PROBLEMS, POTENTIAL AND ECONOMICS OF MUSHROOM CULTIVATION IN H.P.

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CHAPTER - I

INTRODUCTION

Mushrooms are the fruiting bodies of some members of lower group of plants, called fungi. Due to this reason the mushrooms are also called fleshy fungi. The fungus and hence mushrooms are characterised by the absence of chlorophyll which is responsible for imparting green colour to plants. Due to absence of chlorophyll, mushrooms are not able to synthesise their own food and have to depend upon outside sources for their nutritional requirements. It is because of this that mushrooms grow sparophytically on dead organic matter or parasitically with other living matter. The mushrooms are fruit bodies or reproductive structures emanating from mycelium, which under natural conditions remain buried under the soil.

1.1 HISTORY

Mushrooms have attracted the attention of man from ancient times. The references of mushrooms can be traced back to classical texts of Indian, Greek and roman literature. The wild growing mushrooms were picked for their aroma and palatability. The first cultivation of mushrooms was reported from France during 1650 where from these spread to England, America and some other countries. In Asia, China, South Korea and Taiwan were the first cultivators of mushrooms. At present Taiwan is considered to be the largest contributor of mushrooms to the world market.

The first efforts in cultivation of mushrooms in India started way back in 1940 at college of Agriculture, Coimbatore. Here the work was started on paddy straw mushrooms. Later trials were started at many other research stations in India. During 1961, Indian Council of Agricultural Research started a project in collaboration with H.P. Govt. named "Development of Mushroom Cultivation in Himachal Pradesh". The main aim was to grow mushrooms in the state with technology available within the country but some times with technology imported from abroad. It was realised that the imported technology was not compatible with the Indian conditions and hence the research work was taken up at different institutions in India to develop the indigenous technology for mushroom production. In 1970, the scientists started feeling that the indigenous mushroom production technology was standardised and could be made available to farmers. This induced the H.P. Govt. to establish a mushroom centre at Solan, in collaboration with United Nations Development Project (UNDP), with the objectives of providing technical know how to farmers along with critical inputs. The main aim was to induce large

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number of farmers to take up this activity. All efforts were concentrated on popularising the cultivation of white button mushrooms (Agaricus bisporus). This project started at the cost of Rs.1.26 crores had following specific objectives.

- To boost the research and development of mushrooms in the state.
- To make available quality spawn and compost.
- To make available latest production technology.
- To strengthen the marketing facilities for mushrooms.

The time period of project exhausted in 1982 after which the Department of Horticulture, H.P. is looking after the project activities. In addition to this the ICAR during 1982-83 established 'National Centre for Mushroom Research and Training' at Solan with the objectives of solving the problems faced by farmers in production of mushrooms and providing training to scientists, teachers, extension workers and mushroom cultivators regarding modern technique of mushroom cultivation.

1.2 WORLD SCENARIO

There are about 100 countries all over the world where mushrooms are cultivated which together are producing about 50 lakh tonnes of mushrooms. Of the total mushroom production, 50 percent is accounted by Europe, 27 percent North America and about 14 per cent by East Asian Countries. Presently, the production of mushrooms is increasing at a rate of 7 per cent the world own whereas in India this growth rate is 30 to 40 per cent. It is expected that the world production of mushroom would increase to 70 lakh tonnes per annum by the year 2010 and to 110 lakh tonnes by the year 2021. According to estimates of National Research Centre for Mushrooms the production in India was 40,000 MT during 1996-97 which is expected to increase to 1 lack MT by the year 2002. It is further estimated that this production would increase to 3 lakh MT. by year 2010 and 6 lakh MT by the year 2025.

1.3 INDIAN SCENARIO

The exports from India, during 1993, were insignificant but presently, it is reported that, India has pushed back Taiwan to gain position of top exporter of whole white button mushroom in the world. India has also gained the second position in the export of cut mushrooms. During 1997-98 total export of fresh, dried and covered mushrooms touched 57 crore rupees. Haryana, Himachal Pradesh, Uttar Pradesh, Punjab and Tamil Nadu are the main mushroom producing states in India.

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1.4 IMPORTANCE

More than 80 per cent of population of the state depends upon agriculture for its livelihood. The increasing population has put increasing pressure on scarce and fixed land resource with a consequence that about 80 per cent of the holdings have become marginal or small. As a result the income generation from farms is continuously going down. The limited availability of land has made extension of farm limits almost impossible. The only viable alternative is the introduction of non-land based activities having good income generation capacity.

The state has wide variations in agro-climatic conditions. The state provides ideal situation for cultivation of mushrooms. Any region which is about 2000 ft above MSL, temperature varies between 10 to 30oC and has humidity of 75-85 percent have good potential for cultivation of mushrooms. Many places in the state like Chail, Solan, Shimla, Mandi, Dalhausi etc. and regions around them fulfil these criteria and it is possible to have four harvest per annum at these places. The importance of mushroom cultivation also stems out from following facts.

- Mushroom cultivation generates direct and indirect employment.
- It requires very little land as it is cultivated in closed rooms.
- The used compost can be reused as good manure in other field crops.
- It has capacity of being exported and earning foreign exchange.
- It provides rich diet to vegetarians.
- Being rich in proteins and low in carbohydrates and fat, it is very good for the patients of heart, diabetes and obesity etc.

The upper regions of the state have been identified for the cultivation of white button mushrooms and lower regions for 'Dhingri' (Plutorus sages kaju)

1.5 FOOD VALUE

The mushrooms are not only highly palatable but are very good for health as well. It has rich amounts of various proteins, vitamins, minerals etc. along with certain essential amino acids, which are normally not found in other vegetables. It has good amount of vitamin-B and C, which are good for beriberi, heart patients and healthy teeth of children. The acids like Niacin and pentathenic found in mushrooms are good for skin diseases. The folic acid found in mushroom can cure anaemia.

The composition of white button mushrooms (percent on wet weight basis) has been presented in following table:

CONSTITUENT	PERCENT			
WATER	89.60			
PROTEIN	3.94			
FAT	0.19			
EXTRACT MATTER	4.01			
FIBBER	1.09			
ASH	1.26			

TABLE: 1.1 COMPOSITION OF WHITE BUTTON MUSHROOMS.

From nutritional point of view, the white button mushrooms have following constitution.

CONSTITUENT	PERCENT
CALCIUM	0.0022
PHOSPHORUS	0.5
POTASSIUM	0.15
IRON	19.5 PPM
COPPER	1.35 PPM

TABLE 1.2 NUTRITIONAL VALUE OF MUSHROOM

The fresh white button mushrooms have the following vitamins.

TABLE: 1.3 VITAMINS IN FRESH WHITE BUTTON MUSHROOMS

	· · · · ·
VITAMIN	QUANTITY
VITAMIN B (THIAMINE)	0.12
VITAMIN B	0.52
(RIBOFLAVIN)	
VITAMIN C	8.60
(ASCORBIC ACID)	
VITAMIN K	Insignificant
NIACIN	5.85
PENTATHENIC ACID	2.38

(MG/100gms)

The nutritional advantage provided by mushrooms along with its capacity of income and employment generation have prompted the scientists to strongly advocate the cultivation of white button mushrooms in the state. This could be step towards solving the problems of unemployment income generation and malnutrition among rural population. However, as is generally found there are gaps between expectations and realisation. there are also various problems and bottlenecks in production and marketing which can be solved with proper remedial measures taken well in time. Such remedial measures can go a long way in popularising this enterprise in the state and to establish it on commercial lines for better employment and income generation.

It is with this background that the present study has been carried out in H.P. with following specific objectives.

1.6 OBJECTIVES

The study is based on following objectives:

- **1.** To study on going government schemes and programmes for development of mushrooms in the state.
- 2. To study the socio-economic profile of mushroom cultivators.
- 3. To work out economics of mushroom cultivation on different sizes of farms.
- **4.** To study the financial efficiency of mushroom cultivation.
- 5. To study the relationship of productivity with capital and labour.
- 6. To examine the different marketing channels, margins and costs.
- **7.** To study the socio-economic constraints and problems in production and marketing of mushrooms.

CHAPTER -II

REVIEW OF LITERATURE

The present chapter presents the review of literature. The review of literature is necessary for having an idea about the results and methodology of the similar studies conducted in the past. The following text provides some of the literature reviewed prior to initiation of the study and also during the course of the study. This chapter also includes the success stories of two of the entrepreneurs who had very humble beginning but due to their hard work and the concerted efforts have gained a solid foothold in the mushroom scenario of the State.

2.1 REVIEWS

NABARD, (1992) reported through their publication, "Model Bankable project on Button Mushroom for Export", that there is a large scope for export potential and markets of mushroom in the world. The Ministry of Commerce, Government of India has identified mushroom as extreme focus segment for export purposes. India produced about 12,000 tonnes of mushrooms in 1992-93, which includes all the cultivated types and those collected from the forest. The country exported 49.174 tonnes dried and 1174.76 tonnes processed mushroom, valued at Rs.1222 lakhs and Rs.381.19 lakhs respectively in 1991-92. While India's production is meagre, world production was 3.7 million tonnes of mushrooms, of which the share of button mushroom was 1.4 million tonnes in 1989-90. The major producers of button mushroom are USA, China, France, Holland, UK, Taiwan, Italy, Spain and Germany. The per capita consumption of mushrooms in the developed countries varies from 2.9 kg/annum (Germany) to 1.8kg/per annum (USA). Six countries share 85% of the total consumption of button mushrooms, USA (30%), Germany (17%), UK and France (11%) each, Italy (10%) and Canada (6%).

National Research Centre For Mushroom at ICAR Solan (1989) investigated the utilisation of spent Mushroom Compost with a view to recycle the spent mushroom compost (SMC) and to promote Farming System Research (FSR), an experiment was laid out at NRCM, Solan, during Kharif, 1998, utilizing two years old spent mushroom compost as a manure for maize cultivation. The varied doses of SMC were kept as treatments and no SMC application was used as a control. In the experiment, Kanchan hybrid was used for cultivation and no pesticides and only a single dose of urea @ 400g/16m2 plot as top-dressing was applied as a starter dose. The highest grain yield of 10.58kg/16m2 plot was recorded in treatment wherein

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SMC @ 24 kg per plot was applied. An enhancement of 79% grain yield over control was obtained in the above treatment. However, it was observed that higher doses of SMC (28 kg and 32 kg/plot) resulted in lower grain yield.

Department of Horticultural in Himachal Pradesh (1999) stated in it's perspective plan that Mushrooms are popular for their delicacy, flavour as well as food value. The agro-climatic conditions prevailing in many parts of the State provides ample scope for the cultivation of mushrooms, both for domestic consumption as well as for export purposes. Mainly two types of mushroom viz; white button mushroom (Agaricus bisporous) and Dhingri (pleurotus app.) are being cultivated in the State. The modern technology in commercial cultivation of mushroom was introduced under two externally aided projects implemented in the State viz. FAO/UNDP. Mushroom Development Project, Chambaghat (Solan) during 6th Five Year Plan and Indo-Dutch Mushroom Development Project at Palampur (Distt. Kangra) during the 7th Five Year Plan. Two bulk pasteurisation units for compost have been established under these projects with total capacity of production of 1350 M.T. of pasteurised compost (Chambaghat -350 M.T. of pasteurised compost and Palampur 1000 M.T.). The pasteurised compost from these units is being made available to registered mushroom growers of Shimla, Solan, Sirmour, Kangra, Chamba, Hamirpur, Una and Bilaspur Districts. The small and marginal farmers and unemployed graduates are being given preference under these projects.

Tiwari and Kapoor (1988) conducted a study in two major growing district of Himachal Pradesh. In this study it was observed that the net returns over cost C from mushrooms on small, medium and large farms were found to be Rs.(-) 5010.33, Rs. 1238.00 and 8790.60 respectively. The study indicated that large mushroom farms in the study area were better managed. The average net return from mushrooms was about 13.45 per annum per square metre of spawned area. On an average, the output input ratio was 1.05. Further study revealed that the share of producer in consumer's rupee was the highest in case of the channel where producer is directly selling to consumer. It was also observed that more than 90 per cent of the labour requirement of the mushroom farms was met from the farm family.

Ajit Samachar (1999) published in its daily paper that the total production of mushroom was 40 thousand MT and it is estimated that the production will increase about one lack MT up to 2002. This is all due to the assistance provided by Government of India for development of mushroom cultivation. For this development GOI launched a central sponsored scheme during eighth plan. But during 9th plan no target for production and export was fixed by the government.

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Shulini Samachar (1999) published that during 1960-61 ICAR introduced an alternative for agriculture production in the shape of mushroom cultivation at Solan district of Himachal Pradesh which was considered an origin of mushroom cultivation in India. Thereafter, government of Himachal Pradesh established a mushroom development project through Department of Horticulture during 1977. The main objective of the project was to develop research work on mushroom cultivation and to assist growers for availability of better quality compost and seed; to provide technology to growers and to facilitated marketing process of mushroom. This project completed in 1982 and thereafter department of horticulture of the state is providing assistance through supplying compost and training programmes to the growers and providing various subsidies. At the same time for the progress of mushroom cultivation in the state a number of units have been started for preparing compost so that growers in different districts can avail the facility of compost. On the other hand about 4300 trainees of state could be able to get training through horticulture department.

Yogesh (1999) reported in a paper Shulini Samachar that computer can play a better role for the production of mushroom. Computer is fully capable to indicate the situation of temperature, carbon dioxide and oxygen of the room where crop is grown. Further, it has also been mentioned that now Robot can be used against human labour in cultivation of Mushroom. In this regard programme of various works used to be fed in the computer so that Robot can be utilized for various type of works especially harvesting operation can be conducted through this system.

2.2 SUCCESS STORIES

2.2.1 Success Story of Vikas Banal

Vikas Banal born in Samlech village of district Solan in 1966. After getting the Masters degree in commerce from Himachal Pradesh University Shimla Banal preferred to establish a mushroom unit instead of migrating to urban area for seeking job. For the establishment of mushroom unit Banal invested Rs.6500 in 1991 and purchased 200 bags of mushroom compost for starting cultivation of white button mushroom at Solan. At present Banal is cultivating 2000 bags of compost and has started cultivation by air-conditioning the entire system which is the most suitable system for growing mushroom throughout the year. During last nine years Banal has gained popularity in the field of mushroom cultivation and has encouraged other youth of the area for joining in this enterprise for their livelihood. This way Mr. Banal has not only gained success himself but has been instrumental in the spread of the activity in district Solan. After a few years of successful operation he established his own pasteurisation unit for preparing compost. This is an example of vertical integration and now he is supplying compost regularly to the other growers. This has helped him not only in augmenting his income but has facilitated the adoption of mushroom cultivation by other farmers as they now don't have to depend upon the government source for compost. At present he has generated employment for about 10 persons in his unit and his father Sh. Mohan Lal looks very happy and satisfied with the achievements of his son.

2.2.2 Success Story of Koushalya Jinha

Koushalya born in rural area of Shimla district and after her marriage she generally used to think about generating income and employment through private enterprise so that she may help her husband and also this may act as an example for other rural people who may be motivated to generate their own livelihood. In 1981 she planned to cultivate mushroom crop in Shimla city where she could be able to collect mushroom compost easily from Solan about 60 km away from her unit. She also took into consideration the fact that Shimla city would provide her ready market. Initially she started cultivation of mushroom through 50 bags of compost but her continuous efforts and interest ultimately led her to production of quality mushroom in Shimla district. At present Koushalya is growing mushrooms in about more than 2000 bags. The venture ultimately turned out to be so successful that her husband, Sh. Mohan Jinha was compelled to join her in this enterprise by leaving his government job. Like Mr. Vikas she has now decided to go in for the production of compost. In fact, the construction work is under way in Ganahati, about 15 Kms. from Shimla. Koushalya has a secret desire to be able to provide compost to different new growers in Shimla district. And now she is about to materialise her dream. Her aim will definitely be achieved because Koushalya has created an environment for mushroom cultivation among all of her family members. Mr. Jinha expressed that once in the morning at 10.30 AM he was surprised to see 160 kg of mushrooms plucked by her wife which in fact is a job of two labourer. Her efforts for reaching to the top is really a matter of proud for all who are concerned with mushroom cultivation or even those who are not concerned with it. This is also a live example of the emerging women power in our society.

CHAPTER - III

METHODOLOGY

The present chapter includes study design, analytical methods, data collection and other related issues.

3.1 STUDY DESIGN

A complete list of registered growers indicated that there were 876 registered growers of mushrooms in the state by the end of December 1999. However, only 112 were actually engaged in mushroom production. There are also many unregistered mushroom cultivators who are also engaged in the activity. But no information on their number, location or scale of operation is available from any source. Thus, study design has been based only on the registered growers.

The data reveals that out of 112 registered growers who actually were growing mushrooms 49 were located in district Shimla, 55 in Solan six in Sirmour and only two in Bilaspur. Thus, districts Solan and Shimla were purposely selected for the detailed study. It was decided to draw a sample of 40 growers from each district. For this purpose in each of the districts, five locations were identified where maximum number of growers were located. These locations were identified with the help of officials of Horticulture department and Table 3.1 presents the details.

TABLE: 3.1 LOCATIONS IDENTIFIED FOR DETAILED STUDY.

	District Solan	District Shimla
S	Chambaghat	Kotkhai
LOCATIONS	Saproon	Theog
ĨĹ	Barog	Mashobra
О О	Oachghat	Sanjauli
Ľ	Basal	Shoghi

The requisite sample of 40 producers was selected randomly in district Solan but it was found that in Shimla the requisite number of 40 producers could not be contacted due to very thin spread of activity. In the above stated locations a sample of only 30 registered growers could be obtained. Thus, the study is based on 70 mushroom cultivators located in two districts and ten locations.

The sampled producers were divided in to three size classes on the basis of scale of the operation. The producers having less than 100 trays have been categorised as small, 101 to 250 trays as medium and those having more than 251 trays were categorised as large mushroom producers. During data collection it was found that almost all of the producers were using polyethene bags instead of wooden trays. In terms of input use and out put, it was determined that four polyethene bags are equivalent to one wooden tray. Accordingly, the polyethens bags were converted to wooden trays for the purpose of determination of their size class. The distribution of mushroom producers according to their scale of operation has been presented in Table 3.2.

DISTRICT	CATEGORY				
	SMALL	MEDIUM	LARGE	TOTAL	
SOLAN	12(30)	13(33)	15(37)	40(100)	
SHIMLA	10(33)	18(60)	2(7)	30(100)	
TOTAL	22(31)	31(44)	17(25)	70(100)	

TABLE: 3.2DISTRIBUTION OF MUSHROOM CULTIVATORS,
ACCORDING TO SIZE OF THE OPERATION.

NOTE: figures in parenthesis are percentages to total.

It may be seen from the table that 31 per cent cultivators belong to small category, 44 percent to medium and remaining 25 per cent belong to large category.

3.2 ANALYSIS OF DATA

Various concepts and analytical tools used have been described in this section.

3.2.1 Cost Concepts The costs A, cost B and cost C have been used and explained below:-

Cost A₁: Included value of hired labour, hired machinery charges, value of spawn, compost, insecticides and pesticides, water and electricity charges, depreciation on implements, interest on working capital etc.

Cost A₂ Cost A₁ + rent-paid for leased in shed/building

Cost B Cost A₂ + imputed rental value of own shed/building + interest on own fixed capital

Cost C Cost B + imputed value of family labour

3.2.2 Financial Efficiency The financial efficiency has been measured by using following ratios.

1. Capital Turn over Ratio: Measures efficiency of capital invested and is measured as

Capital turn over ratio = Gross Income /Fixed capital investment

- 2. Operating Ratio = Total operating & maintenance cost / Gross profit
- 3. Gross Ratio = Total cost of cultivation / Gross farm income
- Rate of Return on capital = Net farm income /Fixed capital investment

3.2.3 Production Function Analysis The production function analysis has been used in order to study the relationship of mushroom yield (exogenous variable) with total working capital and human labour (endogenous variables). The Linear Production function having following form was used:-

 $Y = aX_{1}^{b1}X_{2}^{b2}$

where

- Y = Mushroom yield
- $X_1 =$ Total working capital
- $X_2 =$ Human labour

a = Constant

b_i = Regression coefficients

The return to scale was calculated by adding up the elasticity coefficients i.e.

