,187,368	226,617	960,752
चम्सुरको साग	Ground cress	1,899	27.55	76,420	12,641	63,779
पालुङ्को साग	Spinach	1,811	25.41	62,624	6,094	56,530
तोरीको साग	Mustard leaf	6,729	15.08	122,002	16,558	105,444
फापरको साग	Buckwheat leaf	348	19.49	8,061	1,703	6,358
मेथीको साग	Fenugreek leaf	287	27.28	15,291	1,806	13,485
हरियो लसुन	Garlic Green	2,575	32.13	127,014	29,348	97,667
हरियो प्याज	Onion Green	3,388	26.52	108,326	20,057	88,269
फर्सीको मुन्टा	Pumpkin shoot	21,516	14.41	420,332	56,664	363,668
कर्कलो/गाभा	Colocasia leaf	1,951	13.02	38,690	12,627	26,063
अन्य साग	Other Leafy Vegetable	1,753	36.33	110,791	17,108	93,683
मूला	Radish	94,809	9.72	958,471	174,843	783,628
सलगम/गान्टेमूला	Turnip	574	16.79	15,507	1,696	13,811
गाजर	Carrot	700	22.25	32,462	4,665	27,797
प्याज	Onion	24,800	25.55	686,211	134,428	551,783
लसुन	Garlic	16,363	46.52	824,693	169,861	654,832
अन्य जरे तरकारी	Other Root Vegetable	1,890	37.13	68,784	10,243	58,541
तरुल	Yam	7,310	19.45	180,295	12,837	167,458
पिँडालु	Colocasia/Arum	29,472	16.70	537,380	145,582	391,798
ओल	Elephant foot yam	12	15.00	182	19	163
सखरखण्ड	Sweet potato	8,118	17.64	150,116	18,365	131,751
अन्य कन्दमूल	Other Tuber Vegetable	3,765	28.20	145,598	1,949	143,650
कुरिलो	Asparagus	250	68.91	8,272	17,087	-8,815
अन्य तरकारी	Other Vegetable	195	39.50	9,536	320	9,216
<b>Hills</b>		<b>1,261,041</b>	<b>19.83</b>	<b>21,792,255</b>	<b>4,471,504</b>	<b>17,320,752</b>

Table 5.7.3: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, Tarai>>>

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
काउली/फूलगोभी	Cauliflower	259,073	15.22	3,792,968	848,810	2,944,158
बन्दागोभी/पातगोभी	Cabbage	168,716	11.61	2,086,230	319,121	1,767,108
ब्रोकाउली	Broccoli	4,286	21.96	114,963	16,819	98,144
ग्याँठगोभी	Knolkhol	426	13.69	6,680	1,227	5,452
गोलभेंडा/टमाटर	Tomato	90,460	15.42	1,389,122	195,406	1,193,716
भन्टा/बैगन	Brinjal/Eggplant	87,000	13.07	1,047,821	220,629	827,192
करेलो	Bitter gourd	32,513	21.34	654,490	169,067	485,422
भिँडी/रामतोरियाँ	Lady's finger/Okra	45,893	16.29	731,972	151,344	580,628
पीरो खुर्सानी	Hot pepper/Chilli	15,543	38.80	595,422	117,264	478,158
अकबरे खुर्सानी	Scotch bonnet chilli	951	101.99	82,112	5,538	76,574
भिँडे/माछा खुर्सानी	Sweet pepper	404	27.62	19,582	3,507	16,075
काँक्रो	Cucumber	54,333	13.83	750,192	117,476	632,717
फर्सी	Pumpkin	88,104	9.55	801,370	81,334	720,036
जुकिनी फर्सी	Squash	18,183	10.10	222,252	29,390	192,862
लौका	Bottle gourd	105,291	9.65	1,037,525	160,689	876,835
घिरौलो/तिरही	Sponge/Ridge gourd	31,900	12.07	412,641	55,550	357,090
चिचिन्डो	Snake gourd	4,016	14.24	56,782	13,170	43,612
बरेलो	Balsam apple	510	17.71	9,857	2,544	7,314
इस्कस	Chayote/Christophine	30,403	11.33	160,410	28,422	131,988
परवर	Pointed gourd	9,700	21.12	156,243	24,100	132,143
कुभिन्डो	Ash gourd	4,356	8.18	36,082	1,531	34,552
तरबुजो	Watermelon	11,207	11.17	90,837	22,808	68,029
अन्य फल तरकारी	Other Cucurbitaceae	17,216	21.64	232,530	51,581	180,949
मटरकोसा	Pea	8,049	25.24	208,392	63,835	144,556
सिमी	Bean	27,809	20.18	565,319	116,172	449,147
बोडी	Asparagus bean	69,524	20.01	1,417,972	173,758	1,244,214
बकुला	Broad bean	2,100	17.42	56,729	13,678	43,052
भटमासकोसा	Soya bean	509	24.38	11,850	1,689	10,161
अन्य कोसे तरकारी	Other Leguminosae	1,350	21.64	27,272	6,356	20,915



Table 5.7.3: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, Tarai<<<

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
रायोको साग	Broad leaf mustard	33,638	13.24	512,230	71,238	440,992
चम्सुरको साग	Ground cress	920	21.66	21,611	4,891	16,720
पालुङ्को साग	Spinach	2,073	18.04	45,664	12,598	33,066
तोरीको साग	Mustard leaf	4,390	15.09	78,509	21,001	57,507
फापरको साग	Buckwheat leaf	119	12.68	1,861	1,459	403
मेथीको साग	Fenugreek leaf	559	20.05	18,513	3,163	15,349
हरियो लसुन	Garlic Green	2,062	32.40	76,876	35,960	40,917
हरियो प्याज	Onion Green	5,412	19.12	111,979	30,798	81,181
फर्सीको मुन्टा	Pumpkin shoot	10,048	15.70	184,014	11,023	172,990
कर्कलो / गाभा	Colocasia leaf	1,683	12.86	25,891	7,982	17,909
अन्य साग	Other Leafy Vegetable	10,939	27.20	261,530	32,822	228,708
मूला	Radish	60,314	8.39	552,643	98,545	454,097
सलगम / गान्टेमूला	Turnip	150	15.21	3,339	995	2,344
गाजर	Carrot	8,798	19.60	109,136	31,483	77,652
प्याज	Onion	59,284	18.52	997,803	240,622	757,181
लसुन	Garlic	15,921	44.50	662,571	175,880	486,690
अन्य जरे तरकारी	Other Root Vegetable	957	27.85	23,320	922	22,398
तरुल	Yam	5,823	19.23	108,092	14,694	93,398
पिँडालु	Colocasia/Arum	17,881	17.62	302,676	89,526	213,150
ओल	Elephant foot yam	2,532	17.37	45,159	11,432	33,727
सखरखण्ड	Sweet potato	3,816	17.62	57,828	11,602	46,226
अन्य कन्दमूल	Other Tuber Vegetable	460	48.72	23,352	184	23,168
कुरिलो	Asparagus	56	114.41	1,622	768	855
अन्य तरकारी	Other Vegetable	259	12.69	2,088	61	2,027
<b>Tarai</b>		<b>1,437,921</b>	<b>18.32</b>	<b>21,003,921</b>	<b>3,922,466</b>	<b>17,081,455</b>

Table 5.8.1: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, Eastern>>>

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
काउली/फूलगोभी	Cauliflower	135,969	17.71	2,175,159	505,646	1,669,513
बन्दागोभी/पातगोभी	Cabbage	77,936	12.51	715,410	239,646	475,764
ब्रोकाउली	Broccoli	1,093	19.75	24,687	7,915	16,772
ग्याँठगोभी	Knolkhol					
गोलभेंडा/टमाटर	Tomato	124,985	19.25	2,445,941	601,463	1,844,478
भन्टा/बैगन	Brinjal/Eggplant	41,368	13.95	580,900	99,851	481,049
करेलो	Bitter gourd	7,493	19.66	176,665	32,332	144,333
भिँडी/रामतोरियाँ	Lady's finger/Okra	14,312	18.94	248,883	42,671	206,212
पीरो खुर्सानी	Hot pepper/Chilli	4,877	47.42	229,762	28,879	200,883
अकबरे खुर्सानी	Scotch bonnet chilli	2,210	129.66	322,663	23,642	299,021
भिँडे/माछा खुर्सानी	Sweet pepper	725	46.60	35,747	5,588	30,159
काँक्रो	Cucumber	19,260	14.24	332,787	40,480	292,307
फर्सी	Pumpkin	76,182	10.40	787,884	63,950	723,934
जुकिनी फर्सी	Squash	282	12.81	4,929	2,185	2,744
लौका	Bottle gourd	37,159	9.14	284,107	30,179	253,927
घिरौलो/तिरही	Sponge/Ridge gourd	11,591	12.87	158,355	20,286	138,069
चिचिन्डो	Snake gourd	137	9.55	1,301	466	835
बरेलो	Balsam apple	4,396	15.58	90,650	11,651	78,999
इस्कस	Chayote/Christophine	120,136	12.03	922,367	131,755	790,612
परवर	Pointed gourd	3,902	20.48	77,867	4,487	73,380
कुभिन्डो	Ash gourd	2,464	8.77	20,254	1,499	18,755
तरबुजो	Watermelon	375	8.69	3,634	99	3,535
अन्य फल तरकारी	Other Cucurbitaceae	9,141	28.28	163,006	25,132	137,875
मटरकोसा	Pea	4,635	29.13	134,809	43,543	91,266
सिमी	Bean	14,209	23.94	401,441	81,332	320,109
बोडी	Asparagus bean	9,406	27.18	282,714	53,364	229,349
बकुला	Broad bean	538	20.98	28,366	4,261	24,105
भटमासकोसा	Soya bean	77	18.58	2,000	427	1,573
अन्य कोसे तरकारी	Other Leguminosae	330	32.61	11,464	3,594	7,870

Table 5.8.1: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, Eastern<<<<

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
रायोको साग	Broad leaf mustard	36,163	18.50	752,701	106,001	646,700
चम्सुरको साग	Ground cress	227	35.18	22,065	3,087	18,979
पालुङ्को साग	Spinach	408	18.38	6,751	4,374	2,376
तोरीको साग	Mustard leaf	3,793	17.88	79,214	22,013	57,201
फापरको साग	Buckwheat leaf	15	22.29	329	1,148	-819
मेथीको साग	Fenugreek leaf	140	25.17	7,013	1,100	5,913
हरियो लसुन	Garlic Green	1,309	42.59	61,321	26,273	35,048
हरियो प्याज	Onion Green	1,756	29.26	52,125	15,905	36,220
फर्सीको मुन्टा	Pumpkin shoot	12,911	18.20	303,297	26,468	276,829
कर्कलो / गाभा	Colocasia leaf	47	15.88	543	87	457
अन्य साग	Other Leafy Vegetable	5,763	30.88	183,456	26,952	156,504
मूला	Radish	67,033	9.58	678,547	118,417	560,130
सलगम / गान्टेमूला	Turnip	5	22.35	249	58	191
गाजर	Carrot	91	26.43	5,227	2,840	2,387
प्याज	Onion	9,005	33.36	331,418	65,021	266,397
लसुन	Garlic	6,228	53.57	390,029	93,964	296,065
अन्य जरे तरकारी	Other Root Vegetable	1,631	31.34	45,116	3,154	41,962
तरुल	Yam	4,400	18.12	101,271	9,127	92,144
पिँडालु	Colocasia/Arum	6,036	14.90	113,367	18,524	94,844
ओल	Elephant foot yam	927	18.16	10,307	4,978	5,329
सखरखण्ड	Sweet potato	6,882	13.83	109,057	15,941	93,116
अन्य कन्दमूल	Other Tuber Vegetable	4,299	29.87	170,051	2,324	167,727
कुरिलो	Asparagus	54	20.00	1,075	430	645
अन्य तरकारी	Other Vegetable	567	35.31	16,264	503	15,760
<b>Eastern</b>		<b>894,877</b>	<b>22.20</b>	<b>14,104,546</b>	<b>2,675,014</b>	<b>11,429,532</b>

Table 5.8.2: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, Central>>>

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
काउली/फूलगोभी	Cauliflower	208,447	16.64	3,142,343	712,799	2,429,544
बन्दागोभी/पातगोभी	Cabbage	169,971	12.20	2,067,303	340,098	1,727,205
ब्रोकाउली	Broccoli	2,222	21.66	27,955	8,718	19,237
ग्याँठगोभी	Knolkhol	297	18.95	6,672	2,240	4,432
गोलभेंडा/टमाटर	Tomato	130,897	17.58	2,049,157	482,725	1,566,432
भन्टा/बैगन	Brinjal/Eggplant	44,734	13.95	478,725	132,704	346,021
करेलो	Bitter gourd	21,478	20.13	398,555	118,958	279,597
भिँडी/रामतोरियाँ	Lady's finger/Okra	31,226	16.88	498,625	120,704	377,921
पीरो खुर्सानी	Hot pepper/Chilli	10,541	42.75	395,820	99,887	295,932
अकबरे खुर्सानी	Scotch bonnet chilli	868	50.52	33,553	10,368	23,185
भिँडे/माछा खुर्सानी	Sweet pepper	1,854	30.16	62,749	14,369	48,380
काँक्रो	Cucumber	53,415	15.19	725,299	130,598	594,701
फर्सी	Pumpkin	45,795	9.93	412,368	46,076	366,292
जुकिनी फर्सी	Squash	1,571	12.08	27,144	6,618	20,526
लौका	Bottle gourd	49,965	11.40	578,409	106,913	471,496
घिरौलो/तिरही	Sponge/Ridge gourd	27,569	12.86	358,002	44,409	313,593
चिचिन्डो	Snake gourd	4,960	15.59	83,701	15,866	67,836
बरेलो	Balsam apple	1,793	17.23	37,653	6,940	30,713
इस्कस	Chayote/Christophine	22,196	8.20	162,261	5,772	156,489
परवर	Pointed gourd	5,635	12.47	73,957	19,211	54,746
कुभिन्डो	Ash gourd	1,726	7.43	20,810	749	20,061
तरबुजो	Watermelon	31	10.00	308	133	174
अन्य फल तरकारी	Other Cucurbitaceae	4,648	13.64	38,587	9,894	28,694
मटरकोसा	Pea	4,916	24.21	124,394	43,110	81,284
सिमी	Bean	39,360	17.93	714,712	217,998	496,715
बोडी	Asparagus bean	70,094	18.40	1,308,156	206,055	1,102,101
बकुला	Broad bean	2,389	17.66	58,109	15,138	42,971
भटमासकोसा	Soya bean	1,404	24.26	39,505	7,803	31,701
अन्य कोसे तरकारी	Other Leguminosae	1,658	18.25	29,460	3,757	25,703

Table 5.8.2: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, Central<<<

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
रायोको साग	Broad leaf mustard	57,185	12.57	813,360	158,901	654,459
चम्सुरको साग	Ground cress	2,090	24.53	63,099	13,563	49,536
पालुङ्गोको साग	Spinach	1,742	24.23	60,064	6,526	53,538
तोरीको साग	Mustard leaf	4,339	15.46	84,549	13,329	71,220
फापरको साग	Buckwheat leaf	320	15.51	7,753	1,457	6,295
मेथीको साग	Fenugreek leaf	315	26.16	10,816	1,565	9,251
हरियो लसुन	Garlic Green	2,566	25.02	114,731	31,147	83,585
हरियो प्याज	Onion Green	5,417	20.37	126,613	27,299	99,314
फर्सीको मुन्टा	Pumpkin shoot	19,646	13.86	320,078	45,606	274,472
कर्कलो/गाभा	Colocasia leaf	2,198	12.55	45,144	13,254	31,891
अन्य साग	Other Leafy Vegetable	1,071	31.41	36,593	7,238	29,354
मूला	Radish	50,034	9.18	437,156	101,603	335,553
सलगम/गान्टेमूला	Turnip	413	15.66	12,192	1,522	10,670
गाजर	Carrot	8,562	20.71	106,648	31,859	74,789
प्याज	Onion	32,809	20.71	560,974	147,545	413,429
लसुन	Garlic	12,674	47.35	594,057	132,369	461,688
अन्य जरे तरकारी	Other Root Vegetable	1,189	33.82	43,908	8,396	35,512
तरुल	Yam	7,058	17.65	131,620	18,234	113,386
पिँडालु	Colocasia/Arum	16,159	15.81	250,480	86,559	163,921
ओल	Elephant foot yam	615	12.98	8,564	503	8,061
सखरखण्ड	Sweet potato	2,824	17.85	66,620	8,060	58,560
अन्य कन्दमूल	Other Tuber Vegetable					
कुरिलो	Asparagus	233	80.28	6,761	17,408	-10,647
अन्य तरकारी	Other Vegetable					
<b>Central</b>		<b>1,191,119</b>	<b>18.66</b>	<b>17,856,071</b>	<b>3,804,553</b>	<b>14,051,519</b>