Returns to scale = $\sum_{i}^{2} bi$

The marginal value products (MVPs) have been computed as under

 $\mathsf{MPV}_{\mathsf{x}\mathsf{i}} =_{(biy / xi). Py}$

Where	b_i = Regression coefficient of	i th input
	Y = Geometric mean of output	
	x_i = geometric mean of i	input
and	$P_y = price of output$	

The MVP of factor cost ratio has been calculated as:

 $\begin{array}{rcl} \mathsf{MVP} \mbox{ of factor cost ratio } &= \mbox{ MVP}_{xi} / \mathsf{Px}_i \\ \mathsf{Where} & \mbox{ MVP } &= \mbox{ Marginal value product} \\ & \mbox{ MVP}_{xi} &= \mbox{ MVP of } i^{th} \mbox{ input} \\ & \mbox{ P}_{xi} &= \mbox{ Price of } i^{th} \mbox{ input} \end{array}$

Optimum Resource Use: The optimum level of inputs has been calculated as: $MPP x_i = Px_i / P_y$

3.3 DATA COLLECTION

The primary data was collected on a predesigned schedule which was pretested in order to know the short coming before hand. The data was collected by personal interview method by the trained and experienced investigators. The primary data has been supplemented by secondary data mainly from Directorate of Horticulture.

3.4. REFERENCE PERIOD Reference period of the study is 1999, calendar year.

CHAPTER – IV

CULTIVATION OF WHITE BUTTON MUSHROOMS

There are various types of mushrooms cultivated the world over. Out of these eight are important viz. button, oyster, straw, shiitake, woody ear, silver ear, winter and namekno which account for 99 per cent of total world production. In India, only three types of mushrooms viz. button, oyster and straw are commercially cultivated. Of these button mushrooms account for about 90 per cent of India's production, about 38 per cent of total world production of mushroom is bottom mushroom.

The white button mushrooms can be grown in the state around an altitude of 2000 M above MSL and it is possible to take five crops in a year. There are certain places in the state like Chail, Shimla, Mandi etc. where the cultivation is possible throughout the year except artificial heating during the winters. Three crops a year are possible in places like Kasauli, Dalhousi and Dharmasala and one to two crops are possible in places like Solan, Kotgarh, Palampur, Jagjeet Nagar etc.

The mushroom production is a complex process and requires special technical skills for raising the crops. For its growth it requires two type of temperatures, 23-28oc for spawn run or vegetative growth and 12-18oc for fruit body formation. The humidity during fructification should be 80-90 per cent with proper ventilation. The cultivation involves three basic steps.

- 1. Production or procurement of spawn
- 2. Preparation of compost
- 3. Production of crop.

The details of each of these steps have been presented in the following text.

4.1 PRODUCTION OR PROCUREMENT OF SPAWN

4.1.1 PROCUREMENT OF SPAWN

The spawn can be procured from the following sources within the state.

- 1. HPKVV, Palampur
- 2. Dr. Y.S. Parmar University of Horticulture & Forestry, Solan.
- 3. Mr. Chander Mehta, Pearless Quality spawn lab, saproon, Solan.

4.2 PRODUCTION OR PROCUREMENT OF SPAWN

Button mushroom like other plant species, require the seed for their cultivation which in this case is popularly known as spawn. Spawn is a pure culture of mushroom mycelium grown on a solid substrate such as cereal grains. Before the introduction of cereal grain spawn, the spawn was prepared on sterilised composted manure and was known manure spawn. In northern India most of the spawn is prepared on wheat grain while in south India Jawar is used as a substrate for spawn production. Though, there are number of methods for production of mushrooms i.e. tissue culture, multi spore culture and single spore culture but a typical method for making spawn from wheat grains is the popular one in Himachal Pradesh. In this concern method for preparation of substrate for spawn is as follows.

Clean whole grains are taken for the purpose. Broken grains would be avoided. The grains are permitted by boiling in water for 20-30 minutes. This raises the moisture content of the grains (about 50 per cent) and at the same time makes them soft enough for mycelium to grow on it. Boiling for a longer period will result in breaking of grains and they will become to soft and sticky which should be avoided. After boiling, excess water is drained off by spreading the grains on a wire mesh. Grains are now mixed with gypsum(calcium sulphate) and chalk powder (calcium carbonate) at the rate of 2 per cent and 0.5 per cent respectively on dry weight basis. More elaborately 10 kg of wheat grains will require about 200 gram gypsum and 50 gram chalk powder (Mehta and Kumar, 1988). This will help the check the Ph value of the medium and will prevent sticking of grains with one another. The grains are now filled in containers (glucose bottles or polypropylene bags) and mouth of the containers plugged with non absorbent cotton. These are then sterilised in an autoclave at 22 lb p.s.i pressure for 1 to 2 hours. This gives a uniform temperature of 126.5 c which is sufficient to kill bacterial and other contaminants which might spoil the culture afterwards. The grains are now allowed to cool to room temperature and inoculated with mushroom mycelium. From time to time different workers have given different formulations depending upon the availability of the basic raw materials. Formula given by mushroom research laboratory Solan for short method is as follows.

Wheat straw	1000 Kg.
Chicken Manure	400 Kg.
Brewers grain	72 kg.
Urea	14.5 kg.
Gypsum	36 kg.

For inoculation of grain spawn the mycelium grown on specific medium such as wheat extract agar is transferred to containers under sterile conditions and resulting spawn is called the master spawn. This master spawn is further used to inoculation of large number of bags, bottles and the resultant is commercial spawn. The commercial spawn is used for inoculating the compost beds. Now it becomes essential to discuss about the preparation of compost, which is the second major component for mushroom cultivation.

4.2 PREPARATION OF COMPOST

There are two methods i.e. long and short methods for preparation of compost. The long method of composting has many shortcomings hence, to overcome these shortcomings, Sinden and Hauser (1950,1953) came out with a noval method which is termed as short method of composting in which the compost is ready in about 16-20 days as compared to 28 days in long method. Compost obtained by such a method is free from the disease and pests and gives 18-25 kg mushrooms from every 100 kg of compost. Short method of composting primarily consists of two parts, out door composting for 10-20 days (Phase-1) followed by pasteurisation and conditioning of the compost inside an insulated room by free circulation of steam and air under set conditions (Phase-II). The main purpose of conditioning/pasteurisation is to kill or inactivate insects, pests and other competitors which may, if present, hamper the spawn run and reduce the yield.

Steam pasteurisation is done in a well insulated room designed for the purpose. This process of pasteurisation completed in an insulated room where walls, roof, ducts, which carry steam, and doors are insulated by proper insulating material. Boiler is required to produce the steam while a blower is needed to below air. The 'short method' of composting was introduced in India, by Hayes and shandilya in 1977. It is completed in two stages. In first phase all the ingredients are allowed to ferment under uncontrolled conditions for 10-12 days. After giving turning to various components 3 times in 6 days and adding Gypsum, the compost gets ready for pasteurisation for IInd phase. To start the procedure, firstly the peak heating room is heated with dry heat to bring the temperature of the room to around 48oc. After that compost from phase one is immediately transferred to minimise the heat losses in transit. All the doors and ventilators are closed and fan is switched on for two hours, to have uniform distribution of air on the second day live steam is introduced in the room to raise the temperature to 48-52°C. This temperature is maintained for 2-4 days. After that fresh air is introduced for 15-20 minutes then all the doors and ventilators are closed and steam is injected to raise the temperature to 58-60° C for 4 hours. Steam supply is then cut off and fresh air is gradually introduced in the

room to lower the temperature in the room. Temperature of the room is maintained at 48 to 52° C for 4 days. This temperature is maintained for the conditioning of the compost. During this period compost is generally freed from ammonia and compost temperature is further reduced to 24° C by introduction of fresh air. If there is no smell of ammonites it is ready for the spawning.

4.3 PRODUCTION OF CROP

Mushroom cultivation is still done seasonally under natural conditions in India. There are two systems of cultivation of mushroom in India i.e. cultivation in wooden trays and polythene bags. Due to shortage and control on wood cutting, bag cultivation has proved very suitable because of its easy availability, low cost, being easily disposable and due to very low threat of contamination due to use of fresh bags every time. A polythene bag of 35"x24" of 150 gauge thickness is large enough to accommodate 15.20 kg compost up to a depth of 30-37 cm. These bags after filling are kept in the growing rooms in racks. Five modern mushroom farms use shelf system for cultivation of crop of 72 days duration each. In Himachal Pradesh number of crops vary as per the climate and availability of technology, which results into various levels of production in different pockets where mushroom is cultivation.

4.4 SPAWNING

The process of mixing spawn (seed) in fully prepared compost is called spawning. Four main methods of spawning have frequently been used with grain spawn i.e. spot spawning, surface spawning, layer spawning and 'through' or mixed spawning. The last method is the most efficiently and widely used method and gives and early and uniform spawn run. For proper growth of crop, recommended dose of spawn is, 500gms to 750gms for 100 kg of compost. After spawning, the beds are pressed gently to have uniform surface. The best temperature for the growth of mycelium in compost is about 23⁰ C. During winters it may become necessary to heat the rooms with dry heat/stream to bring the room temperature within this range. Heating with steam is a better alternative as steam has high latent heat of vaporization and will also maintain the humidity in the room. During summer however, cooling is required to bring the room temperature to optimum level for mycelial growth of button mushrooms. The temperature of the compost should not be allowed to go beyond 30°C. Sufficient air should be circulated in the spawn running room to obtain uniform temperature throughout the room. As soon as the spawned compost gets the right temperature, the spawn grain becomes fluffy and mycellium starts to grow into the compost. Growth of mycelium in compost can be visualized in the form of circular spread of whitish silky mycelial threads spreading on all sides from grain spawn, 4 to 5 days after spawning. If the optimum conditions have been provided it takes about 12-15 days for compost to be fully impregnated with the mycelium.

4.5 CASING AND CROP MANAGEMENT

To introduce fruit body formation the compost surface has to be covered with a layer of casing soil. The process of applying casing layer over the compost bed is called 'Casing' of mushroom beds. It is normally believed that mushrooms do not fruit unless some stress is provided. There are however other reasons also which necessitate the application of casing soil on compost beds, which are:

- (1) Casing supplies water for growth and development of fruit bodies and regulates the flow of nutrients from compost to developing fruit bodies;
- (2) It prevents compost surface from drying out and act as a blanket;
- (3) The casing soil provides physical support to growing fruit bodies etc.

For preparation of casing peat is a universally accepted medium of mushroom cultivation. But, in Himachal Pradesh due to non-availability of peat a mixture of 2 years old farm yard manure and loam soil in the ratio of 2:1 is to be used for preparation of casing. for killing various pests and disease, casing soil is treated chemically or pasteurised with steam and casing layer about 3-4 cm thick is applied uniformly over the entire surface of compost. Application of casing takes place after the mycelium has completely colonized the compost.

Temperature of the cropping room is maintained 23 ± 2^{0} C for about a week to allow the mushroom mycelium to spread into casing layer. A very light spray of formalin is given after the casing has been done over the surface of casing soil. Normally after casing, the mycelium takes 7 days for spreading in casing soil before the fruit body formation starts. Casing soil provides moisture to growing fruit bodies therefore it is essential to keep the casing layer moist. This can be achieved by frequent watering of casing layer. Water is sprayed with the help of an ordinary foot sprayer in the form of mist. In about a week's time mycelium spreads in the casing soil. Now the stage comes when temperature toward to 14-18 C. Fruit body initials, which appear in the form of pinheads start growing and gradually developed into button stage. Harvesting is done at the button stage i.e. before caps expands and gills are closed. Open mushrooms are not accepted by consumer due to inferior quality and shorter shelf life.

Mushrooms are picked or harvested by gently holding the mushroom between the thumb and fingers, twisting slightly and gently pulling out. Lower position of the fruit body where mycelium threads and soil particles adhere is cut and discarded and the upper position is kept for human consumption.

CHAPTER - V

GOVERNMENT SCHEMES FOR DEVELOPMENT OF MUSHROOMS IN HIMACHAL PRADESH

The government of Himachal Pradesh has been providing various incentives to marginal and small farmers, scheduled caste and schedule tribe families. Such incentives are being provided under Mushroom Project, Chambaghat (Solan) for the districts Solan, Shimla and Sirmour and under Indo-Dutch Project, Palampur for districts Kangra, Mandi, Chamba and Hamirpur. The following incentives are available.

5.1 TRAINING

In order to provide technical know-how to farmers, ten day training programmes are organised by department of Horticulture, Himachal Pradesh. Such programmes are organised from time to time. The participants of such programmes belonging to the state are given training allowance at the rate of Rs. 50.75 per day.

5.2 REGISTRATION

The cultivators who are desirous of getting themselves registered with department of Horticulture are registered according to the category they belong to. It is necessary for the persons who have obtained training and belonging to H.P. to get themselves registered according to their category (like SC,ST etc.). For getting themselves registered a person has to obtain the certificate of being bona fide resident of H.P., certificate of his category from SDM office and submit these along with the training certificate to the department of Horticulture, H.P. Mushroom Project. After this they are issued a registration number. This number is important for getting compost or spawn and claiming subsidy on these.

5.3 BANK LOANS

The registered mushroom cultivators are recommended by the govt for obtaining loans from nationalised banks. Under this scheme a loan of Rs.35,000/- is recommended for the construction of mushroom house for accommodating 100 trays. Under this scheme a subsidy of 10 per cent subject to the maximum of Rs. 3500/- is admissible to SC & ST, magical and small farmers. A subsidy of 3 per cent is also available on the bank interest. The state department of civil supply provides consent, steel etc. on priority for construction of mushroom houses.

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5.4 SUBSIDY

The registered SC and ST mushroom growers are eligible for a subsidy of 50% on the purchase of compost. The extent of subsidy on this account for marginal and small farmers and unemployed graduates is 25 per cent. Hundred percent subsidy is available for transportation subjected to the maximum of 400 trays.

5.5 TECHNICAL KNOW-HOW

Since mushroom cultivation is highly technical and skilled job it is essential that they get technical know-how. The technical officers provide the required knowledge to farmers by visiting their mushroom houses. Any problem is solved on the spot and guidance is provided by the officers on their visits.

5.6 MODEL BANKABLE PROJECT ON BUTTON MUSHROOM FOR EXPORT

The National Bank for Agriculture and Rural Development (NABARD) has prepared a 'Model Bankable Project on Button Mushrooms for Export' for refinance to commercial banks. The Bank accords top priority to this activity for providing refinance support to the turn of 90 per cent. The interest rate charged by NABARD for such refinance is 40 per cent less than the financing banks interest rate charged from the entrepreneur. The total cost of the project is Rs.213.32 lakhs including working capital for one year. The repayment of the loan starts from second year. It has been estimated that the Benefit-Cost Ratio (BCR) of the project at 15% rate is 1.31 and Internal Rate of Return (IRR) of 31 per cent.

CHAPTER -VI

SOCIO-ECONOMIC BACK GROUND OF MUSHROOM FARMERS IN H.P.

The present chapter intends to provide insight into the socio-economic background of mushroom farmers in the state. The socio-economic parameters form the basis for the production efficiency. These parameters have been discussed in the following text.

6.1 FAMILY SIZE

The family size forms the basis for determination of working force available for farm activities. Though it is affected by the occupational structure and age composition etc., it still remains the starting point. The average family size of the sampled farmers has been presented in Table 6.1 and it is 5.95 persons per family at overall level. The family size is higher in Shimla (5.63). Among different categories the highest family size is among medium farmers (6.32).

TABLE: 6.1	AVERAGE FAMILY SIZE OF MUSHROOM
	CULTIVATORS

DISTRICT	CATEGORY						
	SMALL MEDIUM LARGE ALL FARMS						
SOLAN	6.25	6.92	5.53	6.20			
SHIMLA	5.10	5.88	6.00	5.63			
OVERALL	5.72 6.32 5.58 5.95						

6.2 EDUCATIONAL LEVEL

The literacy levels and more importantly the formal education plays a great role in opening the minds of people to venture into the new fields. About 91 per cent of the persons at overall level were observed to be literate and of them about 11 per cent had obtained some formal qualifications. This percentage was almost same in both the districts. It was personally observed during data collection that those entrepreneurs who graduates or attended colleges, were doing very good business and had expended their level of production many times since the humble beginning with equivalent of 100 trays (400 bags). This clearly indicates the importance of education especially in such unconventional and highly technical vocation like mushroom cultivation.

(NO.)

PARTICULAR S	CATEGORY						
	SMALL	MEDIUM	LARGE	ALL FARMS			
	SOLAN						
ILLETERATE	4.11	14.94	9.88	9.96			
LITERATE	60.27	73.56	90.12	75.10			
FORMALLY	35.62	11.49	0.00	14.94			
EDUCATED							
TOTAL	100.00	100.00 100.00 100.00		100.00			
		SHIMLA					
ILLETERATE	5.88	7.00	0.00	6.13			
LITERATE	82.35	93.00	0.75	88.34			
FORMALLY	11.76	0.00	0.25	5.52			
EDUCATED							
TOTAL	100.00	100.00	100.00	100.00			
		OVERALL					
ILLETERATE	4.91	10.33	8.71	8.32			
LITERATE	70.32	84.85	79.61	80.77			
FORMALLY	24.77	4.82	0.04	10.91			
EDUCATED							
TOTAL	100.00	100.00	100.00	100.00			

TABLE: 6.2EDUCATIONAL LEVEL OF FAMILY MEMBERS OF
MUSHROOM CULTIVATORS.

6.3 OCCUPATIONAL PATTERN

The occupation pattern of all the workers was analysed and it was revealed that despite all of the sample being those of mushrooms farming households, only 21.60 per cent persons were engaged in mushroom production (Table 6.3) at overall level. The agriculture still remains the largest employees with about 62 per cent workers engaged in it. About 9 and 7 per cent workers at overall level had their main occupation as being employed in various govt. departments and trade/business respectively. The category wise analysis indicates that small and large mushroom cultivators had about 23 per cent of their work force had mushroom farming as their main occupation. This percentage was slightly lower in case of medium mushroom farmers. The district wise position may also be referred to from this table.

(%)

CATEGORY	OCCUPATION					
	AGRI.	SERVICE	TRADE	MUSHRO OM	NO. OF WORKE	
				FARMING	R	
		SOLAN	1			
SMALL	53.06	16.33	6.12	24.49	49	
MEDIUM	66.15	9.23	4.62	20.0	65	
LARGE	60.32	11.11	4.76	23.81	63	
TOTAL	60.45	11.86	5.08	22.60	177	
		SHIML	4			
SMALL	62.22	8.89	6.67	22.28	45	
MEDIUM	65.59	5.38	9.68	19.35	93	
LARGE	60.00	0.00	20.00	20.00	10	
TOTAL	64.19	6.08	9.46	20.27	148	
OVERALL						
SMALL	57.22	12.95	6.37	23.47	94	
MEDIUM	65.83	6.99	7.56	19.62	158	
LARGE	60.28	9.81	6.55	23.36	73	
TOTAL	62.06	9.38	6.96	21.60	325	

TABLE: 6.3OCCUPATIONAL PATTERN OF MUSHRROOM
CULTIVATORS (MAIN OCCUPATION)

6.4 SUBSIDIARY OCCUPATION

It was observed that out of 325 workers 263 also had some subsidiary occupation. The largest number (53.75%) has mushroom farming as their subsidiary occupation and the rest, 46.78 per cent were helping in agriculture (Table 6.4). No person had service or trade as their secondary occupation. The district level analysis indicated very small variations in these figures.

(NO.)

TABLE: 6.4OCCUPATIONAL PATTERN OF MUSHROOM
CULTIVATORS (SUBSIDIARY OCCUPATION)

(NO.)

CATEGORY		00	CUPATION		
	AGRI.	SERVICE	TRADE	MUSHRO OM FARMING	NO. OF WORKE RS
		SOLAN			
SMALL	50.00	0.00	0.00	50.00	46
MEDIUM	44.00	0.00	0.00	56.00	50
LARGE	44.64	0.00	0.00	55.36	56
TOTAL	46.05	0.00	0.00	51.95	152
		SHIMLA			
SMALL	50.00	0.00	0.00	50.00	34
MEDIUM	46.38	0.00	0.00	53.62	69
LARGE	50.00	0.00	0.00	50.00	8
TOTAL	47.75	0.00	0.00	52.25	111
		OVERALI	_		
SMALL	50.00	0.00	0.00	50.00	80
MEDIUM	43.96	0.00	0.00	56.04	119
LARGE	45.27	0.00	0.00	54.73	64
TOTAL	46.78	0.00	0.00	53.75	263

6.5 OFF FARM INCOME

The mushroom farmers have been deriving off-farm income from two sources viz. govt. job and trade/business. It was found that each family at overall level, derived an annual income of Rs.44,243/- (Table 6.5). The off-farm income was found to be directly related to category of household. The off-farm in district Solan was substantially higher (Rs.53,325/year/H.H.) as compared with Shimla where it was only Rs.32,133/H.H./year.

TABLE: 6.5OFF-FARM INCOME GENERATION.

				(Rs.//	ANNUM/H.H.)
DISTRICT		CATE	GORY		
	SMALL	MEDIUM	LARGE	OVERALL	
		_		_	
SOLAN	10,000	51,000	90,000	53,325	
SHIMLA	8,000	42,000	64,000	32,133	
OVERALL	9,094	45,774	86,941	44,243	

6.6 LOCATION OF FARMS

All the farms were located either on road head or very near to it. Table 6.6 reveals that average distance of farm from road head is 0.29 kms for overall sample and was 0.26 kms for Solan and 0.32 kms for Shimla district. The smaller the category, greater was the distance. It may have been due to the reason that the mushroom farmers located on or very near to road head might have expended the scale of operation and with the time may have come into large category of farmers.

(Km)

DISTRICT	CATEGORY			
	SMALL	MEDIUM	LARGE	OVERALL
SOLAN	0.41	0.28	0.12	0.26
SHIMLA	0.47	0.30	0.15	0.32
OVERALL	0.44	0.26	0.13	0.29

TABLE: 6.6LOCATION OF FARM (AVERAGE DISTANCE FROM
ROAD HEAD).

6.7 LAND RESOURCES

The land resources owned by the sampled farmers have been presented in Table 6.7 where in it may be seen that each household at overall level own 1.97 Ha. of land of which 1.20 Ha. is cultivated. The land resources in Solan were considerably higher 2.79 Ha per household of which 1.28 Ha are under plough, as compared with Shimla where these figures stand at 0.87 Ha and 0.59 Ha respectively. The large mushroom farmers have the highest amount of land followed by small and medium (It may be recalled here that present categorisation is on the basis of scale of mushroom cultivation and not on amount of land).

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PARTICULARS		CATEGORY		OVERALL
	SMALL	MEDIUM	LARGE	
		SOLAN		
TOTAL LAND	2.42	2.10	3.67	2.79
CULT. LAND	1.11	0.97	1.69	1.28
		SHIMLA		
TOTAL LAND	0.79	0.84	1.60	0.87
CULTI. LAND	0.56	0.52	1.28	0.59
		OVERALL		
TOTAL LAND	1.68	1.37	3.43	1.97
CULTI. LAND	0.86	0.71	1.64	1.20

TABLE: 6.7 LAND RESOURCES OF SELECTED MUSHROOMCULTIVATORS.

(Ha./Farm)

6.8 CROPPING PATTERN

The study of cropping pattern (Table 6.8) reveals that during kharif season maize and tomato are the main crops, 0.28 and 0.23 Ha. of area devoted for these by each household at overall level. The potato accounts for other 0.10 Ha. The number of crops during rabi season are more and most important, from area allocation points of view is wheat accounting for 0.28 Ha. per farm. This is followed by peas (0.22 Ha.) and cabbage (0.10 Ha.). Barley and cauliflower each accounted for 0.05 Ha on each farm. Tomatoes are not grown on sampled farms of Shimla in higher area allocation for potato (0.16 Ha.) was observed. In comparison, peas are not cultivated by the Solan farmers. Other details may also be referred to from the table.

PARTICULARS		CATEGORY		OVERALL
	SMALL	MEDIUM	LARGE	
		SOLAN		
KHARIF				
1. Maize	0.58	0.36	0.53	0.49
2. Potato	0.07	0.04	0.08	0.06
3.Tomato	0.36	0.36	0.46	0.40
RABI				
1. Wheat	0.64	0.36	0.44	0.47
2. Barley	0.07	0.04	0.09	0.07
3.Cauliflower	0.05	0.00	0.17	0.08
4. Cabbage	0.04	0.00	0.19	0.08
5.Peas	0.25	0.37	0.28	0.00
	1	SHIMLA	1	
KHARIF				
1. Maize	0.03	0.12	0.00	0.01
2. Potato	0.24	0.00	0.16	0.16
3. Tomato	0.00	0.00	0.00	0.00
RABI				
1.Wheat	0.04	0.00	0.00	0.01
2. Barley	0.06	0.00	0.00	0.02
3. Cauliflower	0.00	0.03	0.00	0.02
4. Cabbage	0.13	0.11	0.16	0.12
5. Peas	0.04	0.15	0.16	0.11
	ſ	OVERALL	Γ	
KHARIF	0.00		0.40	
1. Maize	0.33	0.15	0.46	0.28
2. Potato	0.14	0.08	0.09	0.10
3. Tomato	0.19	0.15	0.40	0.23
RABI				
1. Wheat	0.37	0.15	0.39	0.28
2. Barley	0.06	0.02	0.08	0.05
3. Cauliflower	0.02	0.02	0.15	0.05
4. Cabbage	0.08	0.06	0.18	0.10
5. Peas	0.16	0.24	0.26	0.22

TABLE: 6.8 CROPPING PATTERN ON THE FARMS OF SELECTED
MUSHROOM CULTIVATORS.

(Ha/Farm)

6.9 PRODUCTION PATTERN

The production pattern of different crops indicates the availability of such produce for home consumption or disposal in the market, which is the main purpose of cash crops like vegetables, production. The production pattern on the farms of different categories of mushroom farmers has been presented in Table 6.9. It may be seen from the table that at overall level 4.30 Qtls. of maize is produced on an average farm, which is primarily meant for home consumption. The

other two kharif crops viz. potato and tomato are mainly disposed of in the market and their production is 6.98 Qtls and 5.97 Qtls per farm respectively. During rabi season each farm at overall level produce 4.60 Qtls. of wheat and 0.69 Qtls. of barley. The other crops are vegetable crops. The production of cauliflower, cabbage and peas was found to be 4.12, 5.55 and 8.34 Qtls per farm respectively at overall level. The analysis further indicates that per farm production of maize was higher in Solan and Potato in Shimla. The sampled farmers of Shimla were not cultivating tomato at all. The per farm production of all crops was higher in Solan except cabbage. The production pattern of different categories in both the districts as well as at overall situation has also been presented in this table.

6.10 LIVESTOCK PROFILE

The livestock profile for the sampled mushroom farmers has been presented in Table 6.10 wherein it may be seen that at overall level each farmers has on an average 1.51 cows, 0.75 buffaloes and 0.80 heads of other livestock. This gave them an income of Rs.19237 per year. The number of livestock in district Solan are higher them Shimla and so is the income from reasing livestock which has been Rs.23916 and Rs.12998 per year respectively.

6.11 CONCLUSIONS

It may be concluded from the above that the family size in Solan was higher than is Shimla but so is the income desired from other sources. Shimla has higher percentage of literates but lower percentage of persons who are formally educated. Agriculture is the main occupation of majority of persons and mushroom cultivation the subsidiary occupation. All the farms were either on the road head or very near to it. The land resources, total as well as cultivated land were higher with respondents from Solan. All the mushroom farmers were growing vegetables on their farms. As such the mushroom cultivation can be said to be an activity adopted only by the progressive farmers.

PARTICULARS		CATEGORY		OVERALL
	SMALL	MEDIUM	LARGE	
		SOLAN		
KHARIF				
1. Maize	11.33	6.46	5.20	7.45
2. Potato	4.75	2.00	5.00	3.95
3. Tomato	25.75	28.23	29.46	27.95
RABI				
1. Wheat	10.41	6.15	7.60	7.97
2. Barley	1.07	6.92	1.40	1.07
3. Cauliflower	4.08	0.00	13.80	6.40
4. Cabbage	1.92	0.00	11.67	4.95
5. Peas	9.50	13.15	10.75	11.15
		SHIMLA		•
KHARIF				
1. Maize	0.30	0.00	0.00	0.10
2. Potato	18.0	7.28	10.0	11.03
3. Tomato	0.00	0.00	0.00	0.00
RABI				
1. Wheat	0.30	0.00	0.00	0.10
2. Barley	0.60	0.00	0.00	0.20
3. Cauliflower	0.00	1.83	0.00	1.10
4. Cabbage	8.40	5.05	8.00	6.36
5. Peas	2.50	5.38	8.00	4.60
		OVERALL		
KHARIF	_			
1. Maize	6.31	2.70	4.58	4.30
2. Potato	10.77	5.06	5.58	6.98
3. Tomato	14.04	11.83	26.00	5.97
RABI				
1. Wheat	5.81	2.58	6.70	4.60
2. Barley	0.85	0.29	1.23	0.69
3. Cauliflower	2.22	1.06	12.17	4.12
4. Cabbage	4.86	2.93	11.23	5.55
5. Peas	6.31	8.64	10.41	8.34

TABLE: 6.9 PRODUCTION PATTERN ON THE FARMS OF
SELECTED MUSHROOM CULTIVATORS.

(Qtls./Farm)

TABLE: 6.10LIVESTOCK PROFILE ON THE FARMS OF SELECTED
MUSHROOM CULTIVATORS.

(NO./FARM)

LIVESTOCK		CATEGORY		OVERALL
	SMALL	MEDIUM	LARGE	
		SOLAN		
COWS	2.25	2.30	1.86	2.12
BUFFALOES	1.75	0.92	0.46	1.00
OTHERS	0.91	0.92	0.80	0.87
INCOME (RS/YEAR/ FARM)	24367	23695	23746	23916
,		SHIMLA		
COWS	0.50	0.83	0.50	0.70
BUFFALOES	0.40	0.44	0.50	0.43
OTHERS	0.50	0.83	0.50	0.70
INCOME (RS/YEAR/FAR M)	10382	14562	12000	12998
		OVERALL		
COWS	1.45	1.45	1.70	1.51
BUFFALOES	1.13	0.64	0.47	0.75
OTHERS	0.72	0.87	0.76	0.80
INCOME (RS/YEAR/FAR M)	18010	18392	22364	19237

CHAPTER -VII

ECONOMICS OF MUSHROOM CULTIVATION

The profitability of an enterprise is a result of inter-relationship between the costs and returns. The level of each determines the net flow of cash to farm to be used for on farm investments or consumption by farm families or to build up cash reserves. The two aspects have to be dealt separately for enhancing the net profits. In present chapter the costs and returns from mushroom cultivation have been analysed to work out the economics of this venture on different categories of farms in both the district and at overall level as well. An attempt has been made to present different costs involved and pattern of output and returns. The nature of costs stems out from type and extent of inputs used and the returns from the quantum of output.

7.1 TYPE OF MUSHROOMS

The National Research Centre from Mushrooms, Solan has propagated the cultivation of white bottom mushrooms (Agaricus bisporus) as a result the cultivation of only this type of mushrooms has caught on. Table 7.1 reveals that all the sampled mushroom cultivation's were growing only white bottom mushroom.

TABLE:7.1TYPE OF MUSHROOM GROWN.

TYPE		CATEGORY		OVERALL
	SMALL	MEDIUM	LARGE	
		SOLAN		
WHITE BUTTON	100.00	100.00	100.00	100.00
OTHERS	0.00	0.00	0.00	0.00
		SHIMLA		
WHITE BUTTON	100.00	100.00	100.00	100.00
OTHERS	0.00	0.00	0.00	0.00
OVERALL				
WHITE BUTTON	100.00	100.00	100.00	100.00
OTHERS	0.00	0.00	0.00	0.00

(%)

7.2 TYPE OF BUILDING

The mushroom farming is an indoor activity because of strict temperature and humidity requirements, which can only be regulated indoors. Thus, this activity has to be carried out with in the buildings, residential or constructed separately for the specific purpose of mushroom farming. The enquiries revealed, that majority of mushroom farmers began with the cultivated in some room, usually unused, in the residential house, but later due to profitability of the venture, constructed separate buildings for the purpose. Table 7.2 reveals that all the sampled mushroom farmers have been cultivating mushroom in a separate building in district Solan. Such buildings are invariably cemented. The situation is almost similar in Shimla except that three medium farmers have been using mud plastered buildings for the cultivation. At overall level cent percent farmers were using separate buildings of which about 96 per cent were cemented. This indicates that farmers have been using the venture quite profitable and has generated enough income to enable them to invest in separate cemented buildings for the production of mushrooms.

-					(%)	
CATEGOR Y	CULTIV	ATION IN	ТҮ	PE OF BUILD	OF BUILDING	
	SEPARAT E BUILDING	RESIDENTI AL HOUSE	CEMENTE D	MUD PLASTER ED	TENTS/GRE EN HOUSE	
		SO	LAN			
SMALL	100.00	0.00	100.00	0.00	0.00	
MEDIUM	100.00	0.00	100.00	0.00	0.00	
LARGE	100.00	0.00	100.00	0.00	0.00	
OVERALL	100.00	0.00	100.00	0.00	0.00	
		SHI	MLA			
SMALL	100.00	0.00	100.00	0.00	0.00	
MEDIUM	100.00	0.00	83.33	16.17	0.00	
LARGE	100.00	0.00	100.00	0.00	0.00	
OVERALL	100.00	0.00	90.90	9.10	0.00	
		OVE	RALL			
SMALL	100.00	0.00	100.00	0.00	0.00	
MEDIUM	100.00	0.00	90.32	9.68	0.00	
LARGE	100.00	0.00	100.00	0.00	0.00	
OVERALL	100.00	0.00	95.71	4.29	0.00	

7.3 AREA DEVOTED FOR CULTIVATION OF MUSHROOM

Although, the quantum of production can be increased by housing the activity in a separate building, the main consideration is the area available and devoted for the cultivation. The analysis in this regard indicates that each farmer was devoting about 131 Sq. Meters of area for cultivation at overall level (Table 7.3). The area devoted does not necessarily means the floor area of the building as cultivation is carried out on racks having 3-5 tiers. The farmers of Solan had devoted considerably larger area (175.37 sq. M) as compared with Shimla farmers who had devoted an average of 73.46 Sq. Meters for the purpose. The small farmers at overall level had devoted only 33 Sq. Meters area which increased to 68.45 Sq. Meters in case of medium and 370.58 Sq. Meters, in case of large farmers.

				(SQ.METEI	RS/H.H.)
DISTRICT		CATE	GORY		
	SMALL	MEDIUM	LARGE	OVERALL	
SOLAN	31.50	68.23	383.33	175.37	
SHIMLA	34.80	68.61	275.00	73.46	
OVERALL	33.00	68.45	370.58	130.68	

TABLE: 7.3 AREA DEVOTED FOR CULTIVATION OF MUSHROOM

7.4 NUMBER OF POLYTHENE BAGS

After the analysis of area devoted for the cultivation of mushrooms, it was thought to be pertinent to include the number of trays or bags used for the cultivation. The analysis revealed that none of the sampled farmers were using the wooden trays for the purpose (Table 7.4). The reason was the comparative economics. The wooden trays were reported to be costly and lasted only for two years. The capacity of wooden tray has been reported to be four times that of the polythene bags, which have 10-12 kgs of compost. The analysis indicates that at overall level each farmer had about 1184 polythene bags. The small farmers were using about 297 bags, the medium 618 and the large about 3365 bags at overall level. The average number of bags in Solan was far more (1590) as compared with Shimla farmers where number was only 643.

PARTICULARS		CATEGORY				
	SMALL	MEDIUM	LARGE	OVERALL		
		SOLAN				
WOODEN TRAYS	-	-	-	-		
POLYTHENE BAGS	283.33	615.38	34.80	1590		
TOTAL	283.33	615.38	34.80	1590		
		SHIMLA				
WOODEN TRAYS	-	-	-	-		
POLYTHENE BAGS	174.44	619.44	25.00	643		
TOTAL	174.44	619.44	25.00	643		
	(OVERALL				
WOODEN TRAYS	-	-	-	-		
POLYTHENE BAGS	297.27	617.74	3364.70	1184.14		
TOTAL	297.27	617.74	3364.70	1184.14		

TABLE: 7.4 NUMBER OF WOODEN TRAYS AND POLYTHENE BAGS USED.

Note: Capacity of 1 polythene bags = 10-12 KG

7.5 COST OF CULTIVATION

The cost of cultivation of mushrooms has been worked for an average farm and per bag basis. Further cost A, B and C have been worked out and presented in Table 7.5. It may be seen from the table that cost A and B are almost same and were about Rs.50.50 per bag and B about Rs. 59806 per farm at overall level. The cost C for overall sample was Rs. 75544 per farm and Rs.63.80 per bag. The highest cost was observed to be in case of medium farmers followed by small and large. Similarly, the cost C was higher for Shimla farmers, Rs.65.99 per bag as compared with Rs. 63.13 per bag for Solan. However, the situation reverses if per farm basis is considered, the cost being Rs.100377 in Solan and Rs.42431 in Shimla. The cost of cultivation per bag, which is more relevant indicates that farms located in district Solan are generally more efficient them those of Shimla.

TABLE: 7.5 COST OF CULTIVATION OF MUSHROOMS.

					(RS.)	
CATEGORY	COST A F	PER COST	B PER	COST	ГС PER	
		FARM]
		890083				
		12516				
SMALL	10545	35.46	-		10570	3 - 1 6 - • 3 4 - 3 4 - 5 9 5 N 0 8 0 8 . 3 . E 0 . 0 . 5 9 2 E 5 6 7 6 4 5 3 I 4 5 1 8 N

٠

7.6 COST OF PRODUCTION

The cost of mushroom production has been presented in Table 7.6 indicating that cost of producing mushroom in the State has been Rs.23.83 per kg. The cost was lower in Solan (Rs.23.08/Kg) as compared with Shimla (Rs.26.51/kg) again indicating the efficient operations and management by Solan farmers. The large farmers at overall level appeared to be most efficient registering Rs.22.87/kg as cost of production and medium the most inefficient having Rs. 26.41/kg as cost of production which being highest. Almost similar pattern was observed in both the districts.

				(RS./KG.)
DISTRICT	CATEGORY			
	SMALL	MEDIUM	LARGE	OVERALL
SOLAN	24.59	25.39	22.65	23.08
SHIMLA	25.29	27.16	25.73	26.51
OVERALL	24.95	26.41	22.87	23.83

TABLE: 7.6COST OF PRODUCTION OF MUSHROOM.

7.7 PRODUCTION PATTERN

The production pattern of mushrooms depends upon number of crops grown in a year and number of harvests. The farmers were observed to be taking two crops a year except for the large farmers of Shimla who were taking three crops a year. The number of harvests or pickings depends upon the maturity of individual fruits and market demand. It was observed that during the tourist season in Shimla, the farmer tend to increase the number of pickings as they did not want to wait for taking advantage of good prices. The details have been presented in Table 7.7. It may be seen from the table that number of harvests were 73 for overall level in Solan and for the individual categories this figure was 70,74 and 75 for small, medium and

large farmers respectively. In Shimla number of harvests were 75,76 and 102 for small, medium and large farmers. The abnormal high figure for large category is due to additional crop this category is taking. The average number of harvests in Shimla was 7.7. At overall level of the state, the average number of harvests were 75 and for individual categories these were 73,75 and 78 for small, medium and large categories respectively. The average production per harvest was higher (116.55 kg) in Solan as compared with only 40.12 kg per harvest per farm in Shimla. At overall level per harvest production was 83.79 kg per farm. The table further presents the percentage of different grades of mushrooms in total production. At overall level about 69 per cent of the produce belonged to grade 'A', about 23 per cent to 'B' and the rest about 8 per cent to grade 'C'. The percentage of 'A' and 'B' grade produce was higher in Solan than Shimla. The details in this respect may be referred from the table.

TABLE: 7.7 PRODUCTION PATTERN OF MUSHROOM AT SAMPLED FARMS.