Table 5.8.3: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, Western>>>

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
काउली/फूलगोभी	Cauliflower	41,130	18.64	811,242	252,193	559,050
बन्दागोभी/पातगोभी	Cabbage	35,617	12.87	462,585	134,898	327,686
ब्रोकाउली	Broccoli	2,834	29.90	114,518	19,280	95,238
ग्याँठगोभी	Knolkhol	63	16.90	922	264	657
गोलभेंडा/टमाटर	Tomato	37,519	21.78	802,730	154,981	647,749
भन्टा/बैगन	Brinjal/Eggplant	7,795	13.13	110,756	19,647	91,109
करेलो	Bitter gourd	8,634	22.57	218,524	39,371	179,152
भिँडी/रामतोरियाँ	Lady's finger/Okra	5,320	17.12	98,123	21,976	76,147
पीरो खुर्सानी	Hot pepper/Chilli	11,621	43.36	474,454	49,881	424,573
अकबरे खुर्सानी	Scotch bonnet chilli	15	49.06	772	46	727
भिँडे/माछा खुर्सानी	Sweet pepper	151	29.57	10,821	1,525	9,296
काँक्रो	Cucumber	51,342	15.24	771,092	116,402	654,691
फर्सी	Pumpkin	17,386	10.89	210,049	20,206	189,843
जुकिनी फर्सी	Squash	18,222	14.11	232,700	29,759	202,941
लौका	Bottle gourd	19,356	13.44	252,472	33,112	219,360
घिरौलो/तिरही	Sponge/Ridge gourd	18,675	14.81	304,768	24,155	280,613
चिचिन्डो	Snake gourd	922	15.94	17,398	1,658	15,739
बरेलो	Balsam apple	248	11.22	1,932	114	1,819
इस्कस	Chayote/Christophine	4,461	7.71	42,197	1,255	40,942
परवर	Pointed gourd	224	24.61	4,488	381	4,107
कुभिन्डो	Ash gourd	1,892	8.74	17,399	425	16,974
तरबुजो	Watermelon	11,155	11.47	90,325	22,798	67,527
अन्य फल तरकारी	Other Cucurbitaceae	3,867	16.04	40,857	17,202	23,655
मटरकोसा	Pea	2,871	26.26	85,183	20,620	64,563
सिमी	Bean	19,676	22.76	460,967	44,795	416,172
बोडी	Asparagus bean	14,723	23.06	357,199	70,295	286,904
बकुला	Broad bean	834	18.34	17,375	4,477	12,898
भटमासकोसा	Soya bean	107	25.40	9,870	740	9,130
अन्य कोसे तरकारी	Other Leguminosae	873	19.08	20,245	3,222	17,023

Table 5.8.3: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, Western<<<

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
रायोको साग	Broad leaf mustard	10,887	13.45	177,541	46,138	131,403
चम्सुरको साग	Ground cress	475	22.07	11,099	2,228	8,871
पालुङ्को साग	Spinach	992	19.07	25,710	4,071	21,639
तोरीको साग	Mustard leaf	746	14.34	11,897	4,307	7,590
फापरको साग	Buckwheat leaf	107	12.00	1,289	826	463
मेथीको साग	Fenugreek leaf	154	22.90	8,869	1,063	7,807
हरियो लसुन	Garlic Green	947	28.12	28,517	5,175	23,343
हरियो प्याज	Onion Green	1,722	19.47	44,708	6,606	38,102
फर्सीको मुन्टा	Pumpkin shoot	3,717	12.64	61,317	7,529	53,789
कर्कलो / गाभा	Colocasia leaf	1,328	12.27	19,380	5,666	13,714
अन्य साग	Other Leafy Vegetable	5,729	34.03	141,312	16,756	124,557
मूला	Radish	23,926	8.76	244,742	53,475	191,267
सलगम / गान्टेमूला	Turnip	43	16.29	702	399	304
गाजर	Carrot	637	19.42	25,644	3,082	22,562
प्याज	Onion	21,710	21.59	463,094	99,855	363,239
लसुन	Garlic	4,010	53.16	228,732	69,419	159,313
अन्य जरे तरकारी	Other Root Vegetable					
तरुल	Yam	2,096	25.95	52,227	2,186	50,041
पिँडालु	Colocasia/Arum	12,849	18.43	246,071	82,399	163,672
ओल	Elephant foot yam	981	16.74	25,734	5,810	19,923
सखरखण्ड	Sweet potato	3,617	21.17	53,301	11,424	41,877
अन्य कन्दमूल	Other Tuber Vegetable					
कुरिलो	Asparagus	4	100.00	442	9	433
अन्य तरकारी	Other Vegetable					
<b>Western</b>		<b>434,210</b>	<b>19.93</b>	<b>7,914,292</b>	<b>1,534,099</b>	<b>6,380,193</b>

Table 5.8.4: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, MidWest>>>

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
काउली/फूलगोभी	Cauliflower	13,100	17.53	250,003	96,542	153,461
बन्दागोभी/पातगोभी	Cabbage	12,702	12.74	181,493	31,054	150,439
ब्रोकाउली	Broccoli	156	14.53	2,283	381	1,902
ग्याँठगोभी	Knolkhol	344	12.58	5,182	736	4,446
गोलभेंडा/टमाटर	Tomato	13,864	17.19	228,561	40,309	188,253
भन्टा/बैगन	Brinjal/Eggplant	4,429	15.33	87,816	7,982	79,833
करेलो	Bitter gourd	7,029	20.82	159,926	20,152	139,774
भिँडी/रामतोरियाँ	Lady's finger/Okra	6,613	17.40	133,796	14,137	119,659
पीरो खुर्सानी	Hot pepper/Chilli	6,830	32.61	223,409	25,023	198,386
अकबरे खुर्सानी	Scotch bonnet chilli	7	100.38	617	4	613
भिँडे/माछा खुर्सानी	Sweet pepper	597	30.43	17,288	2,991	14,296
काँक्रो	Cucumber	13,274	11.73	169,624	10,567	159,056
फर्सी	Pumpkin	18,957	9.28	197,573	8,944	188,629
जुकिनी फर्सी	Squash	74	8.66	685	33	652
लौका	Bottle gourd	11,894	10.55	121,581	10,508	111,073
घिरौलो/तिरही	Sponge/Ridge gourd	968	10.72	13,683	1,387	12,296
चिचिन्डो	Snake gourd	2,641	13.46	52,866	1,852	51,014
बरेलो	Balsam apple	1,422	13.97	33,566	854	32,713
इस्कस	Chayote/Christophine	1,729	10.81	22,125	482	21,643
परवर	Pointed gourd	14	39.51	516	60	456
कुभिन्डो	Ash gourd	1,905	9.38	28,430	480	27,950
तरबुजो	Watermelon					
अन्य फल तरकारी	Other Cucurbitaceae	90	11.61	1,107	513	594
मटरकोसा	Pea	1,607	28.16	51,446	4,457	46,989
सिमी	Bean	7,294	20.07	162,129	13,866	148,263
बोडी	Asparagus bean	6,215	19.81	140,826	13,465	127,361
बकुला	Broad bean	194	13.09	5,317	471	4,846
भटमासकोसा	Soya bean	570	26.95	15,604	619	14,985
अन्य कोसे तरकारी	Other Leguminosae	1	20.00	22	11	11



Table 5.8.4: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, MidWest<<<<

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
रायोको साग	Broad leaf mustard	7,338	12.83	110,748	10,147	100,601
चम्सुरको साग	Ground cress	128	19.39	5,558	254	5,304
पालुङ्गोको साग	Spinach	229	16.62	6,988	724	6,264
तोरीको साग	Mustard leaf	3,547	13.33	49,929	3,995	45,933
फापरको साग	Buckwheat leaf	72	15.40	1,220	172	1,048
मेथीको साग	Fenugreek leaf	171	20.51	6,459	653	5,805
हरियो लसुन	Garlic Green	100	21.12	2,997	896	2,101
हरियो प्याज	Onion Green	74	23.81	2,021	645	1,376
फर्सीको मुन्टा	Pumpkin shoot	358	16.04	8,623	807	7,816
कर्कलो / गाभा	Colocasia leaf	483	12.85	6,554	2,335	4,220
अन्य साग	Other Leafy Vegetable	287	25.02	11,524	1,188	10,336
मूला	Radish	12,722	10.33	150,638	14,639	135,999
सलगम / गान्टेमूला	Turnip	126	23.69	3,913	196	3,717
गाजर	Carrot	165	23.02	6,100	535	5,565
प्याज	Onion	16,744	19.40	288,941	55,961	232,980
लसुन	Garlic	8,703	34.64	285,245	50,845	234,400
अन्य जरे तरकारी	Other Root Vegetable	81	45.00	4,438	252	4,186
तरुल	Yam	1,442	16.93	37,531	1,693	35,838
पिँडालु	Colocasia/Arum	11,665	17.47	213,038	44,815	168,223
ओल	Elephant foot yam	21	34.04	736	159	577
सखरखण्ड	Sweet potato	716	17.29	13,232	580	12,652
अन्य कन्दमूल	Other Tuber Vegetable	42	30.00	1,267	129	1,138
कुरिलो	Asparagus	16	100.00	1,616	8	1,609
अन्य तरकारी	Other Vegetable					
<b>MidWest</b>		<b>199,756</b>	<b>17.51</b>	<b>3,526,788</b>	<b>499,507</b>	<b>3,027,281</b>

Table 5.8.5: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, FarWest>>>

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
काउली/फूलगोभी	Cauliflower	5,935	20.91	128,883	49,077	79,806
बन्दागोभी/पातगोभी	Cabbage	5,839	14.40	90,167	23,830	66,337
ब्रोकाउली	Broccoli					
ग्याँठगोभी	Knolkhol	13	11.28	438	85	352
गोलभेंडा/टमाटर	Tomato	10,393	18.16	151,940	27,887	124,054
भन्टा/बैगन	Brinjal/Eggplant	2,453	15.15	40,095	8,818	31,277
करेलो	Bitter gourd	1,718	21.63	42,280	7,942	34,338
भिँडी/रामतोरियाँ	Lady's finger/Okra	1,650	16.80	32,310	6,995	25,315
पीरो खुर्सानी	Hot pepper/Chilli	2,611	36.58	102,107	25,361	76,746
अकबरे खुर्सानी	Scotch bonnet chilli	3	35.00	112	5	107
भिँडे/माछा खुर्सानी	Sweet pepper	169	21.52	4,709	622	4,088
काँक्रो	Cucumber	5,778	15.34	96,199	20,400	75,799
फर्सी	Pumpkin	8,104	10.98	93,924	18,407	75,517
जुकिनी फर्सी	Squash	76	10.98	1,175	52	1,123
लौका	Bottle gourd	5,288	11.68	64,317	10,817	53,500
घिरौलो/तिरही	Sponge/Ridge gourd	1,542	12.83	23,366	3,465	19,901
चिचिन्डो	Snake gourd	852	13.46	14,394	1,936	12,458
बरेलो	Balsam apple	325	16.78	5,800	178	5,622
इस्कस	Chayote/Christophine	42	15.00	630	236	394
परवर	Pointed gourd	2	12.00	29	6	23
कुभिन्डो	Ash gourd	695	8.45	6,421	490	5,931
तरबुजो	Watermelon					
अन्य फल तरकारी	Other Cucurbitaceae	691	15.89	10,823	3,508	7,315
मटरकोसा	Pea	141	22.25	3,557	1,225	2,332
सिमी	Bean	1,241	19.51	26,107	4,283	21,824
बोडी	Asparagus bean	1,762	17.14	35,953	5,292	30,661
बकुला	Broad bean	253	14.38	4,421	2,090	2,331
भटमासकोसा	Soya bean	20	20.00	668	53	615
अन्य कोसे तरकारी	Other Leguminosae	6	15.35	98	34	64

Table 5.8.5: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, FarWest<<<

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
रायोको साग	Broad leaf mustard	5,422	12.53	76,213	45,823	30,390
चम्सुरको साग	Ground cress	744	23.06	19,020	10,985	8,035
पालुङ्गोको साग	Spinach	1,084	20.83	24,157	11,724	12,432
तोरीको साग	Mustard leaf	307	10.90	4,386	869	3,517
फापरको साग	Buckwheat leaf					
मेथीको साग	Fenugreek leaf	617	26.17	17,223	12,253	4,970
हरियो लसुन	Garlic Green	899	37.78	33,834	17,282	16,552
हरियो प्याज	Onion Green	2,292	19.58	45,009	33,473	11,536
फर्सीको मुन्टा	Pumpkin shoot	15	19.94	228	228	0
कर्कलो / गाभा	Colocasia leaf	5	12.99	75	23	53
अन्य साग	Other Leafy Vegetable	339	27.75	11,766	8,478	3,287
मूला	Radish	10,361	10.14	111,150	43,995	67,155
सलगम / गान्टेमूला	Turnip	156	12.89	2,010	598	1,412
गाजर	Carrot	127	17.66	2,992	729	2,263
प्याज	Onion	6,890	18.93	129,020	41,254	87,767
लसुन	Garlic	3,216	34.30	112,444	35,110	77,334
अन्य जरे तरकारी	Other Root Vegetable	6	45.00	383	64	319
तरुल	Yam	199	13.50	2,833	164	2,669
पिँडालु	Colocasia/Arum	10,234	17.01	169,269	69,139	100,130
ओल	Elephant foot yam					
सखरखण्ड	Sweet potato	39	18.25	734	39	695
अन्य कन्दमूल	Other Tuber Vegetable	6	60.00	354	59	295
कुरिलो	Asparagus					
अन्य तरकारी	Other Vegetable	2	20.00	40	1	39
<b>FarWest</b>		<b>100,566</b>	<b>18.46</b>	<b>1,744,064</b>	<b>555,385</b>	<b>1,188,679</b>

Table 5.9.1: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, Eastern Hills>>>>

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
काउली/फूलगोभी	Cauliflower	53,024	22.26	962,177	205,955	756,222
बन्दागोभी/पातगोभी	Cabbage	65,870	12.91	581,654	199,939	381,716
ब्रोकाउली	Broccoli	25	29.30	955	2,045	-1,090
ग्याँठगोभी	Knolkhol					
गोलभेंडा/टमाटर	Tomato	105,296	23.48	2,075,659	540,374	1,535,285
भन्टा/बैगन	Brinjal/Eggplant	420	19.31	27,496	2,909	24,587
करेलो	Bitter gourd	1,232	19.31	42,211	3,770	38,441
भिँडी/रामतोरियाँ	Lady's finger/Okra	208	26.10	7,516	689	6,827
पीरो खुर्सानी	Hot pepper/Chilli	1,685	51.11	93,146	6,605	86,541
अकबरे खुर्सानी	Scotch bonnet chilli	1,290	161.32	218,227	16,005	202,222
भिँडे/माछा खुर्सानी	Sweet pepper	584	49.21	31,087	4,361	26,726
काँक्रो	Cucumber	6,995	13.38	128,926	11,954	116,972
फर्सी	Pumpkin	24,621	10.83	298,888	18,021	280,867
जुकिनी फर्सी	Squash	24	13.77	333	47	287
लौका	Bottle gourd	1,310	12.41	26,915	2,651	24,264
घिरौलो/तिरही	Sponge/Ridge gourd	1,412	13.58	25,917	3,107	22,809
चिचिन्डो	Snake gourd	95	9.07	861	295	566
बरेलो	Balsam apple	4,104	14.30	83,465	9,510	73,956
इस्कस	Chayote/Christophine	81,452	11.68	673,593	92,737	580,856
परवर	Pointed gourd					
कुभिन्डो	Ash gourd	172	9.93	2,063	370	1,694
तरबुजो	Watermelon	324	7.47	3,121	89	3,032
अन्य फल तरकारी	Other Cucurbitaceae	519	43.59	10,344	966	9,378
मटरकोसा	Pea	4,094	28.44	115,868	38,348	77,519
सिमी	Bean	4,946	26.99	171,447	48,157	123,291
बोडी	Asparagus bean	3,394	34.31	116,417	18,420	97,997
बकुला	Broad bean	107	24.42	3,962	527	3,435
भटमासकोसा	Soya bean	49	14.46	1,303	372	932
अन्य कोसे तरकारी	Other Leguminosae	123	36.56	6,820	1,525	5,295

Table 5.9.1: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, Eastern Hills<<<<

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
रायोको साग	Broad leaf mustard	15,554	19.52	358,724	45,535	313,189
चम्सुरको साग	Ground cress	58	56.26	16,644	861	15,783
पालुङ्को साग	Spinach	1	20.00	19	36	-17
तोरीको साग	Mustard leaf	289	19.21	11,478	2,347	9,130
फापरको साग	Buckwheat leaf	9	13.08	111	96	15
मेथीको साग	Fenugreek leaf	16	29.76	1,149	517	632
हरियो लसुन	Garlic Green	157	44.65	13,006	3,036	9,971
हरियो प्याज	Onion Green	144	45.23	13,239	2,124	11,115
फर्सीको मुन्टा	Pumpkin shoot	6,136	17.05	152,781	13,124	139,658
कर्कलो / गाभा	Colocasia leaf					
अन्य साग	Other Leafy Vegetable	439	53.33	44,454	3,496	40,958
मूला	Radish	43,277	11.29	429,895	65,681	364,214
सलगम / गान्टेमूला	Turnip	5	22.35	249	58	191
गाजर	Carrot	19	27.83	2,825	370	2,455
प्याज	Onion	1,903	40.93	120,739	22,469	98,270
लसुन	Garlic	1,570	52.90	122,558	19,646	102,912
अन्य जरे तरकारी	Other Root Vegetable	639	36.99	20,915	2,211	18,705
तरुल	Yam	2,420	15.71	56,687	3,393	53,294
पिँडालु	Colocasia/Arum	2,860	13.33	63,084	6,508	56,576
ओल	Elephant foot yam					
सखरखण्ड	Sweet potato	5,561	12.91	87,606	11,015	76,592
अन्य कन्दमूल	Other Tuber Vegetable	3,723	28.17	144,332	1,820	142,512
कुरिलो	Asparagus					
अन्य तरकारी	Other Vegetable	193	40.59	9,496	319	9,177
<b>Eastern Hills</b>		<b>448,348</b>	<b>24.77</b>	<b>7,380,361</b>	<b>1,434,404</b>	<b>5,945,957</b>

Table 5.9.2: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, Eastern Tarai>>>

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
काउली/फूलगोभी	Cauliflower	81,286	14.26	1,146,777	280,211	866,566
बन्दागोभी/पातगोभी	Cabbage	10,157	10.98	98,639	24,310	74,329
ब्रोकाउली	Broccoli	1,047	15.93	22,591	4,666	17,925
ग्याँठगोभी	Knolkhol					
गोलभेंडा/टमाटर	Tomato	17,934	15.05	284,591	44,390	240,200
भन्टा/बैगन	Brinjal/Eggplant	39,663	12.33	526,138	92,558	433,581
करेलो	Bitter gourd	5,603	19.34	116,183	24,662	91,521
भिँडी/रामतोरियाँ	Lady's finger/Okra	13,339	15.74	220,114	39,969	180,146
पीरो खुर्सानी	Hot pepper/Chilli	2,570	35.90	96,220	16,498	79,721
अकबरे खुर्सानी	Scotch bonnet chilli	636	122.00	78,716	4,685	74,031
भिँडे/माछा खुर्सानी	Sweet pepper	142	31.72	4,660	1,228	3,433
काँक्रो	Cucumber	8,710	13.14	135,083	16,898	118,185
फर्सी	Pumpkin	44,547	9.23	410,449	34,405	376,044
जुकिनी फर्सी	Squash	147	8.93	1,324	128	1,197
लौका	Bottle gourd	34,765	7.44	235,152	22,639	212,514
घिरौलो/तिरही	Sponge/Ridge gourd	9,154	11.66	115,900	13,487	102,414
चिचिन्डो	Snake gourd	31	10.76	326	141	185
बरेलो	Balsam apple	269	22.29	6,773	2,125	4,647
इस्कस	Chayote/Christophine	29,743	11.47	155,170	27,928	127,242
परवर	Pointed gourd	3,895	20.15	77,701	4,461	73,241
कुभिन्डो	Ash gourd	1,915	8.28	15,023	732	14,291
तरबुजो	Watermelon	51	10.00	513	10	503
अन्य फल तरकारी	Other Cucurbitaceae	8,566	26.22	151,643	24,016	127,627
मटरकोसा	Pea	366	35.87	16,095	3,123	12,972
सिमी	Bean	7,404	22.74	184,117	21,908	162,209
बोडी	Asparagus bean	4,540	24.08	128,752	21,802	106,950
बकुला	Broad bean	430	20.27	24,377	3,723	20,654
भटमासकोसा	Soya bean	28	23.49	697	55	642
अन्य कोसे तरकारी	Other Leguminosae	186	31.10	4,206	2,009	2,197

Table 5.9.2: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, Eastern Tarai<<<

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
रायोको साग	Broad leaf mustard	17,135	15.31	302,266	37,544	264,722
चम्सुरको साग	Ground cress	157	29.47	4,830	914	3,916
पालुङ्को साग	Spinach	400	17.80	6,394	3,282	3,112
तोरीको साग	Mustard leaf	2,617	17.60	51,896	14,313	37,584
फापरको साग	Buckwheat leaf	3	16.63	58	769	-711
मेथीको साग	Fenugreek leaf	124	23.53	5,864	583	5,281
हरियो लसुन	Garlic Green	1,109	43.07	47,220	22,574	24,645
हरियो प्याज	Onion Green	1,568	22.96	37,724	12,919	24,805
फर्सीको मुन्टा	Pumpkin shoot	3,126	18.51	80,603	1,543	79,060
कर्कलो / गाभा	Colocasia leaf	47	15.88	543	87	457
अन्य साग	Other Leafy Vegetable	5,203	26.39	134,864	21,083	113,781
मूला	Radish	22,008	7.78	225,637	36,219	189,417
सलगम / गान्टेमूला	Turnip					
गाजर	Carrot	47	18.79	1,520	298	1,222
प्याज	Onion	6,262	27.27	176,708	29,243	147,465
लसुन	Garlic	4,169	54.97	244,129	68,502	175,627
अन्य जरे तरकारी	Other Root Vegetable	957	27.85	23,320	922	22,398
तरुल	Yam	606	25.15	22,458	3,337	19,121
पिँडालु	Colocasia/Arum	2,492	17.61	42,267	10,407	31,860
ओल	Elephant foot yam	927	18.16	10,307	4,978	5,329
सखरखण्ड	Sweet potato	26	17.73	1,666	58	1,608
अन्य कन्दमूल	Other Tuber Vegetable	460	48.72	23,352	184	23,168
कुरिलो	Asparagus	54	20.00	1,075	430	645
अन्य तरकारी	Other Vegetable	259	12.69	2,088	61	2,027
<b>Eastern Tarai</b>		<b>396,877</b>	<b>19.69</b>	<b>5,704,720</b>	<b>1,003,017</b>	<b>4,701,703</b>

Table 5.9.3: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, Central Hills>>>>

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
काउली/फूलगोभी	Cauliflower	57,329	18.93	974,546	266,858	707,688
बन्दागोभी/पातगोभी	Cabbage	33,950	12.47	378,180	118,913	259,267
ब्रोकाउली	Broccoli	837	22.44	9,929	3,179	6,750
ग्याँठगोभी	Knolkhol	286	18.69	6,453	2,085	4,368
गोलभेंडा/टमाटर	Tomato	87,967	17.78	1,426,872	414,194	1,012,678
भन्टा/बैगन	Brinjal/Eggplant	5,764	14.40	78,079	27,737	50,342
करेलो	Bitter gourd	5,577	19.24	114,346	27,579	86,767
भिँडी/रामतोरियाँ	Lady's finger/Okra	11,148	18.04	208,005	49,609	158,396
पीरो खुर्सानी	Hot pepper/Chilli	6,952	35.13	206,844	48,390	158,453
अकबरे खुर्सानी	Scotch bonnet chilli	538	34.20	28,329	8,138	20,191
भिँडे/माछा खुर्सानी	Sweet pepper	1,831	30.18	61,312	14,050	47,262
काँक्रो	Cucumber	39,118	15.14	530,648	105,535	425,113
फर्सी	Pumpkin	15,830	10.56	172,909	18,520	154,389
जुकिनी फर्सी	Squash	1,051	12.64	17,410	4,557	12,853
लौका	Bottle gourd	10,148	13.08	125,355	17,451	107,904
घिरौलो/तिरही	Sponge/Ridge gourd	14,178	13.25	198,775	16,881	181,894
चिचिन्डो	Snake gourd	2,268	15.47	46,441	5,389	41,051
बरेलो	Balsam apple	1,737	16.66	34,811	6,875	27,936
इस्कस	Chayote/Christophine	14,600	8.14	111,219	4,037	107,182
परवर	Pointed gourd	67	8.05	420	13	407
कुभिन्डो	Ash gourd	1,034	7.34	15,696	448	15,248
तरबुजो	Watermelon	31	10.00	308	133	174
अन्य फल तरकारी	Other Cucurbitaceae	39	26.45	999	30	969
मटरकोसा	Pea	455	25.84	19,238	3,771	15,467
सिमी	Bean	28,533	17.06	511,963	136,444	375,520
बोडी	Asparagus bean	19,823	18.32	336,895	119,436	217,459
बकुला	Broad bean	1,378	18.39	36,178	9,261	26,917
भटमासकोसा	Soya bean	789	25.57	23,699	5,899	17,800
अन्य कोसे तरकारी	Other Leguminosae	961	19.55	18,554	1,993	16,561



Table 5.9.3: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, Central Hills<<<

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
रायोको साग	Broad leaf mustard	41,943	12.91	617,734	138,318	479,416
चम्सुरको साग	Ground cress	1,553	28.36	49,952	10,848	39,104
पालुङ्गोको साग	Spinach	1,420	29.15	49,680	4,640	45,040
तोरीको साग	Mustard leaf	2,935	17.21	61,151	8,225	52,926
फापरको साग	Buckwheat leaf	166	27.14	5,530	680	4,850
मेथीको साग	Fenugreek leaf	120	38.67	5,021	639	4,382
हरियो लसुन	Garlic Green	1,508	31.48	86,937	21,290	65,647
हरियो प्याज	Onion Green	2,884	24.72	87,647	14,700	72,947
फर्सीको मुन्टा	Pumpkin shoot	13,014	14.80	231,567	39,462	192,105
कर्कलो / गाभा	Colocasia leaf	1,034	13.99	26,974	8,609	18,365
अन्य साग	Other Leafy Vegetable	745	38.28	31,295	5,940	25,355
मूला	Radish	27,604	9.52	259,046	66,646	192,400
सलगम / गान्टेमूला	Turnip	396	16.12	11,988	1,448	10,540
गाजर	Carrot	503	22.68	16,004	3,348	12,656
प्याज	Onion	9,588	24.14	231,849	57,754	174,095
लसुन	Garlic	9,095	47.33	445,893	93,476	352,416
अन्य जरे तरकारी	Other Root Vegetable	1,164	35.99	43,048	7,717	35,331
तरुल	Yam	2,150	17.43	51,884	6,835	45,049
पिँडालु	Colocasia/Arum	9,361	15.81	148,496	56,430	92,065
ओल	Elephant foot yam					
सखरखण्ड	Sweet potato	1,639	18.62	44,762	5,580	39,182
अन्य कन्दमूल	Other Tuber Vegetable					
कुरिलो	Asparagus	230	57.53	6,214	17,071	-10,857
अन्य तरकारी	Other Vegetable					
<b>Central Hills</b>		<b>493,274</b>	<b>18.95</b>	<b>8,207,084</b>	<b>2,007,062</b>	<b>6,200,021</b>

Table 5.9.4: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, Central Tarai>>>

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
काउली/फूलगोभी	Cauliflower	150,688	14.25	2,155,407	443,594	1,711,813
बन्दागोभी/पातगोभी	Cabbage	135,964	11.40	1,688,087	220,550	1,467,538
ब्रोकाउली	Broccoli	1,385	21.59	18,026	5,539	12,487
ग्याँठगोभी	Knolkhol	11	20.00	219	155	64
गोलभेंडा/टमाटर	Tomato	42,547	14.64	610,721	67,554	543,167
भन्टा/बैगन	Brinjal/Eggplant	38,644	12.72	393,055	104,426	288,629
करेलो	Bitter gourd	15,413	21.03	270,686	90,510	180,176
भिँडी/रामतोरियाँ	Lady's finger/Okra	19,880	15.98	284,657	70,573	214,084
पीरो खुर्सानी	Hot pepper/Chilli	2,787	43.53	127,540	45,328	82,212
अकबरे खुर्सानी	Scotch bonnet chilli	300	32.79	2,623	807	1,817
भिँडे/माछा खुर्सानी	Sweet pepper	23	30.10	1,436	319	1,118
काँक्रो	Cucumber	12,629	13.27	164,023	23,147	140,876
फर्सी	Pumpkin	26,015	8.37	195,784	25,350	170,435
जुकिनी फर्सी	Squash	264	10.34	4,257	1,213	3,043
लौका	Bottle gourd	39,769	10.06	452,592	89,383	363,209
घिरौलो/तिरही	Sponge/Ridge gourd	12,720	11.85	146,740	26,993	119,748
चिचिन्डो	Snake gourd	2,685	15.76	36,114	10,455	25,659
बरेलो	Balsam apple					
इस्कस	Chayote/Christophine	417	12.12	3,417	227	3,190
परवर	Pointed gourd	5,568	14.12	73,537	19,198	54,339
कुभिन्डो	Ash gourd	261	8.79	1,790	142	1,648
तरबुजो	Watermelon					
अन्य फल तरकारी	Other Cucurbitaceae	4,609	11.31	37,588	9,863	27,725
मटरकोसा	Pea	4,392	23.78	100,922	39,166	61,755
सिमी	Bean	9,416	19.40	174,832	78,871	95,961
बोडी	Asparagus bean	49,337	18.21	950,571	84,425	866,145
बकुला	Broad bean	901	17.03	18,138	5,528	12,610
भटमासकोसा	Soya bean	441	24.39	9,865	1,511	8,354
अन्य कोसे तरकारी	Other Leguminosae	672	16.02	10,442	1,699	8,743

Table 5.9.4: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, Central Tarai<<<

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
रायोको साग	Broad leaf mustard	8,913	10.83	96,801	13,934	82,867
चम्सुरको साग	Ground cress	357	20.78	7,798	2,095	5,704
पालुङ्को साग	Spinach	184	19.63	4,849	1,659	3,190
तोरीको साग	Mustard leaf	687	13.96	9,846	3,538	6,308
फापरको साग	Buckwheat leaf	110	12.09	1,714	618	1,096
मेथीको साग	Fenugreek leaf	156	22.00	3,213	849	2,364
हरियो लसुन	Garlic Green	518	22.95	14,826	6,241	8,585
हरियो प्याज	Onion Green	2,017	16.48	26,950	9,465	17,484
फर्सीको मुन्टा	Pumpkin shoot	5,198	13.47	69,261	5,205	64,056
कर्कलो / गाभा	Colocasia leaf	737	12.65	11,055	3,891	7,164
अन्य साग	Other Leafy Vegetable	61	26.45	1,743	599	1,144
मूला	Radish	19,399	8.25	141,401	29,345	112,055
सलगम / गान्टेमूला	Turnip	7	10.00	75	47	28
गाजर	Carrot	8,028	19.74	87,129	28,331	58,798
प्याज	Onion	21,979	15.88	294,275	81,713	212,562
लसुन	Garlic	2,373	45.87	85,879	29,337	56,541
अन्य जरे तरकारी	Other Root Vegetable					
तरुल	Yam	4,220	16.66	64,790	9,929	54,861
पिँडालु	Colocasia/Arum	5,062	16.93	78,681	26,695	51,987
ओल	Elephant foot yam	615	12.98	8,564	503	8,061
सखरखण्ड	Sweet potato	337	18.18	6,642	1,272	5,370
अन्य कन्दमूल	Other Tuber Vegetable					
कुरिलो	Asparagus	3	200.00	547	338	210
अन्य तरकारी	Other Vegetable					
<b>Central Tarai</b>		<b>658,700</b>	<b>17.65</b>	<b>8,949,108</b>	<b>1,722,129</b>	<b>7,226,980</b>

Table 5.9.5: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, Western Hills>>>>

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
काउली/फूलगोभी	Cauliflower	25,746	19.33	517,630	176,392	341,238
बन्दागोभी/पातगोभी	Cabbage	24,134	12.63	304,971	87,701	217,270
ब्रोकाउली	Broccoli	1,052	29.04	41,038	12,996	28,042
ग्याँठगोभी	Knolkhol					
गोलभेंडा/टमाटर	Tomato	18,733	24.52	449,008	92,453	356,555
भन्टा/बैगन	Brinjal/Eggplant	3,684	12.92	51,803	5,150	46,653
करेलो	Bitter gourd	3,314	21.84	82,056	5,132	76,924
भिँडी/रामतोरियाँ	Lady's finger/Okra	123	16.68	4,484	510	3,975
पीरो खुर्सानी	Hot pepper/Chilli	6,837	41.68	265,161	18,413	246,747
अकबरे खुर्सानी	Scotch bonnet chilli					
भिँडे/माछा खुर्सानी	Sweet pepper					
काँक्रो	Cucumber	25,397	14.76	416,038	53,384	362,654
फर्सी	Pumpkin	9,225	10.46	109,213	8,885	100,328
जुकिनी फर्सी	Squash	538	15.91	17,264	1,764	15,499
लौका	Bottle gourd	3,282	14.76	53,634	3,092	50,542
घिरौलो/तिरही	Sponge/Ridge gourd	10,208	15.03	174,011	10,749	163,262
चिचिन्डो	Snake gourd	724	15.88	13,128	1,138	11,989
बरेलो	Balsam apple	238	9.98	1,615	107	1,508
इस्कस	Chayote/Christophine	4,461	7.71	42,197	1,255	40,942
परवर	Pointed gourd					
कुभिन्डो	Ash gourd	399	8.15	3,500	111	3,389
तरबुजो	Watermelon					
अन्य फल तरकारी	Other Cucurbitaceae	153	13.12	2,080	98	1,981
मटरकोसा	Pea	455	26.98	14,223	3,059	11,164
सिमी	Bean	12,708	23.22	324,768	37,753	287,015
बोडी	Asparagus bean	4,772	23.45	131,791	17,321	114,470
बकुला	Broad bean	443	17.84	9,617	2,518	7,099
भटमासकोसा	Soya bean	88	24.97	9,311	675	8,636
अन्य कोसे तरकारी	Other Leguminosae	386	15.73	7,701	615	7,087

Table 5.9.5: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, Western Hills<<<