(Per Farm)

PARTICULAR S• CATEGOR
Y CATEGORY
● ● ● SMALL● ● ● SMALL●
• SMALL• ME
DIUM• LARG E• OVERALL
• • SOLAN• • SMALL• MED
IUM• LARGE
● OVERALL● MEDIUM● LA
RGE• OVERA
LL• • SOLAN • • NO.OF
HARVESTS/Y EAR● 70● 74
• 75• 73• • A
V.PROD./HA RVEST(KG.)
• 20.23• 44.3
8• 256.17• 11 6.55• • % OF
GRADE A LARGE• OVE
RALL. • SOL
AN● ● NO.OF HARVESTS/Y
EAR ● 70● 74
• 75• 73• • A V.PROD./HA
RVEST(KG.) • 20.23• 44.3
8• 256.17• 11
6.55• • % OF GRADE A
OVERALL• •
• SOLAN• • N O.OF
HARVESTS/Y EAR• 70• 74
• 75• 73• • A
V.PROD./HA RVEST(KG.)
• 20.23• 44.3
8• 256.17• 11

6.55• • % OF
GRADE A
SOLAN• • NO
.OF
HARVESTS/Y
EAR● 70● 74
• 75• 73• • A
V.PROD./HA
RVEST(KG.)
• 20.23• 44.3
8• 256.17• 11
0•200.17•11
6.55• • % OF
GRADE A
• NO.OF
HARVESTS/Y
EAR● 70● 74
• 75• 73• • A
V.PROD./HA
RVEST(KG.)
• 20.23• 44.3
8• 256.17• 11
6.55• • % OF
GRADE A
NO.OF
HARVESTS/Y
EAR ● 70● 74
• 75• 73• • A
V.PROD./HA
RVEST(KG.)
• 20.23• 44.3
8• 256.17• 11
6.55• • % OF
GRADE A
70• 74• 75• 7
3• • AV.PRO
D./HARVEST(
KG.) • 20.23•
74• 75• 73• •
75∙ 73• • AV .
PROD./HARV
EST(KG.)● 20
.23• 44.38• 2
56.17• 116.55
••% OF
GRADE A
73• • AV.PRO
D./HARVEST(
KG.)● 20.23●
• AV.PROD./
HARVEST(K
G.)● 20.23● 4
4.38• 256.17

• 116.55• • %
OF GRADE
A
AV.PROD./H
ARVEST(KG.)
• 20.23• 44.3
8• 256.17• 11
6.55• • % OF
GRADE A
20.23• 44.38
• 256.17• 116
.55• • % OF
GRADE A
44.38• 256.17
• 116.55• • %
OF GRADE
Α
256.17• 116.5
5• • % OF
GRADE A
116.55• • %
OF GRADE
Α
• % OF
GRADE A
% OF GRADE
A OF GRADE
A % OF GRADE
A % OF GRADE B
A % OF GRADE B % OF
A % OF GRADE B % OF GRADE
A % OF GRADE B % OF
A % OF GRADE B % OF GRADE
A % OF GRADE B % OF GRADE C• 72.50 72.50
A % OF GRADE B % OF GRADE C● 72.50 72.50 20.17
A % OF GRADE B % OF GRADE C• 72.50 72.50 20.17 7.33• 66.15
A % OF GRADE B % OF GRADE C• 72.50 72.50 20.17 7.33• 66.15 66.15
A % OF GRADE B % OF GRADE C• 72.50 72.50 20.17 7.33• 66.15 66.15 32.30
A % OF GRADE B % OF GRADE C• 72.50 72.50 20.17 7.33• 66.15 66.15 32.30 1.55• 69.67
A % OF GRADE B % OF GRADE C• 72.50 72.50 20.17 7.33• 66.15 66.15 32.30
A % OF GRADE B % OF GRADE C• 72.50 20.17 7.33• 66.15 66.15 32.30 1.55• 69.67 69.67
A % OF GRADE B % OF GRADE C• 72.50 72.50 20.17 7.33• 66.15 66.15 32.30 1.55• 69.67 69.67 25.00
A % OF GRADE B % OF GRADE C• 72.50 20.17 7.33• 66.15 66.15 32.30 1.55• 69.67 69.67 25.00 5.33• 69.37
A % OF GRADE B % OF GRADE C• 72.50 20.17 7.33• 66.15 66.15 32.30 1.55• 69.67 69.67 25.00 5.33• 69.37 69.37
A % OF GRADE B % OF GRADE C• 72.50 20.17 7.33• 66.15 66.15 32.30 1.55• 69.67 69.67 25.00 5.33• 69.37 69.37 25.93
A % OF GRADE B % OF GRADE C• 72.50 20.17 7.33• 66.15 66.15 32.30 1.55• 69.67 69.67 25.00 5.33• 69.37 69.37
A % OF GRADE B % OF GRADE C• 72.50 20.17 7.33• 66.15 66.15 32.30 1.55• 69.67 69.67 25.00 5.33• 69.37 69.37 25.93
A % OF GRADE B % OF GRADE C• 72.50 20.17 7.33• 66.15 66.15 32.30 1.55• 69.67 69.67 25.00 5.33• 69.37 69.37 25.93 4.70• • SHIM LA• • NO.OF
A % OF GRADE B % OF GRADE C• 72.50 72.50 20.17 7.33• 66.15 66.15 32.30 1.55• 69.67 69.67 25.00 5.33• 69.37 69.37 25.93 4.70• • SHIM LA• • NO.OF HARVESTS/Y
A % OF GRADE B % OF GRADE C• 72.50 20.17 7.33• 66.15 66.15 32.30 1.55• 69.67 69.67 25.00 5.33• 69.37 69.37 25.93 4.70• • SHIM LA• • NO.OF HARVESTS/Y EAR• 75• 76
A % OF GRADE B % OF GRADE C• 72.50 72.50 20.17 7.33• 66.15 66.15 32.30 1.55• 69.67 69.67 25.00 5.33• 69.37 69.37 25.93 4.70• • SHIM LA• • NO.OF HARVESTS/Y EAR• 75• 76 • 102• 77• •
A % OF GRADE B % OF GRADE C• 72.50 20.17 7.33• 66.15 66.15 32.30 1.55• 69.67 69.67 25.00 5.33• 69.37 69.37 25.93 4.70• • SHIM LA• • NO.OF HARVESTS/Y EAR• 75• 76 • 102• 77• • • SHIMLA• •
A % OF GRADE B % OF GRADE C• 72.50 20.17 7.33• 66.15 66.15 32.30 1.55• 69.67 69.67 25.00 5.33• 69.37 69.37 25.93 4.70• • SHIM LA• • NO.OF HARVESTS/Y EAR• 75• 76 • 102• 77• • • SHIMLA• •
A % OF GRADE B % OF GRADE C• 72.50 20.17 7.33• 66.15 66.15 32.30 1.55• 69.67 69.67 25.00 5.33• 69.37 69.37 25.93 4.70• • SHIM LA• • NO.OF HARVESTS/Y EAR• 75• 76 • 102• 77• • • SHIMLA• • N
A % OF GRADE B % OF GRADE C• 72.50 20.17 7.33• 66.15 66.15 32.30 1.55• 69.67 69.67 25.00 5.33• 69.37 69.37 25.93 4.70• • SHIM LA• • NO.OF HARVESTS/Y EAR• 75• 76 • 102• 77• • • SHIMLA• •

EAR • 75• 76
• 102• 77• •
• NO.OF
HARVESTS/Y
EAR● 75● 76
• 102• 77• •
NO.OF
HARVESTS/Y
EAR● 75● 76
• 102• 77• •
75• 76• 102•
76• 102• 77•
102• 77• • AV
.PROD./HAR
VEST(KG.)• 1
7.86• 42.25•
77• • AV.PRO
D./HARVEST(
KG.)● 17.86• `
• AV.PROD./
HARVEST(K
G.) ● 17.86● 4
2.25• 132.35
• 40.12• • %
OF GRADE
Α
AV.PROD./H
ARVEST(KG.)
• 17.86• 42.2
5• 132.35• 40
.12• • % OF
GRADE A
GRADE A
17.86• 42.25
• 132.35• 40.
12• • % OF
GRADE A
42.25• 132.35
• 40.12• • %
OF GRADE
A
132.35• 40.12
• • % OF
GRADE A
40.12• • %
OF GRADE
Α
• % OF
GRADE A
% OF GRADE
Α
% OF GRADE B

% OF GRADE
C ● 73.27
73.27
19.31
7.42• 65.05
65.05
18.47
16.48• 80.00
80.00
10.00
10.00• 68.86
68.86
18.18
12.96• • OVE
RALL••NO.
OF
HARVESTS/Y
EAR • 73• 75
• 78• 75• • A
V.PROD./HA
RVEST(KG.)
• 19.15• 43.1
4• 241.60• 83
.79• • % OF
GRADE A
• OVERALL•
OVERALL• •
NO.OF
HARVESTS/Y
EAR ● 73• 75
• 78• 75• • A
V.PROD./HA
RVEST(KG.)
• 19.15• 43.1
4• 241.60• 83
.79• • % OF
GRADE A
NO.OF
HARVESTS/Y
EAR ● 73● 75
• 78• 75• • A
V.PROD./HA
RVEST(KG.)
• 19.15• 43.1
4• 241.60• 83
.79• • % OF
GRADE A
73• 75• 78• 7
5• • AV.PRO
D./HARVEST(
-
KG.) ● 19.15●
75• 78• 75• •

78• 75• • AV .
PROD./HARV
EST(KG.)• 19
.15• 43.14• 2
41.60• 83.79
••% OF
GRADE A
75• • AV.PRO
D./HARVEST(
KG.)● 19.15● ● AV.PROD./
HARVEST(K
G.) ● 19.15● 4
3.14• 241.60
• 83.79• • %
OF GRADE
A
AV.PROD./H
ARVEST(KG.)
• 19.15• 43.1
4• 241.60• 83
.79• • % OF
GRADE A
19.15• 43.14
• 241.60• 83.
79• • % OF
GRADE A
43.14• 241.60
• 83.79• • %
OF GRADE
A
241.60• 83.79
••% OF
GRADE A
83.79• • % OF GRADE
OF GRADE
A • % OF
GRADE A
% OF GRADE
A
A % OF GRADE
B
% OF GRADE
C ● 72.85
72.85
19.77
7.38• 65.52
65.52
24.35
10.13• 70.88
70.88

23.23 5.89• 69.15
69.15 22.63
8.22• ●
•
7.8
DIFFERENT
COST
COMPONEN
TS IN
VARIABLE
COST
The share of
different
components
in total
variable cost
indicates the
relative
importance of
different
heads in total
production
sequence.
The results of
analysis have
been
presented in
Table 7.8
wherein it may
be seen that
total variable
cost at overall
level was

Rs.59804 per
season (or per
crop). The
highest
percentage of
this was
required for
purchase of
compost
which
accounted for
about 54 per
cent. The
cost of
compost also
includes the
cost of casing
oil and lime
stone as the
compost
supplied by
private traders
includes these
and it was
very difficult to
separate their
costs. This
was followed
by labour
cost,
consuming
about 29 per
cent of the
total variable
cost. The

miscellaneous		
expenditure		
including		
electricity and		
water		
changes,		
interest and		
depreciation		
etc.		
accounted for		
other 9.5 per		
cent of total		
variable cost.		
Only about		
five percent of		
variable cost		
was incurred		
on spawn.		
The		
expenditure		
on compost		
was quite high		
(in percentage		
terms) in		
Shimla		
whereas hired		
labour		
accounted for		
higher share		
in Solan. The		
total variable		
cost per farm		
was		
substantially		
higher in		

Solan
(Rs.82854) as
compared
with Shimla,
where it was
only Rs.29072
per farm.
TABLE: 7.8 SHARE OF DIFFERENT COST COMPONEN TS IN TOTAL
VARIABLE COST.
(%) ITEM• CATE GORY CATEGORY • • SMALL• • SMALL• ME DIUM• LARG E• OVERALL • SOLAN•• SMALL• MED IUM• LARGE • OVERALL• MEDIUM• LA RGE• OVERA LL• • SOLAN • • 1.
COMPOST• 7 7.85• 58.75• LARGE• OVE RALL•• SOL AN••1. COMPOST•7 7.85• 58.75• OVERALL•• • SOLAN••1
COMPOST• 7 7.85• 58.75• SOLAN• • 1. COMPOST• 7 7.85• 58.75•

• 1. COMPOST• 7 7.85• 58.75• 1.
COMPOST • 7 7.85• 58.75• 77.85• 58.75 • 46.21• 48.7
3• • 2. SPAWN• 7.96 • 5.04• 4.64• 58.75• 46.21
• 48.73• • 2. SPAWN • 7.96 • 5.04• 4.64• 46.21• 48.73
••2. SPAWN•7.96 •5.04•4.64• 48.73•2. SPAWN•7.96
 SPAWN• 7.96 5.04• 4.64• 2. SPAWN• 7.96 5.04• 4.64•
2. SPAWN• 7.96 • 5.04• 4.64• 7.96• 5.04• 4. 64• 4.80• • 3. CASING
OIL• -• -• -• - • • 4. LIME STONE• -• - • -• -• • 5.
MEDICINES• 5.04• 4.64• 4. 80• • 3. CASING
OIL• -• -• -• - • • 4. LIME STONE• -• - • -• -• • 5.
MEDICINES• 4.64• 4.80• • 4.80• • 3. CASING
OIL• -• -• -• - • • 4. LIME STONE• -• - • -• -• • 5.
MEDICINES•

• 3. CASING OIL• -• -• -• -
• • 4. LIME STONE• -• -
• -• -• • 5. MEDICINES•
3. CASING OIL• -• -• -• -
• • 4. LIME STONE• -• -
• -• -• • 5. MEDICINES•
-• -• -• -• • 4. LIME
STONE• -• - • -• -• • 5.
MEDICINES•
LIME STONE• -• -
• -• -• • 5. MEDICINES•
-• -• • 4. LIME STONE• -• -
• -• -• • 5. MEDICINES•
-• • 4. LIME STONE• -• -
• -• -• • 5. MEDICINES•
• 4. LIME STONE• -• -
• -• -• • 5. MEDICINES•
4. LIME STONE• -• -
• -• -• • 5. MEDICINES•
-• -• -• -• • 5. MEDICINES•
-• -• -• • 5. MEDICINES•
-• -• • 5. MEDICINES•
-• • 5. MEDICINES•
• 5. MEDICINES•
5. MEDICINES•
4.07• 2.42• 2. 04• 2.15• • 6 .

HIRED LABOUR 2.42• 2.04• 2. 15• • 6.
HIRED LABOUR 2.04• 2.15• • 2.15• • 6.
HIRED LABOUR • 6. HIRED
LABOUR 6. HIRED LABOUR 7.
MISCELLANE OUS• -
- 10.12• 24.21 24.21 9.58• 37.70
37.70 9.41• 34.87 34.87
9.45• • TOTA L COST RS/FARM• 89
00• 30507• 1 87385• 82854 • • SHIMLA•
• TOTAL COST RS/FARM• 89
00• 30507• 1 87385• 82854
•• SHIMLA• TOTAL COST RS/FARM• 89
00• 30507• 1 87385• 82854 • • SHIMLA•
8900• 30507 • 187385• 82 854• • SHIML
A ••1. COMPOST •8
0.65• 70.30• 30507• 18738
5• 82854• • S HIMLA• • 1. COMPOST• 8
0.65• 70.30•

187385• 8285
4• • SHIMLA
••1.
COMPOST• 8
0.65• 70.30•
82854• • SHI
MLA• • 1.
COMPOST• 8
0.65• 70.30•
• SHIMLA• •
SHIMLA••1.
COMPOST• 8
0.65• 70.30•
• 1.
COMPOST• 8
0.65• 70.30•
1.
COMPOST• 8
0.65• 70.30•
80.65• 70.30
• 77.85• 73.6
3• • 2 .
SPAWN • 6.03
• 5.20• 5.90•
70.30• 77.85
• 73.63• • 2.
SPAWN • 6.03
• 5.20• 5.90•
77.85• 73.63
• • 2 .
SPAWN • 6.03
• 5.20• 5.90•
73.63•• 2.
SPAWN • 6.03
• 5.20• 5.90•
• 2.
SPAWN • 6.03
• 5.20• 5.90•
2.
SPAWN • 6.03
• 5.20• 5.90•
6.03• 5.20• 5.
90• 5.49• • 3.
CASING
OIL• -• -• -• -
• • 4. LIME
STONE
• -• -• • 5.
5.20• 5.90• 5.
49• • 3 .
CASING