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
रायोको साग	Broad leaf mustard	8,498	12.54	129,847	39,018	90,830
चम्सुरको साग	Ground cress	169	23.14	4,243	701	3,543
पालुङ्गोको साग	Spinach	68	17.04	1,898	372	1,527
तोरीको साग	Mustard leaf	323	13.04	4,237	3,159	1,079
फापरको साग	Buckwheat leaf	107	12.00	1,289	826	463
मेथीको साग	Fenugreek leaf	33	25.36	3,234	243	2,991
हरियो लसुन	Garlic Green	843	25.47	24,655	4,597	20,059
हरियो प्याज	Onion Green	282	19.00	5,327	2,659	2,667
फर्सीको मुन्टा	Pumpkin shoot	2,225	11.57	31,420	3,959	27,461
कर्कलो / गाभा	Colocasia leaf	798	11.83	9,836	3,902	5,934
अन्य साग	Other Leafy Vegetable	437	34.81	27,571	7,183	20,388
मूला	Radish	16,323	8.42	163,205	36,270	126,935
सलगम / गान्टेमूला	Turnip					
गाजर	Carrot	121	19.70	9,864	713	9,151
प्याज	Onion	6,118	23.16	155,291	27,634	127,657
लसुन	Garlic	2,157	54.18	123,789	40,654	83,134
अन्य जरे तरकारी	Other Root Vegetable					
तरुल	Yam	1,351	25.34	35,253	1,080	34,173
पिँडालु	Colocasia/Arum	9,821	18.46	190,909	63,937	126,972
ओल	Elephant foot yam	3	15.00	50	8	42
सखरखण्ड	Sweet potato	241	22.65	5,261	1,298	3,964
अन्य कन्दमूल	Other Tuber Vegetable					
कुरिलो	Asparagus	4	100.00	442	9	433
अन्य तरकारी	Other Vegetable					
<b>Western Hills</b>		<b>207,025</b>	<b>19.32</b>	<b>3,973,864</b>	<b>779,495</b>	<b>3,194,368</b>

Table 5.9.6: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, Western Tarai>>>

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
काउली/फूलगोभी	Cauliflower	15,384	17.19	293,612	75,801	217,811
बन्दागोभी/पातगोभी	Cabbage	11,483	13.40	157,614	47,197	110,417
ब्रोकाउली	Broccoli	1,782	31.23	73,480	6,284	67,196
ग्याँठगोभी	Knolkhol	63	16.90	922	264	657
गोलभेंडा/टमाटर	Tomato	18,786	18.24	353,721	62,527	291,194
भन्टा/बैगन	Brinjal/Eggplant	4,111	13.33	58,953	14,497	44,456
करेलो	Bitter gourd	5,320	24.34	136,468	34,239	102,228
भिँडी/रामतोरियाँ	Lady's finger/Okra	5,196	17.20	93,639	21,466	72,173
पीरो खुर्सानी	Hot pepper/Chilli	4,785	45.59	209,294	31,468	177,826
अकबरे खुर्सानी	Scotch bonnet chilli	15	49.06	772	46	727
भिँडे/माछा खुर्सानी	Sweet pepper	151	29.57	10,821	1,525	9,296
काँक्रो	Cucumber	25,944	17.92	355,054	63,017	292,037
फर्सी	Pumpkin	8,161	11.60	100,836	11,320	89,515
जुकिनी फर्सी	Squash	17,684	10.82	215,436	27,994	187,442
लौका	Bottle gourd	16,073	12.28	198,838	30,020	168,818
घिरौलो/तिरही	Sponge/Ridge gourd	8,467	14.06	130,757	13,406	117,351
चिचिन्डो	Snake gourd	199	16.57	4,270	520	3,750
बरेलो	Balsam apple	11	30.00	317	6	311
इस्कस	Chayote/Christophine					
परवर	Pointed gourd	224	24.61	4,488	381	4,107
कुभिन्डो	Ash gourd	1,494	9.20	13,899	314	13,585
तरबुजो	Watermelon	11,155	11.47	90,325	22,798	67,527
अन्य फल तरकारी	Other Cucurbitaceae	3,713	16.73	38,777	17,103	21,674
मटरकोसा	Pea	2,416	25.58	70,960	17,561	53,399
सिमी	Bean	6,968	21.27	136,199	7,042	129,157
बोडी	Asparagus bean	9,951	22.11	225,408	52,974	172,434
बकुला	Broad bean	391	19.47	7,758	1,959	5,799
भटमासकोसा	Soya bean	19	30.00	559	65	493
अन्य कोसे तरकारी	Other Leguminosae	487	23.37	12,544	2,607	9,936

Table 5.9.6: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, Western Tarai<<<

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
रायोको साग	Broad leaf mustard	2,389	17.35	47,694	7,120	40,574
चम्सुरको साग	Ground cress	306	20.93	6,856	1,527	5,329
पालुङ्को साग	Spinach	924	19.67	23,812	3,699	20,113
तोरीको साग	Mustard leaf	422	17.18	7,660	1,149	6,511
फापरको साग	Buckwheat leaf					
मेथीको साग	Fenugreek leaf	120	20.65	5,635	820	4,816
हरियो लसुन	Garlic Green	104	41.68	3,862	578	3,284
हरियो प्याज	Onion Green	1,441	20.39	39,381	3,946	35,435
फर्सीको मुन्टा	Pumpkin shoot	1,492	15.97	29,898	3,569	26,328
कर्कलो / गाभा	Colocasia leaf	530	13.41	9,543	1,764	7,780
अन्य साग	Other Leafy Vegetable	5,292	32.71	113,741	9,573	104,168
मूला	Radish	7,603	9.94	81,537	17,205	64,332
सलगम / गान्टेमूला	Turnip	43	16.29	702	399	304
गाजर	Carrot	516	19.26	15,780	2,368	13,411
प्याज	Onion	15,592	19.57	307,803	72,221	235,582
लसुन	Garlic	1,853	51.70	104,943	28,764	76,179
अन्य जरे तरकारी	Other Root Vegetable					
तरुल	Yam	745	28.51	16,974	1,106	15,868
पिँडालु	Colocasia/Arum	3,027	18.28	55,162	18,462	36,700
ओल	Elephant foot yam	978	16.83	25,683	5,802	19,881
सखरखण्ड	Sweet potato	3,375	17.11	48,039	10,126	37,914
अन्य कन्दमूल	Other Tuber Vegetable					
कुरिलो	Asparagus					
अन्य तरकारी	Other Vegetable					
<b>Western Tarai</b>		<b>227,185</b>	<b>21.25</b>	<b>3,940,428</b>	<b>754,604</b>	<b>3,185,825</b>

Table 5.9.7: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, MidWest Hills>>>

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
काउली/फूलगोभी	Cauliflower	4,640	23.50	116,711	64,126	52,585
बन्दागोभी/पातगोभी	Cabbage	5,242	18.10	88,105	14,374	73,731
ब्रोकाउली	Broccoli	83	41.56	1,417	52	1,365
ग्याँठगोभी	Knolkhol	5	15.00	81	13	67
गोलभेंडा/टमाटर	Tomato	7,288	20.24	148,512	27,203	121,308
भन्टा/बैगन	Brinjal/Eggplant	1,097	16.28	36,975	891	36,084
करेलो	Bitter gourd	2,127	20.87	60,253	6,593	53,659
भिँडी/रामतोरियाँ	Lady's finger/Okra	540	20.36	26,540	611	25,928
पीरो खुर्सानी	Hot pepper/Chilli	2,183	34.50	89,810	4,779	85,031
अकबरे खुर्सानी	Scotch bonnet chilli	7	100.38	617	4	613
भिँडे/माछा खुर्सानी	Sweet pepper	597	30.43	17,288	2,991	14,296
काँक्रो	Cucumber	8,561	11.16	113,315	3,129	110,186
फर्सी	Pumpkin	11,869	9.43	131,965	1,625	130,340
जुकिनी फर्सी	Squash	62	10.42	625	31	594
लौका	Bottle gourd	1,589	12.55	21,272	384	20,887
घिरौलो/तिरही	Sponge/Ridge gourd	347	12.78	7,946	639	7,306
चिचिन्डो	Snake gourd	1,974	13.81	44,539	892	43,646
बरेलो	Balsam apple	1,214	14.34	31,143	457	30,686
इस्कस	Chayote/Christophine	1,487	11.49	20,302	216	20,086
परवर	Pointed gourd					
कुभिन्डो	Ash gourd	1,730	9.78	27,326	325	27,000
तरबुजो	Watermelon					
अन्य फल तरकारी	Other Cucurbitaceae	20	20.69	448	439	9
मटरकोसा	Pea	848	31.11	33,855	1,562	32,292
सिमी	Bean	3,990	21.92	105,117	6,715	98,402
बोडी	Asparagus bean	2,182	20.44	61,576	3,295	58,281
बकुला	Broad bean	69	15.12	3,281	93	3,188
भटमासकोसा	Soya bean	569	26.76	15,544	615	14,928
अन्य कोसे तरकारी	Other Leguminosae					



Table 5.9.7: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, MidWest Hills<<<<

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
रायोको साग	Broad leaf mustard	4,037	12.84	70,448	2,522	67,926
चम्सुरको साग	Ground cress	113	19.92	5,360	179	5,181
पालुङ्को साग	Spinach	88	16.60	4,578	81	4,496
तोरीको साग	Mustard leaf	3,164	13.42	44,788	2,720	42,068
फापरको साग	Buckwheat leaf	66	15.59	1,131	100	1,030
मेथीको साग	Fenugreek leaf	106	20.76	5,198	330	4,867
हरियो लसुन	Garlic Green	66	25.72	2,388	409	1,979
हरियो प्याज	Onion Green	66	25.66	1,916	530	1,386
फर्सीको मुन्टा	Pumpkin shoot	129	14.00	4,400	113	4,287
कर्कलो / गाभा	Colocasia leaf	119	13.84	1,870	113	1,757
अन्य साग	Other Leafy Vegetable	125	11.84	6,943	398	6,544
मूला	Radish	5,563	12.52	85,982	3,458	82,524
सलगम / गान्टेमूला	Turnip	68	28.07	2,249	114	2,135
गाजर	Carrot	51	23.64	3,559	193	3,366
प्याज	Onion	4,631	25.37	125,800	10,880	114,920
लसुन	Garlic	2,810	33.21	104,858	10,361	94,497
अन्य जरे तरकारी	Other Root Vegetable	81	45.00	4,438	252	4,186
तरुल	Yam	1,389	16.96	36,472	1,530	34,942
पिँडालु	Colocasia/Arum	7,260	16.66	132,328	18,246	114,082
ओल	Elephant foot yam	9	15.00	132	10	122
सखरखण्ड	Sweet potato	675	17.44	12,446	468	11,978
अन्य कन्दमूल	Other Tuber Vegetable	42	30.00	1,267	129	1,138
कुरिलो	Asparagus	16	100.00	1,616	8	1,609
अन्य तरकारी	Other Vegetable					
<b>MidWest Hills</b>		<b>90,992</b>	<b>18.58</b>	<b>1,864,725</b>	<b>195,201</b>	<b>1,669,524</b>

Table 5.9.8: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, MidWest Tarai>>>

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
काउली/फूलगोभी	Cauliflower	8,460	15.31	133,292	32,416	100,876
बन्दागोभी/पातगोभी	Cabbage	7,461	11.02	93,387	16,680	76,707
ब्रोकाउली	Broccoli	73	11.51	866	330	537
ग्याँठगोभी	Knolkhol	339	12.42	5,101	723	4,379
गोलभेंडा/टमाटर	Tomato	6,577	13.54	80,049	13,105	66,944
भन्टा/बैगन	Brinjal/Eggplant	3,333	14.57	50,841	7,092	43,749
करेलो	Bitter gourd	4,901	20.77	99,674	13,559	86,115
भिँडी/रामतोरियाँ	Lady's finger/Okra	6,073	16.56	107,257	13,526	93,731
पीरो खुर्सानी	Hot pepper/Chilli	4,647	30.11	133,599	20,245	113,354
अकबरे खुर्सानी	Scotch bonnet chilli					
भिँडे/माछा खुर्सानी	Sweet pepper					
काँक्रो	Cucumber	4,714	12.56	56,308	7,438	48,870
फर्सी	Pumpkin	7,089	9.12	65,608	7,319	58,290
जुकिनी फर्सी	Squash	12	5.00	60	2	58
लौका	Bottle gourd	10,305	9.93	100,309	10,123	90,186
घिरौलो/तिरही	Sponge/Ridge gourd	620	9.63	5,738	748	4,990
चिचिन्डो	Snake gourd	667	12.52	8,327	959	7,368
बरेलो	Balsam apple	209	10.66	2,423	396	2,027
इस्कस	Chayote/Christophine	242	8.09	1,823	266	1,557
परवर	Pointed gourd	14	39.51	516	60	456
कुभिन्डो	Ash gourd	175	6.69	1,105	155	950
तरबुजो	Watermelon					
अन्य फल तरकारी	Other Cucurbitaceae	71	9.25	659	74	585
मटरकोसा	Pea	760	23.93	17,591	2,894	14,697
सिमी	Bean	3,304	17.66	57,012	7,151	49,860
बोडी	Asparagus bean	4,032	19.20	79,250	10,170	69,080
बकुला	Broad bean	125	10.11	2,037	378	1,659
भटमासकोसा	Soya bean	1	45.00	61	4	57
अन्य कोसे तरकारी	Other Leguminosae	1	20.00	22	11	11

Table 5.9.8: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, MidWest Tarai<<<

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
रायोको साग	Broad leaf mustard	3,301	12.81	40,299	7,624	32,675
चम्सुरको साग	Ground cress	16	13.04	199	75	123
पालुङ्को साग	Spinach	141	16.63	2,410	643	1,768
तोरीको साग	Mustard leaf	383	12.68	5,140	1,275	3,865
फापरको साग	Buckwheat leaf	6	14.00	90	72	18
मेथीको साग	Fenugreek leaf	65	20.06	1,261	323	938
हरियो लसुन	Garlic Green	34	16.80	609	487	122
हरियो प्याज	Onion Green	8	15.06	105	115	-10
फर्सीको मुन्टा	Pumpkin shoot	229	18.00	4,223	693	3,530
कर्कलो / गाभा	Colocasia leaf	364	12.70	4,684	2,222	2,462
अन्य साग	Other Leafy Vegetable	161	36.49	4,581	789	3,792
मूला	Radish	7,159	8.57	64,657	11,181	53,475
सलगम / गान्टेमूला	Turnip	57	15.00	1,663	82	1,582
गाजर	Carrot	114	22.54	2,541	342	2,199
प्याज	Onion	12,113	14.94	163,141	45,081	118,059
लसुन	Garlic	5,894	35.75	180,387	40,483	139,903
अन्य जरे तरकारी	Other Root Vegetable					
तरुल	Yam	54	15.56	1,059	163	896
पिँडालु	Colocasia/Arum	4,405	19.31	80,710	26,569	54,141
ओल	Elephant foot yam	12	50.00	604	149	455
सखरखण्ड	Sweet potato	41	13.21	786	112	673
अन्य कन्दमूल	Other Tuber Vegetable					
कुरिलो	Asparagus					
अन्य तरकारी	Other Vegetable					
<b>MidWest Tarai</b>		<b>108,764</b>	<b>16.48</b>	<b>1,662,063</b>	<b>304,305</b>	<b>1,357,757</b>

Table 5.9.9: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, FarWest Hills>>>>

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
काउली/फूलगोभी	Cauliflower	1,127	22.22	28,511	6,519	21,992
बन्दागोभी/पातगोभी	Cabbage	1,174	17.38	20,941	2,244	18,697
ब्रोकाउली	Broccoli					
ग्याँठगोभी	Knolkhol					
गोलभेंडा/टमाटर	Tomato	5,101	17.88	75,845	12,685	63,160
भन्टा/बैगन	Brinjal/Eggplant	625	14.62	11,208	965	10,243
करेलो	Bitter gourd	186	22.16	4,851	241	4,610
भिँडी/रामतोरियाँ	Lady's finger/Okra	158	17.43	3,784	325	3,459
पीरो खुर्सानी	Hot pepper/Chilli	553	33.56	18,673	2,146	16,527
अकबरे खुर्सानी	Scotch bonnet chilli	3	35.00	112	5	107
भिँडे/माछ्रा खुर्सानी	Sweet pepper	81	23.45	2,046	186	1,859
काँक्रो	Cucumber	1,154	13.67	17,310	619	16,691
फर्सी	Pumpkin	2,994	9.47	29,613	660	28,953
जुकिनी फर्सी	Squash					
लौका	Bottle gourd	453	11.83	6,263	140	6,123
घिरौलो/तिरही	Sponge/Ridge gourd	281	11.80	3,470	101	3,369
चिचिन्डो	Snake gourd	307	13.17	4,685	184	4,501
बरेलो	Balsam apple	303	16.97	5,456	162	5,294
इस्कस	Chayote/Christophine					
परवर	Pointed gourd	2	12.00	29	6	23
कुभिन्डो	Ash gourd	149	9.82	1,496	40	1,457
तरबुजो	Watermelon					
अन्य फल तरकारी	Other Cucurbitaceae	74	22.39	1,628	76	1,552
मटरकोसा	Pea	21	24.72	599	63	536
सिमी	Bean	245	21.14	5,603	530	5,073
बोडी	Asparagus bean	5	18.16	81	7	74
बकुला	Broad bean					
भटमासकोसा	Soya bean					
अन्य कोसे तरकारी	Other Leguminosae	2	15.79	40	4	36

Table 5.9.9: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, FarWest Hills<<<