OIL	
STONE 5. MEDICINES 5.90 - 5.49 - 3. CASING OIL - 4. LIME STONE - 4. LIME STONE - 4. LIME STONE 5. MEDICINES 3. CASING OIL 5. MEDICINES	
MEDICINES 5.90• 5.49• 3. CASING OIL• -• -• -• -• • 4. LIME STONE• -• -• • -• -• 5. MEDICINES• -• -• • 4. LIME STONE• -• -• • -• -• 5. MEDICINES• -• -• • 5. MEDICINES• -• -• • 5. MEDICINES• -• -• • 5. MEDICINES• -• -• • 5. MEDICINES• -• -• 5. MEDI	STONE• -• -
5.49••3. CASING OIL•	MEDICINES •
OIL • • • • • • • • • • 4. LIME STONE• • • • • • • 5. MEDICINES• • 3. CASING OIL• • • • • • • • 4. LIME STONE• • • • • 4. LIME STONE• • • • • 4. LIME STONE• • • • • • • 5. MEDICINES• • • • • • 5. MEDICINES• • • • • • 4. LIME STONE• • • • • • • • 5. MEDICINES• • • • • • 5. MEDICINES• • • • • 4. LIME STONE• • • • • • • 5. MEDICINES• • • • 4. LIME STONE• - • • • • • 5. MEDICINES• • • 4. LIME STONE• - • • • • 5. MEDICINES•	
• 4. LIME STONE• -• - • -• -• 5. MEDICINES• • 3. CASING OIL• -• -• -• - • 4. LIME STONE• -• - • -• -• 5. MEDICINES• -• -• • 5. MEDICINES• • 4. LIME STONE• -• - • -• -• 5. MEDICINES•	
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79• • 6 .
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LABOUR 7. MISELLANE OUS• -
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LABOUR 7. MISELLANE OUS• -
LABOUR 7. MISELLANE OUS• - 10.13• 11.67
LABOUR 7. MISELLANE OUS• - 10.13• 11.67 11.67
LABOUR 7. MISELLANE OUS• - 10.13• 11.67 11.67 9.95• 4.10 4.10
LABOUR 7. MISELLANE OUS• - 10.13• 11.67 11.67 9.95• 4.10 4.10 9.80• 8.15
LABOUR 7. MISELLANE OUS• - 10.13• 11.67 11.67 9.95• 4.10 4.10 9.80• 8.15 8.15
LABOUR 7. MISELLANE OUS• - 10.13• 11.67 11.67 9.95• 4.10 4.10 9.80• 8.15 8.15 9.94• • TOTA
LABOUR 7. MISELLANE OUS• - 10.13• 11.67 11.67 9.95• 4.10 4.10 9.80• 8.15 8.15 9.94• • TOTA L COST
LABOUR 7. MISELLANE OUS• - 10.13• 11.67 11.67 9.95• 4.10 4.10 9.80• 8.15 8.15 9.94• • TOTA
LABOUR 7. MISELLANE OUS• - 10.13• 11.67 11.67 9.95• 4.10 4.10 9.80• 8.15 8.15 9.94• • TOTA L COST RS.• 12516•
LABOUR 7. MISELLANE OUS• - 10.13• 11.67 11.67 9.95• 4.10 4.10 9.80• 8.15 8.15 9.94• • TOTA L COST RS.• 12516• • TOTAL
LABOUR 7. MISELLANE OUS• - 10.13• 11.67 11.67 9.95• 4.10 4.10 9.80• 8.15 8.15 9.94• • TOTA L COST RS.• 12516• • TOTAL COST
LABOUR 7. MISELLANE OUS• - 10.13• 11.67 11.67 9.95• 4.10 4.10 9.80• 8.15 8.15 9.94• • TOTA L COST RS.• 12516• • TOTAL COST RS.• 12516•
LABOUR 7. MISELLANE OUS• - 10.13• 11.67 11.67 9.95• 4.10 4.10 9.80• 8.15 8.15 9.94• • TOTA L COST RS.• 12516• • TOTAL COST RS.• 12516• TOTAL COST
LABOUR 7. MISELLANE OUS• - 10.13• 11.67 11.67 9.95• 4.10 4.10 9.80• 8.15 8.15 9.94• • TOTA L COST RS.• 12516• • TOTAL COST RS.• 12516• TOTAL COST RS.• 12516•
LABOUR 7. MISELLANE OUS• - 10.13• 11.67 11.67 9.95• 4.10 4.10 9.80• 8.15 8.15 9.94• • TOTA L COST RS.• 12516• • TOTAL COST RS.• 12516• TOTAL COST RS.• 12516•
LABOUR 7. MISELLANE OUS• - 10.13• 11.67 11.67 9.95• 4.10 4.10 9.80• 8.15 8.15 9.94• • TOTA L COST RS.• 12516• • TOTAL COST RS.• 12516• TOTAL COST RS.• 12516• 12516• 29726
LABOUR 7. MISELLANE OUS• - 10.13• 11.67 11.67 9.95• 4.10 4.10 9.80• 8.15 8.15 9.94• • TOTA L COST RS.• 12516• • TOTAL COST RS.• 12516• TOTAL COST RS.• 12516• 12516• 29726 • 105962• 29
LABOUR 7. MISELLANE OUS• - 10.13• 11.67 11.67 9.95• 4.10 4.10 9.80• 8.15 8.15 9.94• • TOTA L COST RS.• 12516• • TOTAL COST RS.• 12516• TOTAL COST RS.• 12516• 12516• 29726 • 105962• 29 072• • OVER
LABOUR 7. MISELLANE OUS• - 10.13• 11.67 11.67 9.95• 4.10 4.10 9.80• 8.15 8.15 9.94• • TOTA L COST RS.• 12516• • TOTAL COST RS.• 12516• TOTAL COST RS.• 12516• 12516• 29726 • 105962• 29 072• • OVER ALL• • 1.
LABOUR 7. MISELLANE OUS• - 10.13• 11.67 11.67 9.95• 4.10 4.10 9.80• 8.15 8.15 9.94• • TOTA L COST RS.• 12516• • TOTAL COST RS.• 12516• TOTAL COST RS.• 12516• 12516• 29726 • 105962• 29 072• • OVER ALL• • 1. COMPOST• 7
LABOUR 7. MISELLANE OUS• - 10.13• 11.67 11.67 9.95• 4.10 4.10 9.80• 8.15 8.15 9.94• • TOTA L COST RS.• 12516• • TOTAL COST RS.• 12516• TOTAL COST RS.• 12516• 12516• 29726 • 105962• 29 072• • OVER ALL• • 1.
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79.36• 65.38
• 48.43• 53.9
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65.38• 48.43
• 53.92• • 2.
SPAWN • 6.92
• 5.13• 4.73•
48.43• 53.92
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SPAWN • 6.92
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53.92• • 2.
SPAWN • 6.92
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SPAWN • 6.92
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SPAWN • 6.92
• 5.13• 4.73•
6.92• 5.13• 4.
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STONE• -• -
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94••3. CASING OIL•-•-•-
• • 4. LIME STONE• -• - • -• -• • 5.
MEDICINES • 4.73• 4.94• • 4.94• • 3 .
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STONE• -• - • -• -• • 5.
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LABOUR 7.
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LABOUR 7. MISELLANE OUS• -
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LABOUR 7. MISELLANE OUS• - 10.13• 17.00 17.00
LABOUR 7. MISELLANE OUS• - 10.13• 17.00 17.00 9.81• 35.34
LABOUR 7. MISELLANE OUS• - 10.13• 17.00 17.00 9.81• 35.34
LABOUR 7. MISELLANE OUS• - 10.13• 17.00 17.00 9.81• 35.34 35.34
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LABOUR 7. MISELLANE OUS• - 10.13• 17.00 17.00 9.81• 35.34 35.34 9.44• 29.30 29.30
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LABOUR 7. MISELLANE OUS• - 10.13• 17.00 17.00 9.81• 35.34 35.34 9.44• 29.30 29.30 9.56• • TOTA L COST
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LABOUR 7. MISELLANE OUS• - 10.13• 17.00 17.00 9.81• 35.34 35.34 9.44• 29.30 29.30 9.56• • TOTA L COST RS.• 10543• • TOTAL
LABOUR 7. MISELLANE OUS• - 10.13• 17.00 17.00 9.81• 35.34 35.34 9.44• 29.30 29.30 9.56• • TOTA L COST RS.• 10543• • TOTAL COST
LABOUR 7. MISELLANE OUS• - 10.13• 17.00 17.00 9.81• 35.34 35.34 9.44• 29.30 29.30 9.56• • TOTA L COST RS.• 10543• • TOTAL COST RS.• 10543•
LABOUR 7. MISELLANE OUS• - 10.13• 17.00 17.00 9.81• 35.34 35.34 9.44• 29.30 29.30 9.56• • TOTA L COST RS.• 10543• • TOTAL COST RS.• 10543• TOTAL COST
LABOUR 7. MISELLANE OUS• - 10.13• 17.00 17.00 9.81• 35.34 35.34 9.44• 29.30 29.30 9.56• • TOTA L COST RS.• 10543• • TOTAL COST RS.• 10543• TOTAL COST
LABOUR 7. MISELLANE OUS• - 10.13• 17.00 17.00 9.81• 35.34 35.34 9.44• 29.30 29.30 9.56• • TOTA L COST RS.• 10543• • TOTAL COST RS.• 10543• TOTAL COST RS.• 10543•
LABOUR 7. MISELLANE OUS• - 10.13• 17.00 17.00 9.81• 35.34 35.34 9.44• 29.30 29.30 9.56• • TOTA L COST RS.• 10543• • TOTAL COST RS.• 10543• TOTAL COST RS.• 10543• 10543• 30054
LABOUR 7. MISELLANE OUS• - 10.13• 17.00 17.00 9.81• 35.34 35.34 9.44• 29.30 29.30 9.56• • TOTA L COST RS.• 10543• • TOTAL COST RS.• 10543• TOTAL COST RS.• 10543• 10543• 30054 • 177805• 59
LABOUR 7. MISELLANE OUS• - 10.13• 17.00 17.00 9.81• 35.34 35.34 9.44• 29.30 29.30 9.56• • TOTA L COST RS.• 10543• • TOTAL COST RS.• 10543• TOTAL COST RS.• 10543• TOTAL COST RS.• 10543• 10543• 30054 • 177805• 59 804• •
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LABOUR 7. MISELLANE OUS• - 10.13• 17.00 17.00 9.81• 35.34 35.34 9.44• 29.30 29.30 9.56• • TOTA L COST RS.• 10543• • TOTAL COST RS.• 10543• • TOTAL COST RS.• 10543• 10543• 30054 • 177805• 59 804• • 30054• 17780 5• 59804• •
LABOUR 7. MISELLANE OUS• - 10.13• 17.00 17.00 9.81• 35.34 35.34 9.44• 29.30 29.30 9.56• • TOTA L COST RS.• 10543• • TOTAL COST RS.• 10543• • TOTAL COST RS.• 10543• 10543• 30054 • 177805• 59 804• • 30054• 17780 5• 59804• •
LABOUR 7. MISELLANE OUS• - 10.13• 17.00 17.00 9.81• 35.34 35.34 9.44• 29.30 29.30 9.56• • TOTA L COST RS.• 10543• • TOTAL COST RS.• 10543• • TOTAL COST RS.• 10543• TOTAL COST RS.• 10543• 10543• 30054 • 177805• 59 804• • 30054• 17780

59804• •	
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7.9 LABOUR	
DISTRIBUTIO	
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Labour use	
pattern has	
been	
presented in	
7.9 which	
depicts that	
on an average	
664 mandays	
of labour	
required in	
one season to	
raise	
mushroom	
crop	
successfully.	
lt varied	
between 927	
days in Solan	
and 314 days	
in Shimla	
districts. The	
category wise	
analysis	
indicates that	
on small	
farms only	
176 mandays	
were required	
which	
increased to	

356 in case of
medium and
1859
mandays in
case of large
farmers. The
abnormally
higher labour
use in case of
large farms
was due to
the fact that
some of them
are also
engaged in
making of
compost.
Some
proportion of
the compost
made is used
on the farm
and the rest is
sold to other
farmers who
are willing to
buy. The
analysis
indicates that
crop
management,
which
includes
maintenance
of

temperature
and watering
of trays, is the
major head
accounting for
about 67
percent of the
total labour.
The cleaning
and coshing
are other
important
functions from
labour point of
view. The
crop
management
has been
observed to
be most
important in
both the
districts but in
Solan it
consumed
about 71 per
cent of labour
whereas in
Shimla only
about 51
percent. The
other details
may also be
referred to
from the table.

TABLE: 7.9 OPERATION- WISE DISTRIBUTIO N OF LABOUR.
(%) OPERATION• C ATEGORY CATEGORY •• SMALL• M EDIUM• LARGE • OVERALL• S OLAN• 1. STERILISATION OF TRAYS ETC.• 1.17• 1.08 • 0.51• 0.54• • 2. FILLING OF COMPOST• 5.29 • 5.15• 5.69• 5.6 1• • 3.
SPAWNING• 14. 90• 9.48• 4.21• 5 .50• • 4. CASING• 17.65 • 18.43• 3.62• 6. 26• • 5. CROP MANAGEMENT • 50.00• 55.56• 7 4.33• 70.66• • 6. CLEANING ETC.• 8.24• 8.13 • 9.17• 8.95• • 7. MISCELLANEO US• 2.95• 2.17• • SMALL• ME DIUM• LARGE• O

VERALL. • SOL
AN• ● 1.
STERILISATION
OF TRAYS
ETC.• 1.17• 1.08
• 0.51• 0.54• • 2 .
FILLING OF
COMPOST • 5.29
• 5.15• 5.69• 5.6
1•• 3.
SPAWNING® 14.
90• 9.48• 4.21• 5
.50• • 4.
CASING 17.65
• 18.43• 3.62• 6.
26• • 5. CROP
MANAGEMENT
• 50.00• 55.56• 7
4.33• 70.66• • 6 .
CLEANING
ETC.• 8.24• 8.13
• 9.17• 8.95• • 7.
MISCELLANEO
US ● 2.95● 2.17●
SMALL• MEDIU
M• LARGE• OV
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• 9.17• 8.95• • 7. MISCELLANEO US• 2.95• 2.17• 8.24• 8.13• 9.17 • 8.95• 7. MISCELLANEO US• 2.95• 2.17• 8.13• 9.17• 8.95 • • 7. MISCELLANEO US• 2.95• 2.17• 9.17• 8.95• • 7. MISCELLANEO US• 2.95• 2.17• 8.95• • 7. MISCELLANEO	ETC.• 8.24• 8 13
MISCELLANEO US• 2.95• 2.17• 8.24• 8.13• 9.17 • 8.95• 7. MISCELLANEO US• 2.95• 2.17• 8.13• 9.17• 8.95 • 7. MISCELLANEO US• 2.95• 2.17• 9.17• 8.95• 7. MISCELLANEO US• 2.95• 2.17• 8.95• 7. MISCELLANEO	
US• 2.95• 2.17• 8.24• 8.13• 9.17 • 8.95• 7. MISCELLANEO US• 2.95• 2.17• 8.13• 9.17• 8.95 • 7. MISCELLANEO US• 2.95• 2.17• 9.17• 8.95• 7. MISCELLANEO US• 2.95• 2.17• 8.95• 7. MISCELLANEO	
US• 2.95• 2.17• 8.24• 8.13• 9.17 • 8.95• 7. MISCELLANEO US• 2.95• 2.17• 8.13• 9.17• 8.95 • 7. MISCELLANEO US• 2.95• 2.17• 9.17• 8.95• 7. MISCELLANEO US• 2.95• 2.17• 8.95• 7. MISCELLANEO	MISCELLANEO
8.24• 8.13• 9.17 • 8.95• 7. MISCELLANEO US• 2.95• 2.17• 8.13• 9.17• 8.95 • 7. MISCELLANEO US• 2.95• 2.17• 9.17• 8.95• 7. MISCELLANEO US• 2.95• 2.17• 8.95• 7. MISCELLANEO	
• 8.95• • 7. MISCELLANEO US• 2.95• 2.17• 8.13• 9.17• 8.95 • • 7. MISCELLANEO US• 2.95• 2.17• 9.17• 8.95• • 7. MISCELLANEO US• 2.95• 2.17• 8.95• • 7. MISCELLANEO	
MISCELLANEO US• 2.95• 2.17• 8.13• 9.17• 8.95 • • 7. MISCELLANEO US• 2.95• 2.17• 9.17• 8.95• • 7. MISCELLANEO US• 2.95• 2.17• 8.95• • 7. MISCELLANEO	
MISCELLANEO US• 2.95• 2.17• 8.13• 9.17• 8.95 • • 7. MISCELLANEO US• 2.95• 2.17• 9.17• 8.95• • 7. MISCELLANEO US• 2.95• 2.17• 8.95• • 7. MISCELLANEO	• 8.95• • 7 .
US• 2.95• 2.17• 8.13• 9.17• 8.95 ••7. MISCELLANEO US• 2.95• 2.17• 9.17• 8.95••7. MISCELLANEO US• 2.95• 2.17• 8.95••7. MISCELLANEO	
8.13• 9.17• 8.95 ••7. MISCELLANEO US• 2.95• 2.17• 9.17• 8.95••7. MISCELLANEO US• 2.95• 2.17• 8.95••7. MISCELLANEO	
8.13• 9.17• 8.95 ••7. MISCELLANEO US• 2.95• 2.17• 9.17• 8.95••7. MISCELLANEO US• 2.95• 2.17• 8.95••7. MISCELLANEO	US • 2.95• 2.17•
••7. MISCELLANEO US•2.95•2.17• 9.17•8.95••7. MISCELLANEO US•2.95•2.17• 8.95••7. MISCELLANEO	8.13• 9.17• 8.95
MISCELLANEO US• 2.95• 2.17• 9.17• 8.95• • 7. MISCELLANEO US• 2.95• 2.17• 8.95• • 7. MISCELLANEO	
US• 2.95• 2.17• 9.17• 8.95• • 7. MISCELLANEO US• 2.95• 2.17• 8.95• • 7. MISCELLANEO	
US• 2.95• 2.17• 9.17• 8.95• • 7. MISCELLANEO US• 2.95• 2.17• 8.95• • 7. MISCELLANEO	MISCELLANEO
9.17• 8.95• • 7. MISCELLANEO US• 2.95• 2.17• 8.95• • 7. MISCELLANEO	
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MISCELLANEO	
MISCELLANEO	US● 2.95● 2.17●
	US● 2.95● 2.17●
US • 2.95• 2.17•	US • 2.95• 2.17• 8.95• • 7.
	US• 2.95• 2.17• 8.95• • 7. MISCELLANEO

• 7. MISCELLANEO US• 2.95• 2.17• 7.
MISCELLANEO US • 2.95• 2.17• 2.95• 2.17• 2.47
• 2.48• • TOTAL LABOUR USED (DAYS/SEASON
(DATS/SEASON)● 170● 369● 201 8● 927● ● SHIML A● ● 1.
STERILISATION OF TRAYS
ETC. • 1.63• 1.16 • 0.76• 1.27• • 2 .
FILLING OF COMPOST• 5.43 • 5.78• 13.49• 6.
69•• 3. SPAWNING •14. 13•9.25•10.79•
2.17• 2.47• 2.48 • • TOTAL LABOUR USED
(DAYS/SEASON)● 170● 369● 201 8● 927● ● SHIML A● ● 1.
STERILISATION OF TRAYS ETC.• 1.63• 1.16
• 0.76• 1.27• • 2. FILLING OF COMPOST• 5.43
• 5.78• 13.49• 6. 69• • 3.
SPAWNING • 14. 13• 9.25• 10.79• 2.47• 2.48• • TO TAL LABOUR
USED (DAYS/SEASON
)● 170● 369● 201 8● 927● ● SHIML A ● ● 1.
STERILISATION OF TRAYS
ETC.• 1.63• 1.16 • 0.76• 1.27• • 2. FILLING OF
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SPAWNING • 14. 13• 9.25• 10.79•
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A● ● 1.
STERILISATION
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OF TRAYS ETC. • 1.63• 1.16 • 0.76• 1.27• • 2 .
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• TOTAL
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)• 170• 369• 201
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STERILISATION
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STERILISATION
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MLA● ● 1.
STERILISATION
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SPAWNING 14.
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927● ● SHIMLA●
• SHIMLA• • 1.
STERILISATION
OF TRAYS
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LIU. I.03 I.10

• 0.76• 1.27• • 2 .
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CONPOSI • 5.43
• 5.78• 13.49• 6.
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SHIMLA● ● 1.
STERILISATION
OF TRAYS
ETC • 1 63• 1 16
ETC. • 1.63• 1.16 • 0.76• 1.27• • 2 .
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FILLING OF
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69• • 3.
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STERILISATION
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SPAWNING 14.
100 0 050 10 700
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1.27• • 2. FILLING OF COMPOST• 5.43 • 5.78• 13.49• 6. 69• • 3.
SPAWNING • 14. 13• 9.25• 10.79• • 2. FILLING OF COMPOST • 5.43 • 5.78• 13.49• 6.
69••3. SPAWNING•14. 13•9.25•10.79• 2. FILLING OF COMPOST•5.43 •5.78•13.49•6. 69••3.
SPAWNING • 14. 13• 9.25• 10.79• 5.43• 5.78• 13.4 9• 6.69• • 3 .
SPAWNING • 14. 13• 9.25• 10.79• 5.78• 13.49• 6.6 9• • 3 .
SPAWNING • 14. 13• 9.25• 10.79• 13.49• 6.69• • 3 . SPAWNING • 14. 13• 9.25• 10.79• 6.69• • 3 .
SPAWNING • 14. 13• 9.25• 10.79• • 3. SPAWNING • 14.
13• 9.25• 10.79• 3. SPAWNING• 14. 13• 9.25• 10.79• 14.13• 9.25• 10. 79• 10.51• • 4.
CASING • 17.39 • 19.36• 8.99• 17 .51• • 5. CROP MANAGEMENT • 50.00• 52.60• 4
3.93• 50.96• • 6. CLEANING ETC.• 8.16• 9.25 • 18.29• 10.19• 9.25• 10.79• 10.
51••4. CASING•17.39 •19.36•8.99•17 .51••5.CROP MANAGEMENT
• 50.00• 52.60• 4 3.93• 50.96• • 6. CLEANING ETC.• 8.16• 9.25 • 18.29• 10.19• 10.79• 10.51• • 4
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CASING 17.39
• 19.36• 8.99• 17
.51• • 5. CROP
MANAGEMENT
• 50.00• 52.60• 4
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CLEANING
ETC.• 8.16• 9.25
• 18.29• 10.19•
• 10.29• 10.19•
10.51• • 4.
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.51• • 5. CROP
MANAGEMENT
● 50.00● 52.60● 4
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● 50.00● 52.60● 4
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.51• • 5. CROP
MANAGEMENT
● 50.00● 52.60● 4
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• 50.00• 52.60• 4
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ETC.• 8.16• 9.25
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MANAGEMENT
• 50.00• 52.60• 4
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CLEANING
ETC.• 8.16• 9.25
• 18.29• 10.19•
50.00• 52.60• 43
.93• 50.96• • 6.
CLEANING
ETC.• 8.16• 9.25
• 18.29• 10.19•
• 10.29• 10.19•
52.60• 43.93• 50
.96• • 6.
CLEANING
ETC.• 8.16• 9.25
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43.93• 50.96• • 6
. CLEANING
ETC.• 8.16• 9.25
• 18.29• 10.19•
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CLEANING
ETC.• 8.16• 9.25
• 18.29• 10.19•
6. CLEANING
ETC.• 8.16• 9.25
● 18.29● 10.19●
6. CLEANING
ETC.• 8.16• 9.25
• 18.29• 10.19•
8.16• 9.25• 18.2
9● 10.19● ● 7.
MISCELLANEO
US ● 3.26● 2.60●
0.054 10.004 10
9.25• 18.29• 10.
9.25• 18.29• 10. 19• • 7.
9.25• 18.29• 10. 19• • 7.
9.25● 18.29● 10. 19● ● 7. MISCELLANEO
9.25• 18.29• 10. 19• • 7. MISCELLANEO US• 3.26• 2.60•
9.25• 18.29• 10. 19• • 7. MISCELLANEO US• 3.26• 2.60•
9.25• 18.29• 10. 19• • 7. MISCELLANEO US• 3.26• 2.60• 18.29• 10.19• • 7
9.25• 18.29• 10. 19• • 7. MISCELLANEO US• 3.26• 2.60• 18.29• 10.19• • 7
9.25• 18.29• 10. 19• • 7. MISCELLANEO US• 3.26• 2.60• 18.29• 10.19• • 7 MISCELLANEO
9.25• 18.29• 10. 19• • 7. MISCELLANEO US• 3.26• 2.60• 18.29• 10.19• • 7 MISCELLANEO
9.25• 18.29• 10. 19• • 7. MISCELLANEO US• 3.26• 2.60• 18.29• 10.19• • 7 MISCELLANEO US• 3.26• 2.60•
9.25• 18.29• 10. 19• • 7. MISCELLANEO US• 3.26• 2.60• 18.29• 10.19• • 7 MISCELLANEO US• 3.26• 2.60• 10.19• • 7.
9.25• 18.29• 10. 19• • 7. MISCELLANEO US• 3.26• 2.60• 18.29• 10.19• • 7 MISCELLANEO US• 3.26• 2.60•

US• 3.26• 2.60• • 7.
MISCELLANEO US• 3.26• 2.60•
7. MISCELLANEO US• 3.26• 2.60• 3.26• 2.60• 3.75 • 2.87• • TOTAL LABOUR USED (DAYS/SEASON)• 184• 346• 667 • 314• • OVERA LL• • 1.
STERILISATION OF TRAYS ETC.• 1.13• 1.12 • 0.49• 0.61• • 2. FILLING OF COMPOST• 5.11 • 5.62• 6.02• 5.7 2• • 3.
SPAWNING • 14. 77• 9.27• 4.46• 6 .78• • 4 .
CASING• 17.05 • 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT • 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71 • 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25•
2.60• 3.75• 2.87 • TOTAL LABOUR USED (DAYS/SEASON)• 184• 346• 667 • 314• • OVERA LL• • 1.
STERILISATION OF TRAYS ETC.• 1.13• 1.12 • 0.49• 0.61• • 2. FILLING OF COMPOST• 5.11 • 5.62• 6.02• 5.7
2••3. SPAWNING•14. 77•9.27•4.46•6
.78• • 4. CASING • 17.05 • 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT • 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71