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
रायोको साग	Broad leaf mustard	477	19.39	10,615	1,224	9,391
चम्सुरको साग	Ground cress	6	29.28	221	52	169
पालुङ्को साग	Spinach	234	23.57	6,449	965	5,484
तोरीको साग	Mustard leaf	18	18.34	347	106	241
फापरको साग	Buckwheat leaf					
मेथीको साग	Fenugreek leaf	11	29.61	689	75	614
हरियो लसुन	Garlic Green	1	21.00	28	17	11
हरियो प्याज	Onion Green	12	17.40	198	44	154
फर्सीको मुन्टा	Pumpkin shoot	11	14.10	164	6	159
कर्कलो/गाभा	Colocasia leaf	1	10.00	10	4	6
अन्य साग	Other Leafy Vegetable	7	65.00	529	91	438
मूला	Radish	2,042	9.26	20,343	2,788	17,555
सलगम/गान्टेमूला	Turnip	104	10.19	1,021	76	945
गाजर	Carrot	6	21.38	210	40	170
प्याज	Onion	2,560	19.74	52,533	15,691	36,841
लसुन	Garlic	732	37.48	27,595	5,723	21,872
अन्य जरे तरकारी	Other Root Vegetable	6	45.00	383	64	319
तरुल	Yam					
पिँडालु	Colocasia/Arum	169	12.87	2,564	461	2,102
ओल	Elephant foot yam					
सखरखण्ड	Sweet potato	2	20.00	39	5	34
अन्य कन्दमूल	Other Tuber Vegetable					
कुरिलो	Asparagus					
अन्य तरकारी	Other Vegetable	2	20.00	40	1	39
<b>FarWest Hills</b>		<b>21,402</b>	<b>19.05</b>	<b>366,221</b>	<b>55,341</b>	<b>310,880</b>

Table 5.9.10: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, FarWest Tarai>>>

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
काउली/फूलगोभी	Cauliflower	3,255	17.64	63,879	16,787	47,092
बन्दागोभी/पातगोभी	Cabbage	3,651	11.59	48,502	10,384	38,118
ब्रोकाउली	Broccoli					
ग्याँठगोभी	Knolkhol	13	11.28	438	85	352
गोलभेंडा/टमाटर	Tomato	4,617	15.42	60,039	7,829	52,210
भन्टा/बैगन	Brinjal/Eggplant	1,250	13.15	18,835	2,058	16,777
करेलो	Bitter gourd	1,275	20.33	31,480	6,098	25,382
भिँडी/रामतोरियाँ	Lady's finger/Okra	1,405	16.29	26,305	5,810	20,495
पीरो खुर्सानी	Hot pepper/Chilli	755	30.54	28,770	3,725	25,044
अकबरे खुर्सानी	Scotch bonnet chilli					
भिँडे/माछा खुर्सानी	Sweet pepper	88	20.62	2,664	435	2,228
काँक्रो	Cucumber	2,336	14.00	39,724	6,975	32,749
फर्सी	Pumpkin	2,292	10.86	28,693	2,941	25,752
जुकिनी फर्सी	Squash	76	10.98	1,175	52	1,123
लौका	Bottle gourd	4,378	10.20	50,633	8,524	42,109
घिरौलो/तिरही	Sponge/Ridge gourd	939	9.85	13,505	917	12,588
चिचिन्डो	Snake gourd	434	13.08	7,745	1,095	6,650
बरेलो	Balsam apple	22	12.39	344	16	328
इस्कस	Chayote/Christophine					
परवर	Pointed gourd					
कुभिन्डो	Ash gourd	511	6.13	4,265	188	4,077
तरबुजो	Watermelon					
अन्य फल तरकारी	Other Cucurbitaceae	256	13.31	3,863	524	3,339
मटरकोसा	Pea	115	21.63	2,823	1,090	1,733
सिमी	Bean	716	15.84	13,159	1,199	11,960
बोडी	Asparagus bean	1,664	16.81	33,991	4,387	29,605
बकुला	Broad bean	253	14.38	4,421	2,090	2,331
भटमासकोसा	Soya bean	20	20.00	668	53	615
अन्य कोसे तरकारी	Other Leguminosae	4	15.00	58	30	28

Table 5.9.10: Total Production, Mean Price, Total Output, Input and Value Added by Vegetable Crops, FarWest Tarai<<<

Name of Vegetable		Total Production (mt)	Mean Price (Rs/kg)	Total Output (Thousand Rs)	Total Input (Thousand Rs)	Value Added (Thousand Rs)
Nepali	English					
रायोको साग	Broad leaf mustard	1,900	8.83	25,170	5,016	20,154
चम्सुरको साग	Ground cress	85	14.18	1,928	280	1,648
पालुङ्को साग	Spinach	425	13.59	8,198	3,314	4,884
तोरीको साग	Mustard leaf	281	10.24	3,966	727	3,240
फापरको साग	Buckwheat leaf					
मेथीको साग	Fenugreek leaf	94	14.53	2,539	589	1,950
हरियो लसुन	Garlic Green	296	35.49	10,360	6,080	4,280
हरियो प्याज	Onion Green	379	18.97	7,818	4,351	3,467
फर्सीको मुन्टा	Pumpkin shoot	2	15.00	29	12	17
कर्कलो / गाभा	Colocasia leaf	4	15.00	66	19	46
अन्य साग	Other Leafy Vegetable	222	14.92	6,601	778	5,823
मूला	Radish	4,146	7.60	39,411	4,594	34,817
सलगम / गान्टेमूला	Turnip	42	16.31	899	468	431
गाजर	Carrot	92	14.43	2,167	145	2,023
प्याज	Onion	3,337	15.67	55,876	12,364	43,513
लसुन	Garlic	1,633	26.30	47,233	8,794	38,440
अन्य जरे तरकारी	Other Root Vegetable					
तरुल	Yam	199	13.24	2,811	160	2,651
पिँडालु	Colocasia/Arum	2,895	16.23	45,856	7,393	38,462
ओल	Elephant foot yam					
सखरखण्ड	Sweet potato	37	17.89	695	34	661
अन्य कन्दमूल	Other Tuber Vegetable					
कुरिलो	Asparagus					
अन्य तरकारी	Other Vegetable					
<b>FarWest Tarai</b>		<b>46,395</b>	<b>15.13</b>	<b>747,602</b>	<b>138,411</b>	<b>609,191</b>

Table 5.10: Total Production, Consumption and Sales of Vegetable Crops and their Share by Geographic Region

Geographic Region	Total Production (mt)	Household Consumption (mt)	Sales (mt)	On Total Vegetable Items		On Total Vegetable Quantity	
				Household Consumption (%)	Sales (%)	Household Consumption (%)	Sales (%)
<b>Belt</b>							
Mountains	121,565	102,738	18,828	92.6	7.4	84.5	15.5
Hills	1,261,041	494,138	766,903	82.3	17.8	39.2	60.8
Tarai	1,437,921	503,834	934,087	83.7	16.3	35.0	65.0
<b>Region</b>							
Eastern	894,877	361,102	533,775	77.4	22.7	40.4	59.6
Central	1,191,119	349,950	841,169	80.7	19.3	29.4	70.6
Western	434,210	179,875	254,335	87.0	13.1	41.4	58.6
Mid-western	199,756	138,904	60,853	91.5	8.5	69.5	30.5
Far-western	100,566	70,880	29,686	90.1	9.9	70.5	29.5
<b>Survey Domain</b>							
Mountains	121,565	102,738	18,828	92.6	7.4	84.5	15.5
Eastern Hills	448,348	135,338	313,010	70.1	29.9	30.2	69.8
Eastern Tarai	396,877	185,706	211,172	76.3	23.7	46.8	53.2
Central Hills	493,274	177,336	315,938	75.1	24.9	36.0	64.0
Central Tarai	658,700	136,700	522,000	83.1	16.9	20.8	79.2
Western Hills	207,025	99,642	107,383	88.4	11.6	48.1	51.9
Western Tarai	227,185	80,232	146,952	83.8	16.3	35.3	64.7
MidWest Hills	90,992	67,689	23,303	92.4	7.6	74.4	25.6
MidWest Tarai	108,764	71,215	37,550	90.6	9.4	65.5	34.5
FarWest Hills	21,402	14,133	7,269	91.7	8.3	66.0	34.0
FarWest Tarai	46,395	29,981	16,414	91.3	8.7	64.6	35.4
<b>Nepal</b>	<b>2,820,527</b>	<b>1,100,710</b>	<b>1,719,818</b>	<b>84.0</b>	<b>16.0</b>	<b>39.0</b>	<b>61.0</b>

Table 5.10 presents total production, consumption and sales of vegetable crops and their share by geographic region. The table presents the summary statistics on total production, its use as household consumption and sale and their shares in terms of number of vegetable items and in terms of total quantity of the vegetable (in percentage). The description on the distribution of the production has already been done in the relevant section. Out of 2,820,527 million metric ton production, 1,100,710 million metric tons of vegetables were consumed by the vegetable growers themselves. It is 39 percent of the total production. However, the share of the household consumption in terms of number of cases, 84 percent of the vegetable crops were found to be reported as consumed by the households. As high as 93 percent of vegetable items in Mountains were reported as household consumption where as 70 of the vegetable items were grown for household consumption in Eastern Hills domain. This shows that vegetable production in Nepal is mainly for household consumption though the volume of the production for sale is higher (61 percent).



Table 5.11: Total Area and Total and per Hectare Input, Output and Value Added by Geographic Region

Geographic Region	Total Area (ha)	Total Input (000 Rs)	Input/ha (Rs)	Total Output (000 Rs)	Output/ha (Rs)	Value Added (000 Rs)	Value Added/ha (Rs)
<b>Belt</b>							
Mountains	11,564	674,587	58,337	2,349,584	203,187	1,674,997	144,850
Hills	103,555	4,471,504	43,180	21,792,255	210,441	17,320,752	167,261
Tarai	117,176	3,922,466	33,475	21,003,921	179,251	17,081,455	145,776
<b>Region</b>							
Eastern	74,778	2,675,014	35,773	14,104,546	188,619	11,429,532	152,846
Central	88,987	3,804,553	42,754	17,856,071	200,659	14,051,519	157,905
Western	39,668	1,534,099	38,674	7,914,292	199,515	6,380,193	160,841
Mid-western	18,084	499,507	27,621	3,526,788	195,021	3,027,281	167,399
Far-western	10,778	555,385	51,531	1,744,064	161,822	1,188,679	110,291
<b>Survey Domain</b>							
Mountains	11,564	674,587	58,337	2,349,584	203,187	1,674,997	144,850
Eastern Hills	31,761	1,434,404	45,163	7,380,361	232,374	5,945,957	187,211
Eastern Tarai	38,823	1,003,017	25,836	5,704,720	146,943	4,701,703	121,107
Central Hills	41,661	2,007,062	48,176	8,207,084	196,998	6,200,021	148,821
Central Tarai	44,355	1,722,129	38,826	8,949,108	201,761	7,226,980	162,935
Western Hills	21,654	779,495	35,997	3,973,864	183,514	3,194,368	147,517
Western Tarai	18,013	754,604	41,891	3,940,428	218,750	3,185,825	176,859
MidWest Hills	6,584	195,201	29,648	1,864,725	283,226	1,669,524	253,577
MidWest Tarai	11,500	304,305	26,461	1,662,063	144,523	1,357,757	118,063
FarWest Hills	1,895	55,341	29,198	366,221	193,219	310,880	164,021
FarWest Tarai	4,485	138,411	30,862	747,602	166,698	609,191	135,835
<b>Nepal</b>	<b>232,295</b>	<b>9,068,557</b>	<b>39,039</b>	<b>45,145,760</b>	<b>194,347</b>	<b>36,077,204</b>	<b>155,308</b>

Table 5.11 presents the distribution of the total area and total and per hectare input, total and per hectare output and total and per hectare value added by ecological belts, development regions and survey domains. The total area under vegetable crops was 232,295 hectares. The total input, output and value added for vegetable crops was 9, 45 and 36 billion rupees respectively. The per hectare input, output and value added for vegetable crops were 39,039 rupees, 194,347 rupees and 155,308 rupees respectively.

The total and per hectare value added is the highest in the Hills (Rs. 17.3 billion) and (Rs. 167,261). The highest per hectare value added is observed in MidWest Hills (Rs. 253,577) and the lowest value added was in FarWest region (Rs. 110,291).



## **Chapter VI**

### **Access to Agricultural Services**

This chapter presents tables on loan taken for vegetable farming, sources of loan taken, availability of improved seeds and use and type of pesticides, source of technical assistance for vegetable farming, rating of technical assistance received for vegetable farming, market facility and market centre for selling vegetable, mode of transport and mean market time required for selling vegetables, and involvement of female in selling, support to household income and sufficiency for household consumption from vegetable farming.

#### **6.1 Loan for Vegetable Farming**

Table 6.1 presents the loan borrowed by vegetable growers from different sources. Around 5 percent of the vegetable holders took loan for vegetable farming. The highest proportion of loan borrowing was observed in Central region and Tarai belt. The survey results show that there is no tendency to take loan for the vegetable farming.

Table 6.1: Loan Taken for Vegetable Farming by Geographic Region

Geographic Region	Loan Taken for Vegetable Farming		Percent
	Yes	No	Total
<b>Belt</b>			
Mountains	1.4	98.6	100
Hills	3.3	96.7	100
Tarai	6.2	93.8	100
<b>Region</b>			
Eastern	5.7	94.3	100
Central	6.6	93.4	100
Western	3.7	96.3	100
Mid-western	1.2	98.9	100
Far-western	0.9	99.1	100
<b>Survey Domain</b>			
Mountains	1.4	98.6	100
Eastern Hills	3.3	96.7	100
Eastern Tarai	7.5	92.5	100
Central Hills	5.5	94.6	100
Central Tarai	7.9	92.1	100
Western Hills	2.7	97.3	100
Western Tarai	5.7	94.3	100
MidWest Hills	0.6	99.4	100
MidWest Tarai	1.6	98.5	100
FarWest Hills	2.0	98.0	100
FarWest Tarai	1.0	99.0	100
<b>Nepal</b>	<b>4.6</b>	<b>95.4</b>	<b>100</b>

Table 6.2: Sources of Loan Taken for Vegetable Farming by Geographic Region

Survey Region	Sources of Loan Taken for Vegetable Farming (Percent)							Total
	Agri. Dev. Bank	Co-operatives	Other Fin. Institution	Farmers' Group	Women's Group	Relatives/Friends	Other	
<b>Belt</b>								
Mountains	20.6	44.5	8.4	12.2	14.3	0.0	0.0	100
Hills	29.7	29.9	4.0	8.4	15.9	6.9	5.2	100
Tarai	22.1	7.4	7.1	6.4	3.5	35.6	17.9	100
<b>Region</b>								
Eastern	38.2	13.6	3.3	0.0	3.5	29.2	12.2	100
Central	18.0	16.1	8.2	4.7	9.5	30.4	13.1	100
Western	11.4	15.3	5.6	23.5	10.9	12.4	20.8	100
Mid West	43.3	3.1	12.2	29.8	3.2	8.5	0.0	100
Far West	26.2	35.1	0.0	7.2	0.0	22.1	9.4	100
<b>Survey Domain</b>								
Mountains	20.6	44.5	8.4	12.2	14.3	0.0	0.0	100
Eastern Hills	65.6	18.6	0.0	0.0	11.4	4.5	0.0	100
Eastern Tarai	33.1	11.1	4.0	0.0	2.1	34.8	14.9	100
Central Hills	27.9	32.9	4.1	3.0	14.8	8.0	9.2	100
Central Tarai	13.4	6.4	10.0	4.7	6.1	43.5	15.9	100
Western Hills	16.2	31.9	7.1	22.0	22.8	0.0	0.0	100
Western Tarai	7.0	0.0	4.2	24.9	0.0	23.9	40.0	100
MidWest Hills	14.2	14.2	0.0	19.1	14.2	38.2	0.0	100
MidWest Tarai	51.5	0.0	15.7	32.8	0.0	0.0	0.0	100
FarWest Hills	0.0	36.5	0.0	11.8	0.0	36.4	15.4	100
FarWest Tarai	67.1	32.9	0.0	0.0	0.0	0.0	0.0	100
<b>Nepal</b>	<b>24.3</b>	<b>15.1</b>	<b>6.2</b>	<b>7.1</b>	<b>7.4</b>	<b>26.2</b>	<b>13.7</b>	<b>100</b>

Table 6.2 presents the sources of loan taken for those who took loans for vegetable farming. About 26 percent of the borrowers took loan from friends and relatives whereas 24 percent of the holders took loan from Agricultural Development Bank. The share of banks and financial institutions was 45 percent whereas informal sectors contributed the remaining 55 percent to lend the loan to vegetable farmers.

## 6.2 Agricultural Services

Table 6.3 reveals that the improved seed/seedling of the vegetable crops was easily available for 59 percent of the vegetable farmers. The lowest availability was observed in FarWest Hills which was about 28 percent in sharp contrast to FarWest Tarai where the easy availability rate of the seeds/seedlings was estimated at 79 percent.

Almost half of the vegetable farmers (48 percent) used pesticides (insecticides or fungicides) in their crops. The use of pesticides was observed most prominent (72 percent) in Eastern and Central Tarai. The Mountains saw the lowest use (6 percent) of pesticides in the vegetable.

Out of those vegetable farmers who used pesticides, 8 percent of the holders were found to use organic or local pesticides and 92 percent used chemical pesticides. This shows that chemical pesticides are most practiced in vegetable farming. Organic pesticides were used more (31 percent) in FarWest Hills compared to other parts of the country.

Table 6.3: Availability of Improved Seeds and Use and Type of Pesticides by Geographic Region

Survey Region	Easy Availability of Improved Seeds			Use of Pesticides			Types of Pesticides		
	Yes	No	Total	Yes	No	Total	Organic	Chemical	Total
	<i>Percent</i>								
<b>Belt</b>									
Mountains	43.4	56.6	100	6.1	93.9	100	8.5	91.5	100
Hills	48.6	51.4	100	35.8	64.2	100	17.0	83.0	100
Tarai	69.3	30.7	100	65.5	34.5	100	4.0	96.0	100
<b>Region</b>									
Eastern	63.3	36.8	100	53.0	47.0	100	5.1	94.9	100
Central	56.5	43.6	100	59.7	40.3	100	7.8	92.3	100
Western	56.1	43.9	100	39.0	61.0	100	11.3	88.7	100
Mid West	54.9	45.1	100	44.5	55.5	100	3.3	96.7	100
Far West	62.7	37.3	100	18.4	81.6	100	32.3	67.7	100
<b>Survey Domain</b>									
Mountains	43.4	56.6	100	6.1	93.9	100	8.5	91.5	100
Eastern Hills	40.5	59.5	100	30.9	69.1	100	4.2	95.8	100
Eastern Tarai	78.2	21.8	100	71.5	28.6	100	5.2	94.8	100
Central Hills	58.6	41.4	100	53.5	46.5	100	17.8	82.2	100
Central Tarai	61.8	38.2	100	71.5	28.5	100	2.4	97.7	100
Western Hills	51.2	48.8	100	30.3	69.8	100	20.8	79.2	100
Western Tarai	65.7	34.3	100	56.2	43.8	100	1.1	98.9	100
MidWest Hills	39.2	60.8	100	20.5	79.5	100	10.1	89.9	100
MidWest Tarai	66.4	33.7	100	62.0	38.0	100	1.7	98.3	100
FarWest Hills	27.7	72.4	100	23.9	76.1	100	38.0	62.0	100
FarWest Tarai	79.0	21.0	100	32.1	67.9	100	32.0	68.0	100
<b>Nepal</b>	<b>58.5</b>	<b>41.5</b>	<b>100</b>	<b>48.0</b>	<b>52.0</b>	<b>100</b>	<b>8.0</b>	<b>92.0</b>	<b>100</b>

Table 6.4: Source of Technical Assistance for Vegetable Farming by Geographic Region

Survey Region	Source of Technical Assistance for Vegetable Farming				Percent
	From JT/JTA	From NG Agri. Technician	Other	Help not Received	Total
<b>Belt</b>					
Mountains	4.5	14.5	2.3	78.7	100
Hills	6.4	6.8	13.3	73.5	100
Tarai	7.3	5.2	16.6	70.9	100
<b>Region</b>					
Eastern	4.3	4.8	13.2	77.7	100
Central	4.1	5.6	22.8	67.5	100
Western	10.0	8.0	13.6	68.4	100
Mid West	8.9	4.4	1.7	85.1	100
Far West	11.7	15.9	2.1	70.4	100
<b>Survey Domain</b>					
Mountains	4.5	14.5	2.3	78.7	100
Eastern Hills	4.6	8.5	1.9	85.0	100
Eastern Tarai	4.6	3.0	20.4	72.0	100
Central Hills	3.5	4.3	23.9	68.3	100
Central Tarai	4.8	6.6	24.9	63.7	100
Western Hills	8.9	10.1	15.5	65.6	100
Western Tarai	12.2	4.0	9.8	74.0	100
MidWest Hills	6.7	3.9	3.3	86.2	100
MidWest Tarai	10.4	4.7	0.5	84.4	100
FarWest Hills	10.9	2.4	1.1	85.6	100
FarWest Tarai	16.4	12.1	3.2	68.3	100
<b>Nepal</b>	<b>6.7</b>	<b>6.7</b>	<b>13.9</b>	<b>72.7</b>	<b>100</b>

Only 27 percent of the vegetable holders received technical assistance for vegetable farming. Half of the holder got such technical assistance from agriculture technicians and the remaining half (14 percent) from the other sources. Each of the government agricultural technician (Junior Technician, JT and Junior Technical Assistant, JTA) and non-governmental agricultural technician contributed to 7 percent of the vegetable holders' assistance. In Mid and Far Western part of country, the government agricultural technicians' service was more prevalent compared to the other parts of the country as evidenced by the survey results.

Table 6.5: Rating of Technical Assistance Received for Vegetable Farming by Geographic Region

Survey Region	Rating of Technical Assistance for Vegetable Farming				Percent
	Very good	Good	General	Unsatisfied	Total
<b>Belt</b>					
Mountains	5.6	13.0	76.8	4.7	100
Hills	1.2	25.2	64.9	8.8	100
Tarai	3.3	31.4	53.0	12.2	100
<b>Region</b>					
Eastern	1.5	28.6	53.4	16.5	100
Central	6.4	26.1	52.1	15.4	100
Western	1.7	24.4	69.1	4.8	100
Mid West	0.9	31.5	62.6	5.0	100
Far West	2.3	25.0	65.4	7.4	100
<b>Survey Domain</b>					
Mountains	5.6	13.0	76.8	4.7	100
Eastern Hills	0.9	42.9	47.0	9.2	100
Eastern Tarai	0.0	17.0	60.6	22.5	100
Central Hills	0.0	30.2	50.0	19.8	100
Central Tarai	8.7	22.8	53.8	14.7	100
Western Hills	1.3	18.8	75.2	4.8	100
Western Tarai	2.8	37.4	55.0	4.9	100
MidWest Hills	2.8	20.5	71.8	4.9	100
MidWest Tarai	0.0	37.1	57.9	5.1	100
FarWest Hills	2.4	20.5	64.0	13.1	100
FarWest Tarai	0.9	55.1	33.4	10.6	100
<b>Nepal</b>	<b>2.8</b>	<b>26.5</b>	<b>60.9</b>	<b>9.9</b>	<b>100</b>

The survey collected the information about the rating of the agricultural technical services provided by governmental and non-governmental agricultural technicians in vegetable farming from those holders who received the service. Around 3 percent of the holders rated the service as "very good", 27 percent of them rated it as "good", 61 percent of them rated as "general" and 10 percent of the vegetable holders were unsatisfied with the service of the agricultural technicians. Most of the un-satisfaction cases were observed in Tarai, especially in eastern part of the country.



### 6.3 Agricultural Produce Marketing

The rating of the market facility was made by the vegetable holders who reported their purpose of vegetable farming as commercial. Only those holders who sell more than 50 percent of their produce were assumed to be commercial vegetable farmers. Almost three-quarter of those vegetable holders were satisfied with the market facility that they had. About 18 percent of those termed the vegetable market as "good" and 58 percent of them rated the market facility as "general". The holders of the Hills were much happy with the available market than that of other region.

Almost 60 percent of the vegetable holders sold their vegetable produce to the local market. One quarter of the holders sold their produce to local collection centre and ultimately wholesale market whereas 15 percent holders could sell their products at home. The distribution of the market centre is uneven in different geographic regions.

Table 6.6: Market Facility and Market Centre for Selling Vegetable by Geographic Region

Survey Region	Market Facility				Market Centre					<i>Percent</i>
	Good	General	Lack of Market	Total	At home	Local market	Local collection centre	Wholesale Market	Total	
<b>Belt</b>										
Mountains	11.5	51.8	36.7	100	4.3	93.2	2.5	0.0	100	
Hills	29.5	59.3	11.3	100	17.3	39.4	28.9	14.4	100	
Tarai	11.5	57.5	31.0	100	13.9	69.3	1.5	15.3	100	
<b>Region</b>										
Eastern	15.6	60.3	24.1	100	13.5	65.8	12.8	8.0	100	
Central	17.2	54.3	28.5	100	15.9	56.4	8.6	19.1	100	
Western	29.2	57.7	13.1	100	17.5	44.8	13.5	24.3	100	
Mid West	17.3	60.0	22.7	100	13.6	56.0	14.7	15.7	100	
Far West	9.9	74.5	15.6	100	12.1	80.5	0.0	7.5	100	
<b>Survey Domain</b>										
Mountains	11.5	51.8	36.7	100	4.3	93.2	2.5	0.0	100	
Eastern Hills	36.8	51.6	11.6	100	8.9	38.9	49.8	2.5	100	
Eastern Tarai	8.5	63.5	28.1	100	15.2	73.7	0.9	10.2	100	
Central Hills	29.0	59.3	11.7	100	19.7	38.7	18.3	23.2	100	
Central Tarai	9.7	52.1	38.1	100	13.8	67.0	2.2	16.9	100	
Western Hills	24.5	72.8	2.7	100	27.5	33.7	22.0	16.8	100	
Western Tarai	35.1	39.0	26.0	100	5.0	58.5	2.9	33.5	100	
MidWest Hills	21.7	52.5	25.8	100	8.1	51.5	35.8	4.7	100	
MidWest Tarai	14.3	65.3	20.5	100	17.5	59.1	0.0	23.4	100	
FarWest Hills	0.0	70.5	29.5	100	21.8	78.2	0.0	0.0	100	
FarWest Tarai	18.7	67.1	14.2	100	11.5	74.4	0.0	14.1	100	
<b>Nepal</b>	<b>17.7</b>	<b>58.0</b>	<b>24.3</b>	<b>100</b>	<b>14.9</b>	<b>59.6</b>	<b>11.0</b>	<b>14.6</b>	<b>100</b>	

Table 6.7: Mode of Transport and Mean Market Time required for Selling Vegetables by Geographic Region

Survey Region	Mode of Transport to Market Facility						Percent	Minutes
	On Foot	Cycle/ Rickshaw	Motorbike/ Tempo	Car/Bus	Mixed (on Foot/Cart)	Near the house	Total	Mean Time to Market Centre (one way)
<b>Belt</b>								
Mountains	92.3	7.7	0.0	0.0	0.0	0.0	100	85
Hills	74.3	1.2	0.0	13.3	11.0	0.3	100	73
Tarai	23.5	54.8	2.2	5.4	13.2	0.8	100	59
<b>Region</b>								
Eastern	52.1	40.2	0.8	2.5	4.5	0.0	100	73
Central	32.8	36.1	0.9	9.5	19.2	1.6	100	53
Western	41.1	25.5	0.0	26.2	7.2	0.0	100	59
Mid West	40.5	14.0	13.8	5.8	26.0	0.0	100	83
Far West	40.9	37.0	0.0	0.0	22.1	0.0	100	64
<b>Survey Domain</b>								
Mountains	92.3	7.7	0.0	0.0	0.0	0.0	100	85
Eastern Hills	92.1	0.0	0.0	0.6	7.4	0.0	100	107
Eastern Tarai	36.3	55.7	1.1	3.2	3.7	0.0	100	60
Central Hills	66.5	0.8	0.0	18.0	14.0	0.7	100	49
Central Tarai	9.8	58.9	1.5	4.6	23.1	2.2	100	55
Western Hills	56.5	4.1	0.0	31.6	7.9	0.0	100	51
Western Tarai	26.6	45.8	0.0	21.1	6.5	0.0	100	66
MidWest Hills	87.4	2.9	0.0	3.6	6.1	0.0	100	110
MidWest Tarai	3.9	22.6	24.6	7.5	41.5	0.0	100	62
FarWest Hills	53.8	0.0	0.0	0.0	46.2	0.0	100	91
FarWest Tarai	10.2	69.5	0.0	0.0	20.3	0.0	100	53
<b>Nepal</b>	<b>42.5</b>	<b>35.5</b>	<b>1.4</b>	<b>7.9</b>	<b>12.1</b>	<b>0.6</b>	<b>100</b>	<b>64</b>

Most of the vegetable holders (43 percent) travelled to the market to sell their produce on foot. Second important mode of transport was cycle or rickshaw (36 percent). The mean time taken to reach the market was estimated at 64 minutes. This duration was recorded the highest (85 minutes) in Mountains and the lowest in Tarai (59 minutes). In MidWest Hills, the one way time taken to reach the market was 110 minutes whereas this duration was 49 minutes in Central Hills.

Table 6.8: Involvement of Female in Selling Vegetables by Geographic Region

Survey Region	Involvement of Female in Selling Vegetables		
	Male	Female	Total
<i>Percent</i>			
<b>Belt</b>			
Mountains	57.3	42.7	100
Hills	54.1	45.9	100
Tarai	68.2	31.8	100
<b>Region</b>			
Eastern	50.5	49.5	100
Central	83.5	16.6	100
Western	45.7	54.3	100
Mid West	40.4	59.6	100
Far West	73.3	26.7	100
<b>Survey Domain</b>			
Mountains	57.3	42.7	100
Eastern Hills	54.3	45.7	100
Eastern Tarai	50.3	49.7	100
Central Hills	68.0	32.0	100
Central Tarai	93.6	6.4	100
Western Hills	21.0	79.1	100
Western Tarai	76.5	23.5	100
MidWest Hills	36.3	63.7	100
MidWest Tarai	43.3	56.7	100
FarWest Hills	95.7	4.3	100
FarWest Tarai	51.7	48.3	100
<b>Nepal</b>	<b>63.1</b>	<b>36.9</b>	<b>100</b>

About 37 percent of the female members of the vegetable holders were found to be involved in selling their produce. This is higher than the proportion of female as a principal vegetable holder which was estimated at 17 percent. This kind of women empowerment could be observed in Central and FarWest regions.

## 6.4 Sufficiency of Vegetable Products

There are 12 percent households whose expenditure could be maintained by vegetable income for the whole year. Three quarter of the households maintained their expenditure by the vegetable farming for less than or equal to six months.

For the holdings with commercial farming, on an average 5 months' household expenditure could be maintained by the income from vegetables alone. The contribution of the vegetable income to the household expenditure is higher in Western development region.

Table 6.9: Support to Household Income from Vegetable Farming by Geographic Region

Survey Region	No. of Months Maintained by Vegetable Income				Percent	Months
	0-3 Months	4-6 Months	7-11 Months	12 Months	Total	Mean Number of Months
<b>Belt</b>						
Mountains	55.2	20.0	20.5	4.3	100	4.4
Hills	21.9	35.7	20.9	21.5	100	6.8
Tarai	47.7	38.5	7.2	6.7	100	4.4
<b>Region</b>						
Eastern	51.6	29.6	7.9	10.9	100	4.6
Central	33.4	43.4	11.4	11.8	100	5.4
Western	14.2	39.7	26.1	20.0	100	7.2
Mid West	31.1	42.6	24.5	1.9	100	5.1
Far West	43.3	37.0	11.7	8.1	100	4.9
<b>Survey Domain</b>						
Mountains	55.2	20.0	20.5	4.3	100	4.4
Eastern Hills	15.9	25.3	20.4	38.4	100	8.1
Eastern Tarai	65.0	30.8	2.4	1.8	100	3.3
Central Hills	29.0	36.5	17.9	16.6	100	6.1
Central Tarai	34.6	49.0	7.5	8.9	100	4.9
Western Hills	12.3	41.7	31.5	14.6	100	7.2
Western Tarai	16.6	37.3	19.4	26.8	100	7.3
MidWest Hills	28.9	53.8	17.3	0.0	100	5.0
MidWest Tarai	32.6	34.8	29.5	3.2	100	5.2
FarWest Hills	16.4	60.4	13.5	9.7	100	5.7
FarWest Tarai	36.1	38.6	15.1	10.2	100	5.3
<b>Nepal</b>	<b>39.0</b>	<b>37.1</b>	<b>12.3</b>	<b>11.8</b>	<b>100</b>	<b>5.2</b>

Table 6.10: Sufficiency of Vegetable for Household Consumption by Geographic Region

Survey Region	Sufficiency of Vegetable for Household Consumption		
	Yes	No	Total
<i>Percent</i>			
<b>Belt</b>			
Mountains	52.9	47.1	100
Hills	56.5	43.6	100
Tarai	41.5	58.5	100
<b>Region</b>			
Eastern	54.4	45.6	100
Central	49.1	50.9	100
Western	47.0	53.0	100
Mid West	54.4	45.6	100
Far West	34.9	65.1	100
<b>Survey Domain</b>			
Mountains	52.9	47.1	100
Eastern Hills	74.0	26.0	100
Eastern Tarai	44.5	55.5	100
Central Hills	60.6	39.4	100
Central Tarai	39.2	60.8	100
Western Hills	57.6	42.4	100
Western Tarai	25.0	75.0	100
MidWest Hills	45.2	54.8	100
MidWest Tarai	61.2	38.8	100
FarWest Hills	19.6	80.4	100
FarWest Tarai	32.6	67.4	100
<b>Nepal</b>	<b>49.0</b>	<b>51.0</b>	<b>100</b>

The question on the sufficiency of vegetable crops for household consumption was asked to the vegetable holders who reported their vegetable farming for household consumption only. Almost half (49 percent) of the holdings produced vegetable crops sufficient for their own consumption. This sufficiency was observed most (74 percent) in Eastern Hills and the holders from the FarWest Hills (20 percent) reported their produce less sufficient for household consumption.



## Annex I

### Concepts and Definitions

#### Glossary of sampling and related terms used in this survey

**Cluster sampling:** Sampling in which next-to-last stage involves a geographically defined unit such as a census enumeration area (EA).

**Cluster size:** Average number of sampling units, persons or households, in cluster.

**Complex sample design:** Refers to use of multiple stages, clustering and stratification in household survey samples, as opposed to simple random sampling.

**Domain:** Geographical unit for which separate estimates are to be provided.

**Farm input:** All the current expenditure incurred in farming vegetable crops from land preparation to selling produce to the markets excluding the cost of land rented/contracted-in, hired labour and unpaid family worker.

**Farm output:** The value of the vegetable consumed by the households, the price obtained from selling the vegetable crops seeds/seedlings, byproducts of vegetables and other current income.

**Implicit stratification:** Means of stratifying through geographical sorting of sample frame, coupled with systematic sampling with probability proportionate to size.

**Irrigation:** Irrigation refers to purposively providing land with water, other than rain, for improving crop production.

**Measure of size:** In multistage sampling, a count or estimate of the size (for example, number of persons) of each unit at a given stage.

**Non-sampling error:** Bias in survey estimate arising from errors in design and implementation; refers to accuracy or validity of an estimate as opposed to its reliability or precision.