• 9.58• 9.34• • 7.
MISCELLANEO
US ● 2.84● 2.25●
3.75• 2.87• • TO
TAL LABOUR
USED
(DAYS/SEASON
)• 184• 346• 667
• 314• • OVERA
LL• • 1.
STERILISATION
OF TRAYS
ETC.• 1.13• 1.12
• 0.49• 0.61• • 2.
FILLING OF
COMPOST • 5.11
• 5.62• 6.02• 5.7
2•• 3 .
SPAWNING 14.
77• 9.27• 4.46• 6
.78• • 4.
CASING 17.05
• 19.10• 3.87• 8.
58• • 5. CROP
MANAGEMENT
● 50.57● 53.93● 7
3.05• 66.56• • 6.
CLEANING
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MISCELLANEO
US ● 2.84● 2.25●
2.87• • TOTAL
LABOUR USED
(DAYS/SEASON
)• 184• 346• 667
• 314• • OVERA
LL● ● 1.
STERILISATION
OF TRAYS
ETC.• 1.13• 1.12
• 0.49• 0.61• • 2 .
FILLING OF
COMPOST • 5.11
• 5.62• 6.02• 5.7
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SPAWNING 14.
77• 9.27• 4.46• 6
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• 10 10• 0 07• 0
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58• • 5. CROP
MANAGEMENT
• 50.57• 53.93• 7
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CLEANING
ETC.• 8.53• 8.71
• 9.58• 9.34• • 7.
MISCELLANEO
US ● 2.84● 2.25●
US ● 2.84● 2.25●

(DAYS/SEASON
)• 184• 346• 667
• 314• • OVERA
LL● ● 1.
STERILISATION
OF TRAYS
ETC.• 1.13• 1.12
• 0.49• 0.61• • 2.
FILLING OF
COMPOST• 5.11
• 5.62• 6.02• 5.7
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SPAWNING 14.
77• 9.27• 4.46• 6
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CASING 17.05
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• 19.10• 3.87• 8. 58• • 5. CROP
MANAGEMENT
• 50.57• 53.93• 7
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CLEANING
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MISCELLANEO
US ● 2.84● 2.25●
TOTAL
LABOUR USED
(DAYS/SEASON
)• 184• 346• 667
• 314• • OVERA
LL● ● 1.
STERILISATION
STERILISATION OF TRAYS
STERILISATION OF TRAYS ETC.• 1.13• 1.12
STERILISATION OF TRAYS ETC. • 1.13• 1.12 • 0.49• 0.61• • 2.
STERILISATION OF TRAYS ETC.• 1.13• 1.12 • 0.49• 0.61• • 2. FILLING OF
STERILISATION OF TRAYS ETC.• 1.13• 1.12 • 0.49• 0.61• • 2. FILLING OF COMPOST• 5.11
STERILISATION OF TRAYS ETC.• 1.13• 1.12 • 0.49• 0.61• • 2. FILLING OF COMPOST• 5.11
STERILISATION OF TRAYS ETC.• 1.13• 1.12 • 0.49• 0.61• • 2. FILLING OF
STERILISATION OF TRAYS ETC.• 1.13• 1.12 • 0.49• 0.61• • 2. FILLING OF COMPOST• 5.11 • 5.62• 6.02• 5.7 2• • 3.
STERILISATION OF TRAYS ETC.• 1.13• 1.12 • 0.49• 0.61• • 2. FILLING OF COMPOST• 5.11 • 5.62• 6.02• 5.7 2• 3. SPAWNING• 14.
STERILISATION OF TRAYS ETC.• 1.13• 1.12 • 0.49• 0.61• • 2. FILLING OF COMPOST• 5.11 • 5.62• 6.02• 5.7 2• 3. SPAWNING• 14. 77• 9.27• 4.46• 6
STERILISATION OF TRAYS ETC.• 1.13• 1.12 • 0.49• 0.61• • 2. FILLING OF COMPOST• 5.11 • 5.62• 6.02• 5.7 2• 3. SPAWNING• 14. 77• 9.27• 4.46• 6 .78• • 4.
STERILISATION OF TRAYS ETC.• 1.13• 1.12 • 0.49• 0.61• • 2. FILLING OF COMPOST• 5.11 • 5.62• 6.02• 5.7 2• 3. SPAWNING• 14. 77• 9.27• 4.46• 6 .78• • 4.
STERILISATION OF TRAYS ETC.• 1.13• 1.12 • 0.49• 0.61• • 2. FILLING OF COMPOST• 5.11 • 5.62• 6.02• 5.7 2• 3. SPAWNING• 14. 77• 9.27• 4.46• 6 .78• • 4. CASING• 17.05
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2••3. SPAWNING•14. 77•9.27•4.46•6 .78•4. CASING•17.05 •19.10•3.87•8. 58•5. CROP MANAGEMENT •50.57•53.93•7 3.05•66.56••6. CLEANING ETC.•8.53•8.71 •9.58•9.34•7. MISCELLANEO US•2.84•2.25• 0.61•2. FILLING OF COMPOST•5.11 •5.62•6.02•5.7 2•3. SPAWNING•14. 77•9.27•4.46•6 .78•4. CASING•17.05 •19.10•3.87•8. 58•5. CROP MANAGEMENT •50.57•53.93•7 3.05•66.56•6. CLEANING ETC.•8.53•8.71 •9.58•9.34•7. MISCELLANEO US•2.84•2.25• •19.10•3.87•8. 58•5. CROP MANAGEMENT •5.62•6.02•5.7 2•3. SPAWNING•14. 75.62•6.02•5.7 2•3. SPAWNING•14. 77•9.27•4.46•6 .78•4. CASING•17.05 •19.10•3.87•8. 58-5. CROP MANAGEMENT	US• 2.84• 2.25• 0.49• 0.61• • 2. FILLING OF COMPOST• 5.11
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CLEANING ETC.• $8.53 \cdot 8.71$ • $9.58 \cdot 9.34 \cdot 7$. MISCELLANEO US• $2.84 \cdot 2.25 \cdot 0.61 \cdot 2$. FILLING OF COMPOST• 5.11 • $5.62 \cdot 6.02 \cdot 5.7 \cdot 2 \cdot 3$. SPAWNING• 14 . $77 \cdot 9.27 \cdot 4.46 \cdot 6 \cdot 78 \cdot 4$. CASING• $17.05 \cdot 19.10 \cdot 3.87 \cdot 8$. $58 \cdot 5$. CROP MANAGEMENT • $50.57 \cdot 53.93 \cdot 7$ $3.05 \cdot 66.56 \cdot 6$. CLEANING ETC.• $8.53 \cdot 8.71 \cdot 9.58 \cdot 9.34 \cdot 7$. MISCELLANEO US• $2.84 \cdot 2.25 \cdot 2$. FILLING OF COMPOST• $5.11 \cdot 5.62 \cdot 6.02 \cdot 5.7 \cdot 2 \cdot 3$. SPAWNING• 14 . $77 \cdot 9.27 \cdot 4.46 \cdot 6 \cdot 78 \cdot 4$. CASING• $17.05 \cdot 19.10 \cdot 3.87 \cdot 8$. $58 \cdot 5$. CROP MANAGEMENT	• 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT • 50.57• 53.93• 7
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• 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT • 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71 • 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 2. FILLING OF COMPOST• 5.11 • 5.62• 6.02• 5.7 2• • 3. SPAWNING• 14. 77• 9.27• 4.46• 6 .78• 4. CASING• 17.05 • 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT	2••3. SPAWNING•14. 77•9.27•4.46•6 .78•• 4.
3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71 • 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 2. FILLING OF COMPOST• 5.11 • 5.62• 6.02• 5.7 2• • 3. SPAWNING• 14. 77• 9.27• 4.46• 6 .78• • 4. CASING• 17.05 • 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT	• 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT
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• 9.58• 9.34• • 7 .
MISCELLANEO
US ● 2.84● 2.25●
5.72• • 3.
SPAWNING 14.
77• 9.27• 4.46• 6
.78• • 4.
CASING 17.05
• 19.10• 3.87• 8.
58• • 5. CROP
MANAGEMENT
• 50.57• 53.93• 7
3.05• 66.56• • 6.
CLEANING
ETC.• 8.53• 8.71
• 9.58• 9.34• • 7.
MISCELLANEO
US• 2.84• 2.25•
• 3.
SPAWNING 14.
77• 9.27• 4.46• 6
.78• • 4.
CASING 17.05
• 19.10• 3.87• 8. 58• • 5. CROP
58• • 5. CROP
MANAGEMENT
• 50.57• 53.93• 7
3.05• 66.56• • 6 .
CLEANING
ETC.• 8.53• 8.71
• 9.58• 9.34• • 7.
MISCELLANEO
US• 2.84• 2.25•
3.
•••
SPAWNING 14.
77• 9.27• 4.46• 6
.78• • 4.
CASING 17.05
• 19.10• 3.87• 8.
-13.10 - 3.07 - 0.
58• • 5. CROP
MANAGEMENT
● 50.57● 53.93● 7
• 50.57• 53.93• 7 3.05• 66.56• • 6 .
• 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING
• 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71
• 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING
• 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71 • 9.58• 9.34• • 7.
• 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71 • 9.58• 9.34• • 7. MISCELLANEO
• 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71 • 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25•
• 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71 • 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• 14.77• 9.27• 4.4
• 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71 • 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• 14.77• 9.27• 4.4 6• 6.78• • 4.
• 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71 • 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• 14.77• 9.27• 4.4 6• 6.78• • 4. CASING• 17.05
• 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71 • 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• 14.77• 9.27• 4.4 6• 6.78• • 4. CASING• 17.05
• 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71 • 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• 14.77• 9.27• 4.4 6• 6.78• • 4. CASING• 17.05
• 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71 • 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• 14.77• 9.27• 4.4 6• 6.78• • 4. CASING• 17.05 • 19.10• 3.87• 8. 58• • 5. CROP
• 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71 • 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• 14.77• 9.27• 4.4 6• 6.78• • 4. CASING• 17.05 • 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT
• 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71 • 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• 14.77• 9.27• 4.4 6• 6.78• • 4. CASING• 17.05 • 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT • 50.57• 53.93• 7
• 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71 • 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• 14.77• 9.27• 4.4 6• 6.78• • 4. CASING• 17.05 • 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT

CLEANING
ETC.• 8.53• 8.71
• 9.58• 9.34• • 7 .
US • 2.84• 2.25• 9.27• 4.46• 6.78
9.2/• 4.46• 6.78 • • 4 .
CASING 17.05
• 19.10• 3.87• 8.
58• • 5. CROP
MANAGEMENT
● 50.57● 53.93● 7
3.05• 66.56• • 6 .
CLEANING
ETC.• 8.53• 8.71
• 9.58• 9.34• • 7 .
US ● 2.84● 2.25● 4.46● 6.78● ● 4 .
4.46• 6.78• • 4. CASING• 17.05
• 19.10• 3.87• 8.
58• • 5. CROP
MANAGEMENT
● 50.57● 53.93● 7
3.05• 66.56• • 6.
CLEANING
ETC.• 8.53• 8.71
• 9.58• 9.34• • 7.
MISCELLANEO
US ● 2.84● 2.25●
6.78• • 4.
CASING 17.05
• 19.10• 3.87• 8. 58• • 5. CROP
MANAGEMENT
• 50.57• 53.93• 7
3.05• 66.56• • 6 .
CLEANING
ETC.• 8.53• 8.71
ETC. • 8.53• 8.71 • 9.58• 9.34• • 7 .
• 9.58• 9.34• • 7. MISCELLANEO
• 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25•
• 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 4.
• 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 4. CASING• 17.05
• 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 4. CASING• 17.05 • 19.10• 3.87• 8.
• 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 4. CASING• 17.05 • 19.10• 3.87• 8. 58• • 5. CROP
• 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 4. CASING• 17.05 • 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT
• 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 4. CASING• 17.05 • 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT • 50.57• 53.93• 7
• 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 4. CASING• 17.05 • 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT • 50.57• 53.93• 7 3.05• 66.56• • 6.
• 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 4. CASING• 17.05 • 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT • 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING
• 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 4. CASING• 17.05 • 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT • 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71
• 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 4. CASING• 17.05 • 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT • 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71 • 9.58• 9.34• • 7.
• 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 4. CASING• 17.05 • 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT • 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71
• 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 4. CASING• 17.05 • 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT • 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71 • 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• 4.
• 9.58• 9.34• 7. MISCELLANEO US• 2.84• 2.25• • 4. CASING• 17.05 • 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT • 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71 • 9.58• 9.34• 7. MISCELLANEO US• 2.84• 2.25• 4. CASING• 17.05
• 9.58• 9.34• 7. MISCELLANEO US• 2.84• 2.25• • 4. CASING• 17.05 • 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT • 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71 • 9.58• 9.34• 7. MISCELLANEO US• 2.84• 2.25• 4. CASING• 17.05 • 19.10• 3.87• 8.
• 9.58• 9.34• 7. MISCELLANEO US• 2.84• 2.25• • 4. CASING• 17.05 • 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT • 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71 • 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• 4. CASING• 17.05 • 19.10• 3.87• 8. 58• • 5. CROP
• 9.58• 9.34• 7. MISCELLANEO US• 2.84• 2.25• • 4. CASING• 17.05 • 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT • 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71 • 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• 4. CASING• 17.05 • 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT
• 9.58• 9.34• 7. MISCELLANEO US• 2.84• 2.25• • 4. CASING• 17.05 • 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT • 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71 • 9.58• 9.34• 7. MISCELLANEO US• 2.84• 2.25• 4. CASING• 17.05 • 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT • 50.57• 53.93• 7
• 9.58• 9.34• 7. MISCELLANEO US• 2.84• 2.25• • 4. CASING• 17.05 • 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT • 50.57• 53.93• 7 3.05• 66.56• • 6. CLEANING ETC.• 8.53• 8.71 • 9.58• 9.34• • 7. MISCELLANEO US• 2.84• 2.25• 4. CASING• 17.05 • 19.10• 3.87• 8. 58• • 5. CROP MANAGEMENT

ETC.• 8.53• 8.71
• 9.58• 9.34• • 7 .
MISCELLANEO
US ● 2.84● 2.25●
17.05• 19.10• 3.
87• 8.58• • 5.
CROP
MANAGEMENT
• 50.57• 53.93• 7
3.05• 66.56• • 6.
CLEANING
ETC.• 8.53• 8.71
• 9.58• 9.34• • 7 .
MISCELLANEO
US • 2.84• 2.25•
19.10• 3.87• 8.5
8• • 5. CROP
MANAGEMENT
• 50.57• 53.93• 7
3.05• 66.56• • 6.
CLEANING
ETC.• 8.53• 8.71
• 9.58• 9.34• • 7.
MISCELLANEO
US• 2.84• 2.25•
3.87• 8.58• • 5 .
CROP
MANAGEMENT
• 50.57• 53.93• 7
3.05• 66.56• • 6 .
CLEANING
ETC.• 8.53• 8.71
• 9.58• 9.34• • 7 .
MISCELLANEO
US● 2.84● 2.25●
8.58• • 5. CROP
MANAGEMENT
• 50.57• 53.93• 7
3.05• 66.56• • 6 .
CLEANING
ETC.• 8.53• 8.71
• 9.58• 9.34• • 7 .
MISCELLANEO
US● 2.84● 2.25●
 5. CROP
MANAGEMENT
• 50.57• 53.93• 7
3.05• 66.56• • 6 .
CLEANING
ETC.• 8.53• 8.71
• 9.58• 9.34• • 7 .
MISCELLANEO
US● 2.84● 2.25●
5. CROP
MANAGEMENT
• 50.57• 53.93• 7
3.05• 66.56• • 6.
CLEANING
ETC.• 8.53• 8.71
• 9.58• 9.34• • 7 .
MISCELLANEO
US ● 2.84● 2.25●

50.57• 53.93• 73
.05• 66.56• • 6 .
CLEANING
ETC.• 8.53• 8.71
• 9.58• 9.34• • 7 .
MISCELLANEO
US ● 2.84● 2.25●
53.93• 73.05• 66
.56• • 6.
CLEANING
ETC.• 8.53• 8.71
• 9.58• 9.34• • 7.
MISCELLANEO
US ● 2.84● 2.25●
73.05• 66.56• • 6
. CLEANING
ETC.• 8.53• 8.71
• 9.58• 9.34• • 7.
MISCELLANEO
US ● 2.84● 2.25●
66.56• • 6.
CLEANING
ETC.• 8.53• 8.71
• 9.58• 9.34• • 7 .
MISCELLANEO
US ● 2.84● 2.25●
• 6. CLEANING
ETC.• 8.53• 8.71
● 9.58● 9.34● ● 7.
MISCELLANEO
US ● 2.84● 2.25●
6. CLEANING
ETC.• 8.53• 8.71
• 9.58• 9.34• • 7.
MISCELLANEO
US● 2.84● 2.25●
8.53• 8.71• 9.58
• 9.34• • 7.
MISCELLANEO
US ● 2.84● 2.25●
8.71• 9.58• 9.34
• • 7.
MISCELLANEO
US• 2.84• 2.25•
9.58• 9.34• • 7 .
MISCELLANEO
USO 2 840 2 250
US• 2.84• 2.25•
9.34• • 7.
9.34• • 7.
9.34• • 7. MISCELLANEO
9.34• • 7. MISCELLANEO US• 2.84• 2.25•
9.34• • 7. MISCELLANEO
9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 7.
9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 7. MISCELLANEO
9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 7.
9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 7. MISCELLANEO US• 2.84• 2.25•
9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 7. MISCELLANEO US• 2.84• 2.25• 7.
9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 7. MISCELLANEO US• 2.84• 2.25• 7. MISCELLANEO
9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 7. MISCELLANEO US• 2.84• 2.25• 7. MISCELLANEO
9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 7. MISCELLANEO US• 2.84• 2.25• 7. MISCELLANEO US• 2.84• 2.25•
9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 7. MISCELLANEO US• 2.84• 2.25• 7. MISCELLANEO US• 2.84• 2.25• 2.84• 2.25• 2.53
9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 7. MISCELLANEO US• 2.84• 2.25• 7. MISCELLANEO US• 2.84• 2.25• 2.84• 2.25• 2.53 • 2.41• • TOTAL
9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 7. MISCELLANEO US• 2.84• 2.25• 7. MISCELLANEO US• 2.84• 2.25• 2.84• 2.25• 2.53 • 2.41• • TOTAL
9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 7. MISCELLANEO US• 2.84• 2.25• 7. MISCELLANEO US• 2.84• 2.25• 2.84• 2.25• 2.53 • 2.41• • TOTAL LABOUR USED
9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 7. MISCELLANEO US• 2.84• 2.25• 7. MISCELLANEO US• 2.84• 2.25• 2.84• 2.25• 2.53 • 2.41• • TOTAL LABOUR USED (DAYS/SEASON
9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 7. MISCELLANEO US• 2.84• 2.25• 7. MISCELLANEO US• 2.84• 2.25• 2.84• 2.25• 2.53 • 2.41• • TOTAL LABOUR USED
9.34• • 7. MISCELLANEO US• 2.84• 2.25• • 7. MISCELLANEO US• 2.84• 2.25• 7. MISCELLANEO US• 2.84• 2.25• 2.84• 2.25• 2.53 • 2.41• • TOTAL LABOUR USED (DAYS/SEASON

2.25• 2.53 • • TOT	
LABOUR I	JSED
(DAYS/SE))● 176● 350	
9• 664	
2.53• 2.41 TAL LABC	
USED	
(DAYS/SE))● 176● 350	
9● 664 2.41● ● T (
LABOUR I	JSED
(DAYS/SE))● 176● 350	
9• 664	
• TOTAL LABOUR I	JSED
(DAYS/SE))● 176● 350	ASON
9• 664	
TOTAL LABOUR I	JSED
(DAYS/SE	ASON
)● 176● 350 9● 664	• •
176• 350• 350• 1859•	
1859• 66	
664•	
664∙ ∙	
664• • 7.10	•
• • 7.10 SOURCE	• ES
664• • 7.10 SOURCE OF LABC	• ES DUR
664• • 7.10 SOURCE OF LABC In	• ES DUR this
664• • 7.10 SOURCE OF LABO In analysis	• ES DUR this the
664• • 7.10 SOURCE OF LABO In analysis extent	• S DUR this the of
664• • 7.10 SOURCE OF LABO In analysis	• ES DUR this the
664• • 7.10 SOURCE OF LABO In analysis extent	• S DUR this the of
664• • 7.10 SOURCE OF LABO In analysis extent labour	• S DUR this the of from and
664• • 7.10 SOURCE OF LABO In analysis extent labour family	• S DUR this the of from and
664• • 7.10 SOURCE OF LABO In analysis extent labour family hired so	• S DUR this the of from and urces been
664• • 7.10 SOURCE OF LABO In analysis extent labour family hired so have	• S DUR this the of from and urces been
664• • 7.10 SOURCE OF LABO In analysis extent labour family hired so have analysed	• S DUR this the of from and urces been and
664• • 7.10 SOURCE OF LABO In analysis extent labour family hired so have analysed result	• S DUR this the of from and urces been and d in

from the table
that at overall
level about 53
per cent
labour is
contributed by
hired hands
and rest from
family
sources. The
percentage of
hired labour
was very high
in Solan
(62%) as
against only
about 15% in
Shimla. The
category wise
analysis
indicates that
whereas small
farmers were
not at all
hiring labour
for mushroom
production,
the large
farmers were
fulfilling about
68 per cent of
labour
requirements
from hired
sources.

TABLE: 7.10 SOURCES OF LABOUR USED.
(%) SOURCE • CA TEGORY CATEGORY • • SMALL• • SMALL• • SMALL• ME DIUM• LARG E• OVERALL • SOLAN• • SMALL• MED IUM• LARGE • OVERALL• MEDIUM• LA RGE• OVERA LL• • SOLAN • HIRED• - • 40.00• 70.0 0• 62.27• • F AMILY• 100.0 0• 62.27• F AMILY• 100.0 0• 60.00• 30. 00• 37.73• LARGE• OVE RALL• • SOL AN• • HIRED
• 40.00• 70.0 0• 62.27• • F AMILY• 100.0 0• 60.00• 30. 00• 37.73• • OVERALL• • SOLAN• • H IRED• - • 40.00• 70.0 0• 62.27• • F AMILY• 100.0 0• 60.00• 30. 00• 37.73• • SOLAN• • HI RED• - • 40.00• 70.0 0• 62.27• • F AMILY• 100.0

0• 60.00• 30.
00• 37.73• •
• HIRED• -
• 40.00• 70.0
0• 62.27• • F
AMILY• 100.0
0• 60.00• 30.
00• 37.73• •
HIRED•-
• 40.00• 70.0
0∙ 62.27• • F
AMILY • 100.0
0• 60.00• 30.
00• 37.73• •
-
• 40.00• 70.0
0• 62.27• • F
AMILY• 100.0
0• 60.00• 30.
00• 37.73• •
40.00• 70.00
• 62.27• • FA
MILY• 100.00
• 60.00• 30.0
0• 37.73• • T
OTAL • 100.0
0• 100.00• 10
0.00• 100.00
70.00• 62.27
• • FAMILY•
62.27• • FAMI
LY • 100.00• 6
0.00• 30.00•
• FAMILY • 10
0.00• 60.00•
FAMILY 100.
00• 60.00• 30
.00• 37.73• •
100.00• 60.00
• 30.00• 37.7
3• • TOTAL •
60.00• 30.00
• 37.73• • TO
TAL • 100.00
• 100.00• 100
.00• 100.00•
30.00• 37.73
• • TOTAL• 1
00.00• 100.00
• 100.00• 100
.00• • SHIML
A• • HIRED• -

• 19.99• 13.0
4• 15.10• • F
AMILY • 100.0
0• 80.01• 86.
96• 84.90• •
37.73• • TOT
AL • 100.00• 1
00.00• 100.00
• 100.00• • S
HIMLA• • HIR
ED• -
• 19.99• 13.0
4● 15.10● ● F
AMILY • 100.0
0• 80.01• 86.
96• 84.90• •
• TOTAL • 100
.00• 100.00•
TOTAL• 100.
00• 100.00• 1
00.00• 100.00
• • SHIMLA•
100.00• 100.0
0• 100.00• 10
0.00• • SHIM
LA• • HIRED
• -
• 19.99• 13.0
• 19.99• 13.0
4● 15.10● ● F
4• 15.10• • F AMILY● 100.0
4• 15.10• • F AMILY• 100.0 0• 80.01• 86.
4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• •
4• 15.10• • F AMILY• 100.0 0• 80.01• 86.
4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• 100.0
4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• 100.0 0• 100.00• •
4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• 100.0 0• 100.00• • 100.00• 100.0
4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• 100.0 0• 100.00• •
4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• 100.0 0• 100.00• • 100.00• 100.0 0• • SHIMLA
4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• 100.0 0• 100.00• • 100.00• 100.0 0• • SHIMLA • • HIRED• -
4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• 100.0 0• 100.00• 1 100.00• 100.0 0• • SHIMLA • • HIRED• - • 19.99• 13.0
4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• 100.0 0• 100.00• 1 100.00• 100.0 0• • SHIMLA • • HIRED• - • 19.99• 13.0 4• 15.10• • F
4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• 100.0 0• 100.00• 1 100.00• 100.0 0• • SHIMLA • • HIRED• - • 19.99• 13.0 4• 15.10• • F
4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• 100.0 0• 100.00• • 100.00• 100.0 0• • SHIMLA • HIRED• - • 19.99• 13.0 4• 15.10• • F AMILY• 100.0
4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• 100.0 0• 100.00• 1 100.00• 100.0 0• • SHIMLA • • HIRED• - • 19.99• 13.0 4• 15.10• • F AMILY• 100.0 0• 80.01• 86.
4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• 100.0 0• 100.00• 1 100.00• 100.0 0• • SHIMLA • • HIRED• - • 19.99• 13.0 4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• •
4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• 100.0 0• 100.00• 1 100.00• 100.0 0• • SHIMLA • • HIRED• - • 19.99• 13.0 4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• •
4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• 100.0 0• 100.00• 1 100.00• 100.0 0• • SHIMLA • HIRED•- • 19.99• 13.0 4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• • SHI
4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• 100.0 0• 100.00• 1 100.00• 100.0 0• • SHIMLA • HIRED•- • 19.99• 13.0 4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• • SHI MLA• • HIRE
4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• 100.0 0• 100.00• 1 100.00• 100.0 0• • SHIMLA • HIRED• - • 19.99• 13.0 4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• • SHI MLA• • HIRE D• -
4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• 100.0 0• 100.00• 1 100.00• 100.0 0• • SHIMLA • HIRED• - • 19.99• 13.0 4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• • SHI MLA• • HIRE D• -
4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• 100.0 0• 100.00• 1 100.00• 100.0 0• • SHIMLA • • HIRED• - • 19.99• 13.0 4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• • SHI MLA• • HIRE D• - • 19.99• 13.0
4• 15.10• • F AMIL Y• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• 100.0 0• 100.00• 1 100.00• 100.0 0• • SHIMLA • HIRED•- • 19.99• 13.0 4• 15.10• • F AMIL Y• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• • SHI MLA• • HIRE D•- • 19.99• 13.0 4• 15.10• • F
4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• 100.0 0• 100.00• 1 100.00• 100.0 0• • SHIMLA • • HIRED• - • 19.99• 13.0 4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• • SHI MLA• • HIRE D• - • 19.99• 13.0
4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• 100.0 0• 100.00• 1 100.00• 100.0 0• • SHIMLA • HIRED• - • 19.99• 13.0 4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• • SHI MLA• • HIRE D• - • 19.99• 13.0 4• 15.10• • F AMILY• 100.0
4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• 100.0 0• 100.00• 1 100.00• 100.0 0• • SHIMLA • • HIRED• - • 19.99• 13.0 4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• • SHI MLA• • HIRE D• - • 19.99• 13.0 4• 15.10• • F AMILY• 100.0 0• 80.01• 86.
4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• 100.0 0• 100.00• 1 100.00• 100.0 0• • SHIMLA • HIRED•- • 19.99• 13.0 4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 19.99• 13.0 4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• •
4• 15.10• • F AMIL Y• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• 100.0 0• 100.00• 1 100.00• 100.0 0• • SHIMLA • HIRED•- • 19.99• 13.0 4• 15.10• • F AMIL Y• 100.0 0• 80.01• 86. 96• 84.90• • 10.00• • SHI MLA• • HIRE D•- • 19.99• 13.0 4• 15.10• • F AMIL Y• 100.0 0• 80.01• 86. 96• 84.90• • SHIMLA• •
4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 100.00• 100.0 0• 100.00• 1 100.00• 100.0 0• • SHIMLA • HIRED•- • 19.99• 13.0 4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• • 19.99• 13.0 4• 15.10• • F AMILY• 100.0 0• 80.01• 86. 96• 84.90• •

RED •- • 19.99• 13.0 4• 15.10• • F AMILY • 100.0 0• 80.01• 86. 96• 84.90• •
4• 15.10• • F AMILY• 100.0 0• 80.01• 86.
AMILY • 100.0 0• 80.01• 86.
0• 80.01• 86.
96● 84.90● ●
• HIRED• -
• 19.99• 13.0 4• 15.10• • F
AMILY 100.0
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-
• 19.99• 13.0
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AMILY • 100.0
0• 80.01• 86.
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MILY• 100.00 • 80.01• 86.9
• 80.01• 88.9 6• 84.90• • T
OTAL • 100.0
0• 100.00• 10
0.00• 100.00
• • OVERALL
• • HIRED• -
• 28.69• 67.5
9• 52.73• • F
AMILY • 100.0
0• 71.31• 32.
41• 47.27• •
13.04• 15.10
• • FAMILY•
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LY • 100.00• 8
0.01● 86.96● ● FAMILY ● 10
0.00• 80.01•
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00• 80.01• 86
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100.00• 80.01
• 86.96• 84.9
0• • TOTAL•
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• 84.90• • TO
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• • TOTAL• 1
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LL• • HIRED
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• 28.69• 67.5
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AL • 100.00• 1
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TOTAL• 100.
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_
• 28.69• 67.5
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AMILY• 100.0
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41• 47 27• •
41• 47.27• • 100 00• 100 0
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0• • OVERAL
L• • HIRED• - • 28.69• 67.5
• 28.69• 67.5 9• 52.73• • F
AMILY• 100.0
0● 71.31● 32. 41● 47.27● ●
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ERALL••HI RED•-
• 28.69• 67.5
9● 52.73● ● F AMILY● 100.0
0● 71.31● 32.
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• OVERALL• OVERALL• •
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• 28.69• 67.5 9• 52.73• • F
AMILY • 100.0
0• 71.31• 32. 41• 47.27• ∙
HIRED• -
• 28.69• 67.5 9• 52.73• • F
AMILY• 100.0
0• 71.31• 32.
41• 47.27• • -
• 28.69• 67.5
9• 52.73• • F AMILY● 100.0
0• 71.31• 32.
41∙ 47.27• ∙ 28.69• 67.59
• 52.73• • FA
MILY• 100.00 • 71.31• 32.4
• 71.31• 32.4 1• 47.27• • T
OTAL • 100.0
0• 100.00• 10 0.00• 100.00
• •
67.59• 52.73 • • FAMILY •
52.73• • FAMI
LY • 100.00• 7 1.31• 32.41•
• FAMILY • 10
0.00● 71.31● FAMILY● 100.

00• 71.31• 32 .41• 47.27• 1 100.00• 71.31 • 32.41• 47.2 7• TOTAL• 71.31• 32.41 • 47.27• TO TAL• 100.00 • 100.00• 100 .00• 100.00 32.41• 47.27 • TOTAL• 1 00.00• 100.00 • 100.00• 100 .00• 47.27• TOT AL• 100.00• 1 00.00• 100.00 • 100.00• 1 00.00• 100.00 TOTAL• 100 .00• 100.00• 1 00.00• 100.00 • 100.00• 100.00
• NOTE: PERCENTAG ES FROM RESPECTIVE TOTALS.
7.11 NET RETURNS
The net
returns from
mushroom
cultivation
were very

high in Solon
high in Solan,
Rs.68732 per
season as
compared
with Shimla
where the
figure stood at
Rs.25927 per
farm per
season. At
overall level
each sampled
farmer had a
net return of
Rs.50386 per
season. As
expected the
net returns
were directly
correlated
with farm size
in both the
districts
(Table 7.11).
(,

TABLE: 7.11 NET RETURNS FROM MUSHROOM CULTIVATIO N.
(RS./FARM) PARTICULAR S• CATEGOR Y CATEGORY •• SMALL• • SMALL• • SMALL• ME DIUM• LARG E• OVERALL • SOLAN•• SMALL• MED IUM• LARGE • OVERALL• MEDIUM• LA RGE• OVERA LL• SOLAN • TOTAL YIELD (KG.)• 708• 1 600• 9600• 4 400• • GROS S INCOME• 283 90• 64378• 3 72450• 16910 9• • TOTAL COST• 17421 66• 41603• 2 17678• 10037 7• • NET RETURNS• 1 0968• 22775
• 154773• 68 732• • SHIML A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1 600• • GROS S

INCOME • 342
28• 67690• 2
45018• 68358
• • TOTAL
COST • 21756
• 43618• 135
108• 42431•
LARGE• OVE
RALL. • SOL
AN• • TOTAL
-
YIELD
(KG.) ● 708● 1
600• 9600• 4
400• • GROS
S
INCOME • 283
90• 64378• 3
72450• 16910
9• • TOTAL
COST• 17421
66• 41603• 2
17678• 10037
7• • NET
RETURNS • 1
0968• 22775
• 154773• 68
732• • SHIMI
732• • SHIML
A• • TOTAL
A• • TOTAL
A•• TOTAL YIELD
A• • TOTAL YIELD (KG.)• 860• 1
A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1
A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1
A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1 600• • GROS
A••TOTAL YIELD (KG.)•860•1 605•5250•1 600••GROS S
A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1 600• • GROS
A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1 600• • GROS S INCOME• 342
A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2
A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358
A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • • TOTAL
A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • • TOTAL
A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • • TOTAL COST• 21756
A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • TOTAL COST• 21756 • 43618• 135
A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • • TOTAL COST• 21756
A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • • TOTAL COST• 21756 • 43618• 135 108• 42431•
A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • TOTAL COST• 21756 • 43618• 135 108• 42431• OVERALL•
A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • TOTAL COST• 21756 • 43618• 135 108• 42431• OVERALL• • SOLAN• • T
A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • TOTAL COST• 21756 • 43618• 135 108• 42431• OVERALL•
A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • TOTAL COST• 21756 • 43618• 135 108• 42431• OVERALL• • SOLAN• • T OTAL YIELD
A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • TOTAL COST• 21756 • 43618• 135 108• 42431• OVERALL• • SOLAN• • T OTAL YIELD (KG.)• 708• 1
A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • TOTAL COST• 21756 • 43618• 135 108• 42431• OVERALL• • SOLAN• • T OTAL YIELD (KG.)• 708• 1 600• 9600• 4
A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • TOTAL COST• 21756 • 43618• 135 108• 42431• OVERALL• • SOLAN• • T OTAL YIELD (KG.)• 708• 1
A• • TOTAL YIELD (KG.)• 860• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • TOTAL COST• 21756 • 43618• 135 108• 42431• OVERALL• • SOLAN• • T OTAL YIELD (KG.)• 708• 1 600• 9600• 4 400• • GROS
A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • TOTAL COST• 21756 • 43618• 135 108• 42431• OVERALL• • • SOLAN• • T OTAL YIELD (KG.)• 708• 1 600• 9600• 4 400• • GROS S
A• • TOTAL YIELD (KG.)• 860• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • TOTAL COST• 21756 • 43618• 135 108• 42431• OVERALL• • SOLAN• • T OTAL YIELD (KG.)• 708• 1 600• 9600• 4 400• • GROS
A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • TOTAL COST• 21756 • 43618• 135 108• 42431• OVERALL• • SOLAN• • T OTAL YIELD (KG.)• 708• 1 600• 9600• 4 400• • GROS S INCOME• 283
A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • • TOTAL COST• 21756 • 43618• 135 108• 42431• OVERALL• • SOLAN• • T OTAL YIELD (KG.)• 708• 1 600• 9600• 4 400• • GROS S INCOME• 283 90• 64378• 3
A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • TOTAL COST• 21756 • 43618• 135 108• 42431• OVERALL• • SOLAN• • T OTAL YIELD (KG.)• 708• 1 600• 9600• 4 400• • GROS S INCOME• 283 90• 64378• 3 72450• 16910
A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • TOTAL COST• 21756 • 43618• 135 108• 42431• OVERALL• • SOLAN• • T OTAL YIELD (KG.)• 708• 1 600• 9600• 4 400• • GROS S INCOME• 283 90• 64378• 3 72450• 16910 9• • TOTAL
A• • TOTAL YIELD (KG.)• 860• 1 605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • TOTAL COST• 21756 • 43618• 135 108• 42431• OVERALL• • SOLAN• • T OTAL YIELD (KG.)• 708• 1 600• 9600• 4 400• • GROS S INCOME• 283 90• 64378• 3 72450• 16910

66• 41603• 2
17678• 10037
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RETURNS • 1
0968• 22775
• 154773• 68
732• • SHIML
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YIELD
(KG.) ● 860● 1
605• 5250• 1
600• • GROS
S
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600• 9600• 4
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COST• 17421
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RETURNS • 1
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• 154773• 68
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A• • TOTAL
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(KG.)• 860• 1
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YIELD (KG.)• 708• 1 600• 9600• 4 400• • GROS
S INCOME • 283 90• 64378• 3 72450• 16910
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17678• 10037 7• • NET RETURNS• 1 0968• 22775
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••TOTAL COST•21756 •43618•135 108•42431•
TOTAL YIELD (KG.)• 708• 1
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INCOME• 283 90• 64378• 3 72450• 16910 9• • TOTAL
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RETURNS • 1 0968• 22775 • 154773• 68
732••SHIML A••TOTAL YIELD (KG.)•860•1
605• 5250• 1

600• • GROS
S
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YIELD
(KG.)● 860● 1
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605• 5250• 1 600• • GROS S
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605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • TOTAL COST• 21756 • 43618• 135 108• 42431• 28390• 64378 • 372450• 16
605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • TOTAL COST• 21756 • 43618• 135 108• 42431• 28390• 64378 • 372450• 16 9109• • TOTA
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605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • TOTAL COST• 21756 • 43618• 135 108• 42431• 28390• 64378 • 372450• 16 9109• • TOTA L COST• 17421 66• 41603• 2
605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • TOTAL COST• 21756 • 43618• 135 108• 42431• 28390• 64378 • 372450• 16 9109• • TOTA L COST• 17421 66• 41603• 2 17678• 10037
605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • TOTAL COST• 21756 • 43618• 135 108• 42431• 28390• 64378 • 372450• 16 9109• • TOTA L COST• 17421 66• 41603• 2 17678• 10037 7• • NET
605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • TOTAL COST• 21756 • 43618• 135 108• 42431• 28390• 64378 • 372450• 16 9109• • TOTA L COST• 17421 66• 41603• 2 17678• 10037 7• • NET RETURNS• 1
605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • TOTAL COST• 21756 • 43618• 135 108• 42431• 28390• 64378 • 372450• 16 9109• • TOTA L COST• 17421 66• 41603• 2 17678• 10037 7• • NET
605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • TOTAL COST• 21756 • 43618• 135 108• 42431• 28390• 64378 • 372450• 16 9109• • TOTA L COST• 17421 66• 41603• 2 17678• 10037 7• • NET RETURNS• 1 0968• 22775
605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • TOTAL COST• 21756 • 43618• 135 108• 42431• 28390• 64378 • 372450• 16 9109• • TOTA L COST• 17421 66• 41603• 2 17678• 10037 7• • NET RETURNS• 1