**Parcel:** A parcel in agricultural holdings is any piece of land entirely surrounded by other land, water, road, forest, of other holdings, etc. not forming part of the holdings. A parcel may consist of one or more adjacent fields.

**Primary sampling unit (PSU):** Geographically-defined administrative unit selected at first stage of sampling.

**Producers' price:** The price obtained by the farmer by selling their vegetable products at their home or field, excluding transportation cost if sold at the market.

**Sample frame:** Set of elements from which sample is actually selected, such as a list or set of areas, a collection of population units.

**Sample size:** Number of households or persons selected

**Sampling in stages:** Means by which sample of administrative areas and households/persons is chosen in successive stages to pinpoint geographical locations where survey is conducted.

**Sampling with probability proportionate to size (PPS):** Selection of first (second, etc.) stage units in which each is chosen with probability proportionate to its measure of size.

**Self-weighting:** Sample design where all cases have same survey weight.

**Stratified sampling:** Technique of organizing a sample frame into subgroups that are internally homogeneous and externally heterogeneous to ensure that sample selection is “spread” properly across important population subgroups.

**Systematic sampling:** Selection from a list, using a random start and predetermined selection interval, successively applied

**Target population:** Definition of population intended to be covered by survey; also known as coverage or universe.

**Value added:** The difference of total farm output and total farm input of the vegetable farming.

**Vegetable holding:** All the operational holdings where vegetable crops were grown at least in 2 Aana (0.00636 hectares) in Mountains and Hills or 4 Dhur (0.00677 hectares) in Tarai of land were termed as vegetable holding.

**Weight:** Inverse of probability of selection; inflation factor applied to raw data; also known as raising factor.



## Annex II

### Estimation Methodology

Most of the parameters in this survey were estimated at survey domain, development region, agro-ecological belt and national level. As the sample design was multistage, it was necessary to consider the selection probabilities at each stage of sample selection.

The weighting of sample data for the estimation procedure is given as the following stages.

1. First stage: Probability of selecting a particular district  $i$  of domain  $h$  ( $P_{hi}$ ) =  $n_h * \frac{N_{hi}}{\sum_{i=1}^{N_h} N_{hi}}$

where

$N_{hi}$  is the area under vegetable crops in  $i^{\text{th}}$  district of  $h^{\text{th}}$  domain in the sample frame,

$\sum N_{hi}$  is the total area under vegetable crops in the  $h^{\text{th}}$  domain of the sampling frame,

$n_h$  is the number of districts to be selected from the  $h^{\text{th}}$  domain, and

$N_h$  is the total number of the districts in the  $h^{\text{th}}$  domain.

2. Second stage: Probability of selecting a particular ward  $j$  ( $P_j$ ) =  $m_{hi} * \frac{M_{hij}}{\sum_{j=1}^{M_{hi}} M_{hij}}$

where

$M_{hij}$  is the number of households in  $j^{\text{th}}$  ward of  $i^{\text{th}}$  district from  $h^{\text{th}}$  domain in the sample frame,

$\sum M_{hij}$  is the total number of households in  $j^{\text{th}}$  ward of  $i^{\text{th}}$  district from  $h^{\text{th}}$  domain of the sampling frame, and

$m_{hi}$  is the number of the commercial or ordinary wards in the  $i^{\text{th}}$  district from  $h^{\text{th}}$  domain which was distributed proportionately within each district, and

$M_{hi}$  is the total number of the commercial or ordinary wards in the  $i^{\text{th}}$  district from  $h^{\text{th}}$  domain.

$$3. \text{ Third stage: Probability of selection of a household } k (P_k) = \frac{l_{hij}}{\sum_{k=1}^{M_{hij}} M_{hijk}} * \frac{\sum_{k=1}^{M_{hij}} M_{hijk}}{M_{hij}}$$

$$= \frac{l_{hij}}{M_{hij}}$$

where

$l_{hij}$  is the number of households to be interviewed in the  $j^{\text{th}}$  ward of  $i^{\text{th}}$  district from  $h^{\text{th}}$  domain which was set at 15 (20 for the domains MidWest Tari, FarWest Hills and FarWest Tarai),

$\sum M_{hijk}$  is the households in  $j^{\text{th}}$  ward of  $i^{\text{th}}$  district from  $h^{\text{th}}$  domain in the sampling frame,

$\sum M_{hijk}$  ' is the households counted in  $j^{\text{th}}$  ward of  $i^{\text{th}}$  district from  $h^{\text{th}}$  domain at the listing stage,

$M_{hij}$  is the total number of households in  $j^{\text{th}}$  ward of  $i^{\text{th}}$  district from  $h^{\text{th}}$  domain in the sampling frame, and

$M_{hij}$  ' is the total number of households counted in  $j^{\text{th}}$  ward of  $i^{\text{th}}$  district from  $h^{\text{th}}$  domain at the listing stage.

The overall probability of selection for an individual household is the multiple of the selection probabilities at the three stages.

$$\text{Overall selection probability of a household } (P_{hijk}) = n_h * \frac{N_{hi}}{\sum_{i=1}^{N_h} N_{hi}} * m_{hi} * \frac{M_{hij}}{\sum_{j=1}^{M_{hi}} M_{hij}} * \frac{l_{hij}}{M_{hij}}$$

Overall selection probability of a vegetable holding ( $P'_{hijk}$ )

$$= n_h * \frac{N_{hi}}{\sum_{i=1}^{N_h} N_{hi}} * m_{hi} * \frac{M_{hij}}{\sum_{j=1}^{M_{hi}} M_{hij}} * \frac{l_{hij}}{M_{hij}} * \frac{M_{hij}}{V_{hij}}$$

$$= n_h * \frac{N_{hi}}{\sum_{i=1}^{N_h} N_{hi}} * m_{hi} * \frac{M_{hij}}{\sum_{j=1}^{M_{hi}} M_{hij}} * \frac{l_{hij}}{V_{hij}}$$

where

$V_{hij}$  is the number of vegetable holdings counted in  $j^{\text{th}}$  ward of  $i^{\text{th}}$  district from  $h^{\text{th}}$  domain at the listing stage.

The raising factor is the inverse of this probability, and the formula can be rewritten as follows:

$$\text{Raising up factor for household level estimates} = \frac{\sum_{i=1}^{N_h} N_{hi}}{N_{hi} * n_h} * \frac{\sum_{j=1}^{M_{hi}} M_{hij}}{M_{hij} * m_{hi}} * \frac{M_{hij}}{l_{hij}}$$

$$\text{Raising up factor for vegetable holding level estimates} = \frac{\sum_{i=1}^{N_h} N_{hi}}{N_{hi} * n_h} * \frac{\sum_{j=1}^{M_{hi}} M_{hij}}{M_{hij} * m_{hi}} * \frac{V_{hij}}{l_{hij}}$$

$$\text{The ward level mean of the vegetable } \bar{y}_{hij} = \frac{1}{l_{hij}} * \sum_{k=1}^{l_{hij}} y_{hijk}$$

$$\text{The ward level total of the vegetable } \hat{y}_{hij} = \frac{V_{hij}}{l_{hij}} * \sum_{k=1}^{l_{hij}} y_{hijk}$$

The district level mean of the vegetable  $\bar{y}_{hi} = \sum_{j=1}^{m_{hi}} \frac{V_{hij}}{l_{hij}} * \sum_{k=1}^{l_{hij}} y_{hijk}$

The district level total of the vegetable  $\hat{y}_{hi} = m_{hi} * \sum_{j=1}^{m_{hi}} \frac{V_{hij}}{l_{hij}} * \sum_{k=1}^{l_{hij}} y_{hijk}$

The domain level mean of the vegetable  $\bar{y}_h = \sum_{i=1}^{n_h} \frac{N}{N_{hi}} * m_{hi} * \sum_{j=1}^{m_{hi}} \frac{V_{ij}}{l_{hij}} * \sum_{k=1}^{l_{hij}} y_{hijk}$

The domain level total of the vegetable  $\hat{y}_h = n_h * \sum_{i=1}^{n_h} \frac{N}{N_{hi}} * m_{hi} * \sum_{j=1}^{m_{hi}} \frac{V_{hij}}{l_{hij}} * \sum_{k=1}^{l_{hij}} y_{hijk}$

The national mean of the vegetable  $\bar{y} = \frac{1}{h} \sum_{h=1}^{11} h \sum_{i=1}^{n_h} \frac{N}{N_{hi}} * m_{hi} * \sum_{j=1}^{m_{hi}} \frac{V_{ij}}{l_{hij}} * \sum_{k=1}^{l_{hij}} y_{hijk}$

The national total of the vegetable  $\hat{y} = \sum_{h=1}^{11} h \sum_{i=1}^{n_h} \frac{N}{N_{hi}} * m_{hi} * \sum_{j=1}^{m_{hi}} \frac{V_{ij}}{l_{hij}} * \sum_{k=1}^{l_{hij}} y_{hijk}$

## Annex III

### Name List of Survey Team

#### Annex 3.1: Name List of the Core Team

S. No.	Name	Designation	Office
1	Mr. Uttam Narayan Malla	Director General	Central Bureau of Statistics (CBS)
2	Mr Prabodh Sagar Dhakal	Deputy Director General	Economic Statistics Division, CBS
3	Mr. Ambika Bashyal	Director	Agriculture Statistics Section, CBS
4	Mr. Rajesh Dhital	Statistical Officer	Agriculture Statistics Section, CBS
5	Mr. Birendra Kumar Kayastha	Statistical Officer	Agriculture Statistics Section, CBS
6	Mr. Ram Hari Gaihre	Statistical Officer	Agriculture Statistics Section, CBS
7	Mr. Prithvi Vijayaraj Sijapati	Statistical Officer	Agriculture Statistics Section, CBS
8	Ms. Ranju Khadka	Statistical Officer	Agriculture Statistics Section, CBS
9	Mr. Bishwo Nath Tripathi	Statistical Officer	Agriculture Statistics Section, CBS
10	Mr. Ana Raj Tiwari	Statistical Assistant	Agriculture Statistics Section, CBS
11	Mr. Rajan Khatri	Office Assistant	Agriculture Statistics Section, CBS

#### Annex 3.2: Name List of the Field Staff>>

Team	Survey Districts	Team Coordinator/Enumerator	Designation
1	Ilam, Jhapa	Ms. Tulasa Baral (Pokharel)	Supervisor, BSO Morang
		Mr. Buddhi Prasad Poudel	Kharidar, BSO Morang
		Ms. Mithila Adhikari	Kharidar, BSO Morang
2	Morang, Khotang	Mr. Mukunda Dahal	Enumerator, BSO Morang
		Mr. Bimal Prasad Poudel	Kharidar, BSO Sunsari
		Mr. Khila Raj Niraula	Kharidar, BSO Udaypur
3	Sunsari, Siraha	Mr. Kirpananda Jha	Supervisor (Special), BSO Sunsari
		Mr. Rajendra Prasad Yadav	Supervisor (Special), BSO Sunsari
		Mr. Sharada Prasad Ghimire	Kharidar, BSO Sunsari
4	Dhankuta, Sankhuwasabha	Mr. Yam Bahadur Gurung	Kharidar, BSO Dhankuta
		Mr. Ramesh Prasad Bhattarai	Accountant (Special), BSO Dhankuta
		Mr. Chandra Man Pradhan	Kharidar, BSO Dhankuta
5	Kabhre, Sindhupalchok	Mr. Chandrakaji Manandhar	Supervisor, BSO Kabhre
		Mr. Bishnu Raj Regmi	Supervisor, BSO Kaski
		Mr. Santosh Karki	Enumerator, BSO Kabhre

## Annex 3,2: Name List of the Field Staff<<

Team	Survey Districts	Team Coordinater/Enumerator	Designation
6	Bhaktapur, Nuwakot	Ms. Anita Kafle	Supervisor, BSO Kathmandu
		Ms.Sadhana K.C.	Supervisor (Special), BSO Kathmandu
		Mr. Gajendra Lal Shrestha	Supervisor (Special), BSO Kathmandu
7	Chitwan, Dhading	Mr. Indra Bilas Koirala	Supervisor (Special), BSO Chitwan
		Mr. Bishnu Adhikari	Enumerator, BSO Makwanpur
		Mr. Krishna Hari Pandit	Accountant (Special), BSO Chitwan
8	Dhanusa, Sarlahi	Mr. Dilip Kumar Shah	Supervisor (Special), BSO Mahottari
		Mr. Radha Krishna Raya	Kharidar, BSO Mahottari
		Mr. Kashi Mandal	Kharidar, BSO Dhanusha
9	Bara, Parsa	Mr. Sanjaya Kumar Yadav	Supervisor, BSO Kabhre
		Mr. Shiva Shandar Yadav	Kharidar, BSO Parsa
		Mr. Sudama Prasad Kurmi	Kharidar, BSO Parsa
10	Kaski, Lamjung	Mr. Tika Ram Sharma	Enumerator, BSO Kaski
		Ms. Tulsi Devi Acharya	Kharidar, BSO Kaski
		Mr. Govinda Prasad Poudel	Kharidar, BSO Kaski
11	Kapilbastu, Nawalparasi	Mr. Arjun Adhikari	Supervisor (Special), BSO Chitwan
		Mr. Govinda Prasad Dumre	Enumerator, BSO Kapilvastu
		Mr. Jeet Bahadur Chaudhari	Kharidar, BSO Kapilvastu
12	Palpa, Rupandehi	Mr. Suresh Subedi	Supervisor, BSO Palpa
		Mr. Hum Bahadur K.C.	Accountant (Special), BSO Palpa
		Mr. Kamal Raj Poudel	Enumerator, BSO Palpa
13	Dang, Bardiya	Mr. Damodar Gautam	Supervisor, BSO Dang
		Mr. Nirmal Regmi	Nayab Subba, BSO Dang
		Mr. Madhav Prasad Poudel	Kharidar, BSO Dang
14	Rukum, Salyan	Mr. Vishwa Nath Tripathi	Statistical Officer (Special), CBS
		Mr. Jash Raj Oli	Co- Accountant, BSO Rukum
		Mr.Prem Kumar Sharma	Kharidar, BSO Banke
		Mr. Rajendra Poudel	Accountant (Special), BSO Syangja
15	Dailekh, Kailali	Mr. Motiram Rokaya	Supervisor, BSO Surkhet
		Mr.Surendra Prasad Panta	Enumerator, BSO Bajura
		Mr. Krishna Bahadur Basnet	Enumerator, BSO Surkhet
16	Doti, Dandeldhura	Mr. Mohan Dev Bhatta	Statistical Assistant, CBS
		Mr. Kapil Dev Joshi	Supervisor, BSO Doti
		Mr Dan Bahadur Mahara	Kharidar, BSO Dandeldhura
		Mr. Rugum Bahadur Thapa	Supervisor, BSO Doti
17	Kanchanpur, Darchula	Mr. Purna Bahadur Chand	Statistical Officer (Special), BSO Kanchanpur
		Mr. Lal Bahadur Nepali	Kharidar, BSO Kanchanpur
		Mr. Mohan Sing Thagunna	Enumerator, BSO Darchula
		Mr.Tek Bahadur Bohara	Supervisor (Special), BSO Kanchanpur

# Annex IV

## Household Listing and Roster

Form 1

Page No. .... of Total Page .....

Government of Nepal National Planning Commission Secretariat Central Bureau of Statistics  <b>Nepal Vegetable Crops Survey 2009</b>  <i>Listing Sheet of Vegetable Farming Household</i>				<b>1.1 Geographical Identification of Enumeration Area</b>					<b>Confidential</b>						
				1. Survey Domain: .....					<i>All information collected in this questionnaire will be confidential as per Statistical Act 2015 and will be used for statistical purposes only.</i>  <b>Responsibility</b> <i>All households related to this survey are obliged to provide information required in the questionnaire to Central Bureau of Statistics.</i>						
				2. District: .....											
				3. Municipality/V.D.C.: .....											
				4. Ward No. ....											
				5. Enumeration Area Serial Number .....											
				6. Team Number .....											
<b>1.2 Selection of Agricultural Household with Vegetable Farming</b>															
Total Number of Agricultural Households of Column 13 (N <sub>1</sub> ) = .....						Total Number of Agricultural Households to be selected (n) = 15									
Total Number of Agricultural Households of Column 14 (N <sub>2</sub> ) = .....						Sampling Interval (I) = Last Serial Number of Column 6 (N) ÷ 15 = .....									
Total Number of Agricultural Households of Column 15 (N <sub>3</sub> ) = .....						First Selection (A) = .....									
Total Number of Agricultural Households of Column 16 (N <sub>4</sub> ) = .....						If the First Selection is "A" and Sampling Interval is "I",									
Total Number of Agricultural Households (N) = N <sub>1</sub> +N <sub>2</sub> +N <sub>3</sub> +N <sub>4</sub> = .....						List of Selected Household will be A, A+I, A+2I, A+3I, .....									
<b>1.3 Classification of Household Listing and Record of Selected Households with Vegetable Farming</b>															
House Serial Number	Household Serial Number	Name of Household Head	Address (Village/Settlement)	Vegetable Crops under Land area of at least 2 Ana or 4 Dhur Yes 1 No 2 (If no, proceed to next household)	Serial Number of Vegetable Crops Holder if answer is "Yes" in column 5	Name of Vegetable Crops Holder	Total number of parcels under vegetable crops	Unit of Land Area Bigha 1 Ropani 2	Total Area under Vegetable Crops			Household Serial Number of Holder operating 2 Ana/4 Dhur and more but less than 8 Ana/10 Dhur of land for Vegetable Crops	Household Serial Number of Holder operating 8 Ana/10 Dhur and more but less than 1 Ropani/1 Kaththa of land for Vegetable Crops	Household Serial Number of Holder operating 1 Ropani/1 Kaththa and more but less than 5 Ropani/5 Kaththa of land for Vegetable Crops	Household Serial Number of Holder operating 5 Ropani/5 Kaththa and more land for Vegetable Crops
									B/R	K/A	D/P				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Name of Enumerator: ..... Date: ..... Signature: ..... Name of Supervisor: ..... Date: ..... Signature: .....

**Form 1A**

Government of Nepal National Planning Commission Secretariat Central Bureau of Statistics  <b>Nepal Vegetable Crops Survey 2009</b>  <i>Roster of Sampled Vegetable Holdings</i>					<b>1.1 Geographical Identification of Enumeration Area</b>					
					1. Survey Domain: .....					
					2. District: .....					
					3. Municipality/V.D.C.: .....					
					4. Ward No.					
					5. Enumeration Area Serial Number					
					6. Team Number					
<b>1.2 Selected Agricultural Households with Vegetable Crops</b>										
Total No. of Agricultural Households in Enumeration Area (N) = ..... Sampling Interval (I) = ..... First Random Start (A) = ..... Total Number of Agricultural Households to be sampled (n) = 15					Name of Supervisor involved in Sample Selection: ..... Signature: ..... Date: .....					
<b>1.3 List of Selected Agricultural Households with Vegetable Crops</b>										
Serial Number	Serial Number of Vegetable Crops Holder (From Column No. 6 of Form No. 1)	Name of Vegetable Crops Holder	Address (Village/Settlement)	Remarks	Serial Number	Serial Number of Vegetable Crops Holder (From Column No. 6 of Form No. 1)	Name of Vegetable Crops Holder	Address (Village/Settlement)	Remarks	
1	2	3	4	5	1	2	3	4	5	
1					11					
2					12					
3					13					
4					14					
5					15					
6					16					
7					17					
8					18					
9					19					
10					20					



# Annex V

## Household Survey Questionnaire

Form - 2

Form Serial No.

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<p style="text-align: center;">Government of Nepal National Planning Commission Secretariat Central Bureau of Statistics</p> <p style="text-align: center;"><b>Nepal Vegetable Crops Survey 2009</b></p> <p style="text-align: center;"><b>Household Survey Questionnaire</b></p>	<p style="text-align: center;"><u><b>Confidential</b></u> <i>All information collected in this questionnaire will be confidential as per Statistical Act 2015 and will be used for statistical purposes only.</i></p> <p style="text-align: center;"><u><b>Responsibility</b></u> <i>All households related to this survey are obliged to provide information required in the questionnaire to Central Bureau of Statistics.</i></p>								
<b>Part I - Introductory Description</b>									
<b>Team No.</b> <input style="width: 50px;" type="text"/>									
1 Survey Domain .....	<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 25%; height: 15px;"></td><td style="width: 25%; height: 15px;"></td><td style="width: 25%; height: 15px;"></td><td style="width: 25%; height: 15px;"></td></tr></table>								
2 District .....	<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 25%; height: 15px;"></td><td style="width: 25%; height: 15px;"></td><td style="width: 25%; height: 15px;"></td><td style="width: 25%; height: 15px;"></td></tr></table>								
3 Municipality/V.D.C. ....	<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 25%; height: 15px;"></td><td style="width: 25%; height: 15px;"></td><td style="width: 25%; height: 15px;"></td><td style="width: 25%; height: 15px;"></td></tr></table>								
4 Ward No. ....	<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 25%; height: 15px;"></td><td style="width: 25%; height: 15px;"></td><td style="width: 25%; height: 15px;"></td><td style="width: 25%; height: 15px;"></td></tr></table>								
5 Village/Settlement .....									
6 Enumeration Area Serial No. ....	<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 25%; height: 15px;"></td><td style="width: 25%; height: 15px;"></td><td style="width: 25%; height: 15px;"></td><td style="width: 25%; height: 15px;"></td></tr></table>								
7 Agricultural Household Serial No. (From Form 1) ....	<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 25%; height: 15px;"></td><td style="width: 25%; height: 15px;"></td><td style="width: 25%; height: 15px;"></td><td style="width: 25%; height: 15px;"></td></tr></table>								
8 Selected Agricultural Household Serial No. (From Form 1A) ....	<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 25%; height: 15px;"></td><td style="width: 25%; height: 15px;"></td><td style="width: 25%; height: 15px;"></td><td style="width: 25%; height: 15px;"></td></tr></table>								
9 Name of Respondent .....									
10 Name of Holder .....									
11 Caste/Ethnicity of Holder .....	<input style="width: 50px;" type="text"/>								
12 Sex of Holder .....									
13 Total Members of Household including Holder	<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 25%;">Total</th><th style="width: 25%;">Male</th><th style="width: 25%;">Female</th><th style="width: 25%;"></th></tr></thead><tbody><tr><td style="height: 15px;"></td><td style="height: 15px;"></td><td style="height: 15px;"></td><td style="height: 15px;"></td></tr></tbody></table>	Total	Male	Female					
Total	Male	Female							
14 Education of Holder .....	<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 25%; height: 15px;"></td><td style="width: 25%; height: 15px;"></td><td style="width: 25%; height: 15px;"></td><td style="width: 25%; height: 15px;"></td></tr></table>								
15 What is the main source of income of holder's household? 1 Vegetable Farming 2 Other Farming 3 Livestock/Poultry 4 Trade/Business 5 Transport Service 6 Salary/Wages 7 Others									
16 What is the main purpose of vegetable farming? 1 Household Consumption 2 Commercial/Sale									
Name and Signature of Enumerator: .....	Name and Signature of Supervisor: .....								
Date of Enumeration: .....	Date of Supervision: .....								

Part II - Area and Use of Land by Parcel										
Area Unit : 1 Bigha 2 Ropani										
S. No.	Name of Parcel	Code	Area			Land Use	Irrigation Facility	Source of Irrigation	Land Ownership	
			B/R	K/A	D/P					
1	2	3	4	5	6	7	8	9	10	
1		1								
2		2								
3		3								
4		4								
5		5								
6		6								
7		7								
8		8								
9		9								
10		10								
11		11								
12		12								
13		13								
14		14								
15		15								
16		16								
17		17								
18		18								
19		19								
20		20								
21		21								
22		22								
23		23								
24		24								
25		25								
<b>Total Area</b>		99								

**Codes**

Land Use	
Land under Vegetable Crops at least once in a Reference Period	1
Land under Other Crops	2

Irrigation Facility	
Yes	1
No	2

Source of Irrigation	
Continuous Flow, Canal	1
Natural Flow, Canal	2
Pond/Well	3
Tube well/Boring	4
Drip Irrigation	5
Others	6

Land Ownership	
Own	1
Rented-in	2
Others	3

**Part III - Description of Employment and Current/Capital Expenditure**

**3.1 Family and Permanent/Temporary Workers engaged in Vegetable Farming**

S. No.	Type of Labour	No. of Workers			Female Wage Rate (Rs.)		Male Wage rate (Rs.)	
		Total	Female	Male	Monthly	Daily	Monthly	Daily
1	2	3	4	5	6	7	8	9
1	Family worker							
2	Permanent worker							
3	Temporary worker*							

\* In case of Temporary Worker : Copy down the no. of total mandays from 3.3 "Current Expenditure on Vegetable Farming" Column No. 8 and 9.

**3.2 Description of Capital Expenditure on Vegetable Farming**

S. No.	Description of Capital Expenditure	Expenditure (Rs.)
1	2	3
1	Land purchase for vegetable farming during reference period	
2	Purchase of boring/pumping set/sprinkler/drip irrigation/Dhiki pump	
3	Purchase of Agricultural equipment (Sprayer, Tractor, Storage goods, etc)	
4	Others (Construction of shades, repair of vehicles, land improvemen	
<b>Total</b>		

**Use for Rough Calculation:**

### 3.3 Current Expenditure on Vegetable Farming

S. No.	Vegetable Crops		Division of											
			Land Rented/ Contracted-in		Land Preparation (Ploughing, Fencing)		No. of Temporary Hired Workers		Purchase/ Production of Seeds/ Seedlings		Tunnel/ Shade/Climber support Construction		Irrigation (Fuel/ Electricity/ Water)	
	CPC		154		154				3461		4411		3462	
	Name	Code	M	Exp.(Rs.)	M	Exp.(Rs.)	M	Exp.(Rs.)	M	Exp.(Rs.)	M	Exp.(Rs.)	M	Exp.(Rs.)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1														
2														
3														
4														
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23														
24														
25														
<b>Total Expenditure (Rs.)</b>														



**Part IV - Production**

**4.1 Vegetable Production**

S.No.	Parcel		Vegetable Crop		Area planted			Crop planted		Crop harvested	
	Name	Code	Name	Code	B/R	K/A	D/P	Month	Code	Month	Code
1	2	3	4	5	6	7	8	9	10	11	12
1											
2											
3											
4											
5											
6											
7											
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25											
26											
27											
28											
29											
30											
<b>Total</b>											

**and Income**

Production and Use Quantity (kg)		Scattered Vegetable Crop		Total Production (kg)	Farm Gate Price (Rs./kg)	Total Production (Rs.)		
Household Consumption	Sales	No. of Plants	Production (kg)					
13	14	15	16	17	18	19		
							<b>1 Cabbage</b>	<b>4 Leafy Vegetable</b>
							111 Cauliflower	411 Broad leaf mustard
							112 Cabbage	412 Garden cress
							113 Broccoli	413 Spinach
							114 Knol Khol	414 Mustard leaf
							199 Other Cole Crops	415 Buckwheat leaf
							<b>2 Cucurbitaceae</b>	416 Fenugreek leaf
							211 Tomato	417 Garlic Green
							212 Brinjal/Eggplant	418 Onion Green
							213 Bitter gourd	419 Pumpkin shoot
							214 Lady's finger/Okra	420 Chayote shoot
							215 Hot pepper/Chilli	421 Colocasia leaf
							216 Scotch bonnet chilli	499 Other Leafy Vegetable
							217 Sweet pepper	<b>5 Roots</b>
							218 Cucumber	511 Radish
							219 Pumpkin	512 Turnip
							220 Squash	513 Carrot
							221 Bottle/Ridge gourd	514 Onion
							222 Sponge gourd	515 Garlic
							223 Snake gourd	599 Other Root Vegetable
							224 Balsam apple	<b>6 Tubers</b>
							225 Chayote/Christophine	611 Summer potato
							226 Pointed gourd	612 Winter potato
							227 Ash gourd	613 Yam
							228 Watermelon	614 Colocasia/Arum
							299 Other Cucurbitaceae	615 Elephant foot yam
							<b>3 Leguminosae</b>	616 Sweet potato
							311 Pea	699 Other Tuber Vegetable
							312 Bean	<b>7 Others</b>
							313 Asparagus bean	711 Asparagus
							314 Broad bean	799 Other Vegetable
							315 Soya bean	
							399 Other Leguminosae	

**Part IV - Production and Income (Continued.....)**

4.2 Other Income from Vegetable Farming			4.3 Capital Income		
S.No.	Description of Income	Income (Rs.)	S.No.	Description of Income	Income (Rs.)
1	2	3	1	2	3
1	Income from sale of seeds/seedlings		1	Income from sale of land	
2	Income from sale of vegetable byproducts		2	Income from sale of bullock/buffalo	
3	Other income		3	Other income	
<b>Total</b>			<b>Total</b>		

**Part V - Financial Description**

- 5.1** Did you borrow loan for vegetable farming?  
 1 Yes  
 2 No --> 6.1
- 5.2** From whom did you take the loan?
- |   |                              |   |                        |
|---|------------------------------|---|------------------------|
| 1 | Agriculture Development Bank | 5 | Women's Group          |
| 2 | Co-operatives                | 6 | Relatives/Friends      |
| 3 | Other Financial Institution  | 7 | Others (Specify) ..... |
| 4 | Farmers' Group               |   |                        |

**Part VI - Miscellaneous**

- 6.1** Are there improved seeds easily available as per your needs?  
 1 Yes                      2 No
- 6.2** Have you used insecticides/pesticides in the vegetable to protect from disease?  
 1 Yes                      2 No --> 6.4
- 6.3** What types of insecticides/pesticides did you use to protect the vegetables?  
 1 Organic/Local              2 Chemical
- 6.4** Where did you take the technical assistance for vegetable farming?  
 1 From JT/JTA              2 From Non-Govt. Agr. Technician  
 3 From others --> 6.6      4 Not needed --> 6.6
- 6.5** How do you rate the help that you received from Agricultural Technician?  
 1 Very good                  2 Good  
 3 General                      4 No good help received
- | Mode of Transport    | Code  |
|----------------------|-------|
| On foot              | ... 1 |
| Cycle/Rickshaw       | ... 2 |
| Motorbike/Tempo      | ... 3 |
| Car/Bus              | ... 4 |
| Mixed (on foot/cart) | ... 5 |
| Near the house       | ... 6 |
- 6.6** What is the market facility for selling of produced vegetable?  
 1 Good                      2 General                      Lack of Market
- 6.7** Where do you mainly sell your produced vegetables?  
 1 At home --> 6.9              2 Local market  
 3 Local collection centre      4 Wholesale market
- 6.8** How far is vegetable market from the house?  
 Mode of Transport       Time Required      Hour       Minute
- 6.9** Who is mainly involved from the family to sell the vegetables?  
 1 Male                      2 Female
- 6.10** How many months can your household expenditure be maintained from the income of vegetable?  
 No. of Months
- 6.11** Is the vegetables produced by you sufficient for your household consumption?  
 1 Yes                      2 No



## Control Form

*This part of questionnaire is to be filled by supervisor*

### Cost Expenditures

1a Expenses of Permanent Workers from Section 3.1

= (Column No. 4 X Column No. 6 + Column No. 5 X Column No. 8) X 12

Rupees

1b Expenses of temporary Workers from Section 3.1

= Column No. 4 X Column No. 7 + Column No. 5 X Column No. 9

Rupees

1 **Total Expenses on Workers**

= (1a + 1b)

Rupees

2 **Total Current Expenses**

= Total of Current Expenditure on Vegetable Farming from Section 3.3

Rupees

A **Total Cost Expenditures**

Rupees

### Income

3 Income from Vegetable Farming

= Total price of Column 19 of Section 4.1

Rupees

4 Other Income

= Total of Column 3 of Section 4.2

Rupees

B **Total Income (3+4)**

=

Rupees

**Difference (Profit/Loss) = B - A**

Rupees

Caste/Ethnicity Codes			Education Codes
1 Chhetri	35 Rajbansi	69 Thakali	0 Nursery/KG
2 Brahman (Hill)	36 Sunuwar	70 Chidimar	1 Grade 1
3 Magar	37 Sudhi	71 Pahari	2 Grade 2
4 Tharu	38 Lohar	72 Mali	3 Grade 3
5 Tamang	39 Tatma	73 Bangali	4 Grade 4
6 Newar	40 Khatwe	74 Chhantel	5 Grade 5
7 Muslim	41 Dhobi	75 Dom	6 Grade 6
8 Kami	42 Majhi	76 Kamar	7 Grade 7
9 Yadav	43 Nuniya	77 Bote	8 Grade 8
10 Rai	44 Kumhar	78 Brahmu/Baramu	9 Grade 9
11 Gurung	45 Danuwar	79 Gaine	10 Grade 10
12 Damain/Dholi	46 Chepang/Praja	80 Jirel	11 SLC
13 Limbu	47 Haluwai	81 Adibasi/Janajati	12 Grade 12/ Intermediate level
14 Thakuri	48 Rajput	82 Dura	13 Bachelor level
15 Sarki	49 Kayastha	83 Churaute	14 Master level
16 Teli	50 Badhai	84 Badi	15 Professional Degree
17 Chamar/Harijan/Ran	51 Marwadi	85 Meche	16 Literate (Informal Education)
18 Koiri	52 Santhal/Satar	86 Lepcha	17 Illiterate
19 Kurmi	53 Dhangad/Jhangad	87 Halkhor	
20 Sanyasi	54 Bantar	88 Punjabi/Sikh	
21 Dhanuk	55 Barai	89 Kisan	
22 Musahar	56 Kahar	90 Raji	
23 Dusadh/Paswan/Pasi	57 Gangai	91 Byangsi	
24 Sherpa	58 Lodh	92 Hayu	
25 Sonar	59 Rajbhar	93 Koche	
26 Kewat	60 Thami	94 Dhunia	
27 Brahman (Tarai)	61 Dhimal	95 Walung	
28 Baniya	62 Bhote	96 Jain	
29 Gharti/Bhujel	63 Bing/Binda	97 Munda	
30 Mallah	64 Bhediyar/Gaderi	98 Raute	
31 Kalwar	65 Nurang	99 Yehlmo	
32 Kumal	66 Yakkha	100 Patharkatta/Kuswadiya	
33 Hajam/Thakur	67 Darai	101 Kusunda	
34 Kanu	68 Tajpuriya	102 Other Caste	

Month Codes
1 April/May (Baishakh)
2 May/June (Jeth)
3 June/July (Asar)
4 July/August (Saun)
5 August/September (Bhadau)
6 September/October (Asoj)
7 October/November (Kattik)
8 November/December (Mangsir)
9 December/January (Pus)
10 January/February (Magh)
11 February/March (Fagon)
12 March/April (Chait)

## Annex VI

### Survey Glimpses



Training of enumerators and field supervisor





Interview with the vegetable holder