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YIELD
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COST • 21756
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09• • TOTAL
COST• 17421
66• 41603• 2
17678• 10037
7• • NET
RETURNS• 1
0968• 22775
• 154773• 68
732• • SHIML
A• • TOTAL
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605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2
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605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • • TOTAL COST• 21756
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605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • TOTAL COST• 21756 • 43618• 135 108• 42431• 169109• • TO TAL COST• 17421 66• 41603• 2 17678• 10037 7• • NET RETURNS• 1 0968• 22775 • 154773• 68
605• 5250• 1 600• • GROS S INCOME• 342 28• 67690• 2 45018• 68358 • • TOTAL COST• 21756 • 43618• 135 108• 42431• 169109• • TO TAL COST• 17421 66• 41603• 2 17678• 10037 7• • NET RETURNS• 1 0968• 22775 • 154773• 68 732• • SHIML
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RETURNS • 1
2472• 24072
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927• • OVER
ALL• • TOTA
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(KG.)● 800● 1
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600• 9094• 3 171• • GROS S INCOME• 310 44• 66301• 3 57458• 12593
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600• 9094• 3 171• • GROS S INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL
600• 9094• 3 171• • GROS S INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395
600• 9094• 3 171• • GROS S INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395 • 42773• 207
600• 9094• 3 171• • GROS S INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395 • 42773• 207 965• 75544•
600• 9094• 3 171• • GROS S INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395 • 42773• 207
600• 9094• 3 171• • GROS S INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395 • 42773• 207 965• 75544• 43618• 13510
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RETURNS• 1
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COST• 19395
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RETURNS• 1
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RETURNS• 1
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L YIELD (KG.)• 800• 1 600• 9094• 3 171• • GROS S INCOME• 310
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L YIELD (KG.)• 800• 1 600• 9094• 3 171• • GROS S INCOME• 310 44• 66301• 3 57458• 12593
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L YIELD (KG.)• 800• 1 600• 9094• 3 171• • GROS S INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL
L YIELD (KG.)• 800• 1 600• 9094• 3 171• • GROS S INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395
L YIELD (KG.)• 800• 1 600• 9094• 3 171• • GROS S INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395 • 42773• 207
L YIELD (KG.)• 800• 1 600• 9094• 3 171• • GROS S INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395 • 42773• 207
L YIELD (KG.)• 800• 1 600• 9094• 3 171• • GROS S INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395 • 42773• 207 965• 75544•
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L YIELD (KG.)• 800• 1 600• 9094• 3 171• • GROS S INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395 • 42773• 207 965• 75544• 12472• 24072 • 109910• 25 927• • OVER
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L YIELD (KG.)• 800• 1 600• 9094• 3 171• • GROS S INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395 • 42773• 207 965• 75544• 12472• 24072 • 109910• 25 927• • OVER
L YIELD (KG.)• 800• 1 600• 9094• 3 171• • GROS S INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395 • 42773• 207 965• 75544• 12472• 24072 • 109910• 25 927• • OVER ALL• • TOTA L YIELD
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L YIELD (KG.)• 800• 1 600• 9094• 3 171• • GROS S INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395 • 42773• 207 965• 75544• 12472• 24072 • 109910• 25 927• • OVER ALL• • TOTA L YIELD (KG.)• 800• 1 600• 9094• 3 171• • GROS S INCOME• 310 44• 66301• 3
L YIELD (KG.)• 800• 1 600• 9094• 3 171• • GROS S INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395 • 42773• 207 965• 75544• 12472• 24072 • 109910• 25 927• • OVER ALL• • TOTA L YIELD (KG.)• 800• 1 600• 9094• 3 171• • GROS S INCOME• 310 44• 66301• 3 57458• 12593

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INCOME • 310
44• 66301• 3
57458• 12593
0• • TOTAL
COST • 19395
• 42773• 207
965• 75544•
109910• 2592
7• • OVERAL
L• • TOTAL
-
YIELD
(KG.)● 800● 1
600• 9094• 3
171• • GROS
S
INCOME • 310
44• 66301• 3
57458• 12593
0• • TOTAL
COST• 19395
• 42773• 207
965• 75544•
25927•• OVE
RALL• • TOT
AL YIELD
(KG.)● 800● 1
600• 9094• 3
171• • GROS
S
INCOME • 310
44• 66301• 3
57458• 12593
0• • TOTAL
COST• 19395
• 42773• 207
965• 75544•
• OVERALL•
OVERALL••
• TOTAL
YIELD
(KG.)● 800● 1
600• 9094• 3
000- 3034- 3

171• • GROS
S
INCOME • 310
44• 66301• 3
57458• 12593
0• • TOTAL
COST • 19395
• 42773• 207
965∙ 75544∙ TOTAL
YIELD
(KG.) ● 800● 1 600● 9094● 3
171• • GROS
S
5 INCOME• 310
44• 66301• 3
57458• 12593
0• • TOTAL
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965• 75544•
800• 1600• 9
094• 3171• •
1600• 9094•
9094• 3171•
3171• • GRO
SS
INCOME • 310
44• 66301• 3
57458• 12593
0• • TOTAL
COST• 19395
• 42773• 207
965• 75544•
• GROSS
• GROSS INCOME• 310
• GROSS INCOME• 310 44• 66301• 3
• GROSS INCOME• 310 44• 66301• 3 57458• 12593
• GROSS INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL
• GROSS INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395
• GROSS INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395 • 42773• 207
• GROSS INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395 • 42773• 207 965• 75544•
• GROSS INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395 • 42773• 207 965• 75544• GROSS
• GROSS INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395 • 42773• 207 965• 75544• GROSS INCOME• 310
• GROSS INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395 • 42773• 207 965• 75544• GROSS INCOME• 310 44• 66301• 3
• GROSS INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395 • 42773• 207 965• 75544• GROSS INCOME• 310 44• 66301• 3 57458• 12593
• GROSS INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395 • 42773• 207 965• 75544• GROSS INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL
• GROSS INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395 • 42773• 207 965• 75544• GROSS INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395
• GROSS INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395 • 42773• 207 965• 75544• GROSS INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395 • 42773• 207
• GROSS INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395 • 42773• 207 965• 75544• GROSS INCOME• 310 44• 66301• 3 57458• 12593 0• TOTAL COST• 19395 • 42773• 207 965• 75544•
• GROSS INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395 • 42773• 207 965• 75544• GROSS INCOME• 310 44• 66301• 3 57458• 12593 0• • TOTAL COST• 19395 • 42773• 207

5000 - ТОТА
5930• • TOTA L
L COST• 19395
• 42773• 207
965• 75544•
66301• 35745
8• 125930• •
357458• 1259
30• • TOTAL
COST• 19395
• 42773• 207
965• 75544•
125930• • TO
TAL COST• 19395
• 42773• 207
965• 75544•
• TOTAL
COST • 19395
• 42773• 207
965• 75544•
TOTAL
COST• 19395
• 42773• 207
965• 75544•
19395• 42773
• 207965• 75 544• • NET
RETURNS• 1
1649• 23528
• 149493• 50
386••
42773• 20796
5• 75544• • N
ET
RETURNS• 1
1649• 23528
• 149493• 50
386• •
207965• 7554
4• • NET RETURNS• 1
1649• 23528
• 149493• 50
386●●
75544• • NET
RETURNS• 1
1649• 23528
• 149493• 50
386• •
• NET
RETURNS• 1
1649• 23528

• 149493• 50 386• •
386•• NET RETURNS•1 1649•23528 •149493•50 386•• 11649•23528 •149493•50 386•• 23528•14949 3•50386•• 149493•5038 6•• 50386••
7.12
OUTPUT
INPUT RATIO
The output-
input ratios
have been
presented in
Table 7.12 for
different
categories of
farmers and
over different
costs. The
results of
analysis
indicate that
farmers of
Shimla are
more efficient
of cost A and
B are
considered

but if cost C is
taken in to
consideration
the farmers of
Solan are
more efficient.
The class
wise results
indicate that
small category
farmers are
most efficient
followed by
medium and
large if costs
A and B are
considered.
The large
farmers are
most efficient
is cost C is
under
consideration.
TABLE: 7.12
OUTPUT- INPUT
RATIOS.
COSTS• CAT
EGORY
CATEGORY
•••SMALL•

• • SMALL•
• SMALL• ME
DIUM• LARG
E• OVERALL
-
• • SOLAN• •
SMALL• MED
IUM• LARGE
OVERALL
MEDIUM• LA
RGE• OVERA
LL• • SOLAN
 COST
A• 3.19• 2.11
● 1.98● 2.04●
LARGE• OVE
RALL••SOL
AN● • COST
A● 3.19● 2.11
● 1.98● 2.04●
OVERALL• •
• SOLAN • • C
OST
A• 3.19• 2.11
● 1.98● 2.04●
SOLAN• • CO
ST
A● 3.19● 2.11
• 1.98• 2.04•
COST
A• 3.19• 2.11
● 1.98● 2.04●
COST
A• 3.19• 2.11
• 1.98• 2.04•
3.19• 2.11• 1.
98• 2.04• • C
OST
B ● 3.18● 2.10
• 1.98• 2.04•
2.11• 1.98• 2.
04• • COST
B ● 3.18● 2.10
● 1.98● 2.04●
1.98• 2.04• •
2.04• • COST
B ● 3.18● 2.10
● 1.98● 2.04●
• COST
B• 3.18• 2.10
• 1.98• 2.04•
COST
B● 3.18● 2.10

• 1.98• 2.04•
3.18• 2.10• 1.
98∙ 2.04• • C
OST
C ● 1.62● 1.55
● 1.71● 1.68●
2.10• 1.98• 2.
04• • COST
C● 1.62• 1.55
● 1.71● 1.68●
1.98• 2.04• •
2.04• • COST
C● 1.62● 1.55
• 1.71• 1.68•
COST
C ● 1.62● 1.55
• 1.71• 1.68•
COST
C ● 1.62● 1.55
• 1.71• 1.68•
1.62• 1.55• 1.
71• 1.68• • S
HIMLA• • CO
ST
A ● 2.73● 2.28
• 2.31• 2.35•
1.55• 1.71• 1.
68• • SHIMLA
68• • SHIMLA • • COST
68• • SHIMLA
68•• SHIMLA • COST A• 2.73• 2.28
68•• SHIMLA • COST A• 2.73• 2.28 • 2.31• 2.35•
68•• SHIMLA • COST A• 2.73• 2.28 • 2.31• 2.35• 1.71• 1.68• •
68• • SHIMLA • COST A• 2.73• 2.28 • 2.31• 2.35• 1.71• 1.68• • 1.68• • SHIM
68• • SHIMLA • COST A• 2.73• 2.28 • 2.31• 2.35• 1.71• 1.68• • 1.68• • SHIM
68•• SHIMLA •• COST A• 2.73• 2.28 • 2.31• 2.35• 1.71• 1.68• • 1.68•• SHIM LA•• COST
68•• SHIMLA •• COST A• 2.73• 2.28 • 2.31• 2.35• 1.71• 1.68• 1.68•• SHIM LA•• COST A• 2.73• 2.28
68•• SHIMLA •• COST A• 2.73• 2.28 • 2.31• 2.35• 1.71• 1.68• • 1.68•• SHIM LA•• COST
68•• SHIMLA • COST A• 2.73• 2.28 • 2.31• 2.35• 1.71• 1.68• • 1.68• • SHIM LA•• COST A• 2.73• 2.28 • 2.31• 2.35•
68••SHIMLA •COST A•2.73•2.28 •2.31•2.35• 1.71•1.68•• 1.68••SHIM LA••COST A•2.73•2.28 •2.31•2.35• •SHIMLA••
68•• SHIMLA •• COST A• 2.73• 2.28 • 2.31• 2.35• 1.71• 1.68• 1.68•• SHIM LA•• COST A• 2.73• 2.28 • 2.31• 2.35• • SHIMLA•• C
68••SHIMLA •COST A•2.73•2.28 •2.31•2.35• 1.71•1.68•• 1.68••SHIM LA••COST A•2.73•2.28 •2.31•2.35• •SHIMLA••
68•• SHIMLA •• COST A• 2.73• 2.28 • 2.31• 2.35• 1.71• 1.68• • 1.68•• SHIM LA•• COST A• 2.73• 2.28 • 2.31• 2.35• • SHIMLA•• C SHIMLA•• C OST
68•• SHIMLA • COST A• 2.73• 2.28 • 2.31• 2.35• 1.71• 1.68• • 1.68• • SHIM LA•• COST A• 2.73• 2.28 • 2.31• 2.35• • SHIMLA• • SHIMLA• • C OST A• 2.73• 2.28
68••SHIMLA •COST A•2.73•2.28 •2.31•2.35• 1.71•1.68• 1.68••SHIM LA••COST A•2.73•2.28 •2.31•2.35• •SHIMLA••C OST A•2.73•2.28 •2.31•2.35•
68•• SHIMLA • COST A• 2.73• 2.28 • 2.31• 2.35• 1.71• 1.68• • 1.68• • SHIM LA•• COST A• 2.73• 2.28 • 2.31• 2.35• • SHIMLA• • SHIMLA• • C OST A• 2.73• 2.28
68•• SHIMLA • COST A• 2.73• 2.28 • 2.31• 2.35• 1.71• 1.68• • 1.68•• SHIM LA•• COST A• 2.73• 2.28 • 2.31• 2.35• • SHIMLA•• C OST A• 2.73• 2.28 • 2.31• 2.35• • 2.31• 2.35• • COST
68•• SHIMLA • COST A• 2.73• 2.28 • 2.31• 2.35• 1.71• 1.68• • 1.68• • SHIM LA•• COST A• 2.73• 2.28 • 2.31• 2.35• • SHIMLA• • C OST A• 2.73• 2.28 • 2.31• 2.35• • COST A• 2.73• 2.28
68•• SHIMLA • COST A• 2.73• 2.28 • 2.31• 2.35• 1.71• 1.68• • 1.68• • SHIM LA•• COST A• 2.73• 2.28 • SHIMLA• • SHIMLA• • C OST A• 2.73• 2.28 • 2.31• 2.35• • COST A• 2.73• 2.28 • 2.31• 2.35•
68•• SHIMLA • COST A• 2.73• 2.28 • 2.31• 2.35• 1.71• 1.68• • 1.68• • SHIM LA•• COST A• 2.73• 2.28 • 2.31• 2.35• • SHIMLA• • C OST A• 2.73• 2.28 • 2.31• 2.35• • COST A• 2.73• 2.28
68• • SHIMLA • COST A• 2.73• 2.28 • 2.31• 2.35• 1.71• 1.68• • 1.68• • SHIM LA• • COST A• 2.73• 2.28 • SHIMLA• • SHIMLA• • C OST A• 2.73• 2.28 • 2.31• 2.35• • COST A• 2.73• 2.28 • 2.31• 2.35• COST
68• • SHIMLA • COST A• 2.73• 2.28 • 2.31• 2.35• 1.71• 1.68• • 1.68• • SHIM LA• • COST A• 2.73• 2.28 • 2.31• 2.35• • SHIMLA• • C OST A• 2.73• 2.28 • 2.31• 2.35• • COST A• 2.73• 2.28 • 2.31• 2.35• COST A• 2.73• 2.28 • 2.31• 2.35• COST A• 2.73• 2.28
68• • SHIMLA • COST A• 2.73• 2.28 • 2.31• 2.35• 1.71• 1.68• • 1.68• • SHIM LA• • COST A• 2.73• 2.28 • SHIMLA• • SHIMLA• • C OST A• 2.73• 2.28 • 2.31• 2.35• • COST A• 2.73• 2.28 • 2.31• 2.35• COST A• 2.73• 2.28 • 2.31• 2.35• COST A• 2.73• 2.28 • 2.31• 2.35•
68• • SHIMLA • COST A• 2.73• 2.28 • 2.31• 2.35• 1.71• 1.68• • 1.68• • SHIM LA• • COST A• 2.73• 2.28 • SHIMLA• • SHIMLA• • C OST A• 2.73• 2.28 • 2.31• 2.35• • COST A• 2.73• 2.28 • 2.31• 2.35• COST A• 2.73• 2.28 • 2.31• 2.35• COST A• 2.73• 2.28 • 2.31• 2.35•
68• • SHIMLA • COST A• 2.73• 2.28 • 2.31• 2.35• 1.71• 1.68• • 1.68• • SHIM LA• • COST A• 2.73• 2.28 • SHIMLA• • SHIMLA• • C OST A• 2.73• 2.28 • 2.31• 2.35• • COST A• 2.73• 2.28 • 2.31• 2.35• COST A• 2.73• 2.28 • 2.31• 2.35• COST A• 2.73• 2.28 • 2.31• 2.35• COST
68• • SHIMLA • COST A• 2.73• 2.28 • 2.31• 2.35• 1.71• 1.68• • 1.68• • SHIM LA• • COST A• 2.73• 2.28 • 2.31• 2.35• • SHIMLA• • C OST A• 2.73• 2.28 • 2.31• 2.35• • COST A• 2.73• 2.28 • 2.31• 2.35• COST A• 2.73• 2.28 • 2.31• 2.35• COST A• 2.73• 2.28 • 2.31• 2.35• 2.73• 2.28• 2. 31• 2.35• • C
68• • SHIMLA • COST A• 2.73• 2.28 • 2.31• 2.35• 1.71• 1.68• • 1.68• • SHIM LA• • COST A• 2.73• 2.28 • SHIMLA• • SHIMLA• • C OST A• 2.73• 2.28 • 2.31• 2.35• • COST A• 2.73• 2.28 • 2.31• 2.35• COST A• 2.73• 2.28 • 2.31• 2.35• COST A• 2.73• 2.28 • 2.31• 2.35• COST
68• • SHIMLA • COST A• 2.73• 2.28 • 2.31• 2.35• 1.71• 1.68• • 1.68• • SHIM LA• • COST A• 2.73• 2.28 • 2.31• 2.35• • SHIMLA• • C OST A• 2.73• 2.28 • 2.31• 2.35• • COST A• 2.73• 2.28 • 2.31• 2.35• COST A• 2.73• 2.28 • 2.31• 2.35• • COST A• 2.73• • 2.35• • COST A• 2.73• • 2.58• • COST A• 2.73• • 2.58• • COST A• 2.73• • 2.58• • COST A• 2.73• • 2.58• • COST • COST
68• • SHIMLA • COST A• 2.73• 2.28 • 2.31• 2.35• 1.71• 1.68• • 1.68• • SHIM LA• • COST A• 2.73• 2.28 • 2.31• 2.35• • SHIMLA• • C OST A• 2.73• 2.28 • 2.31• 2.35• • COST A• 2.73• 2.28 • 2.31• 2.35• COST A• 2.73• 2.28 • 2.31• 2.35• COST A• 2.73• 2.28 • 2.31• 2.35• 2.73• 2.28• 2. 31• 2.35• • C

2.28• 2.31• 2.
35• • COST
B● 2.72● 2.27
• 2.30• 2.34•
2.31• 2.35• •
2.35• • COST
B● 2.72● 2.27
• 2.30• 2.34•
• COST
B ● 2.72● 2.27
• 2.30• 2.34•
COST
B ● 2.72● 2.27
• 2.30• 2.34•
2.72• 2.27• 2.
30• 2.34• • C
OST
C● 1.57● 1.55
• 1.81• 1.61•
2.27• 2.30• 2.
34• • COST
C ● 1.57● 1.55
• 1.81• 1.61•
2.30• 2.34• •
2.34• • COST
C ● 1.57● 1.55
• 1.81• 1.61•
COST
C ● 1.57● 1.55
• 1.81• 1.61•
COST
C ● 1.57● 1.55
• 1.81• 1.61•
1.57• 1.55• 1.
81• 1.61• • O
VERALL••C
OST
A ● 2.94● 2.21
• 2.01• 2.11•
1.55• 1.81• 1.
61•• OVERA
LL• • COST
A● 2.94● 2.21
• 2.01• 2.11•
1.81• 1.61• •
1.61• • OVER
ALL. • COST
A ● 2.94● 2.21
• 2.01• 2.11•
• OVERALL•
OVERALL• •
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A ● 2.94● 2.21
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• 2.01• 2.11•
2.94• 2.21• 2.
01• 2.11• • C
OST
B● 2.93● 2.20
• 2.01• 2.10•
2.21• 2.01• 2.
11• • COST
B ● 2.93● 2.20
• 2.01• 2.10•
2.01• 2.11• •
2.11• • COST
B ● 2.93● 2.20
• 2.01• 2.10•
COST
B● 2.93● 2.20
• 2.01• 2.10•
COST
B ● 2.93● 2.20
• 2.01• 2.10•
2.93• 2.20• 2.
01• 2.10• • C
OST
C● 1.60● 1.55
• 1.72• 1.66•
2.20• 2.01• 2.
10• • COST
C● 1.60● 1.55
● 1.72● 1.66●
2.01• 2.10• •
2.10• • COST
C● 1.60● 1.55
• 1.72• 1.66•
COST
C ● 1.60● 1.55
• 1.72• 1.66•
COST
COST C● 1.60• 1.55
COST C● 1.60• 1.55
COST C • 1.60• 1.55 • 1.72• 1.66•
COST C • 1.60• 1.55 • 1.72• 1.66•
COST C • 1.60• 1.55 • 1.72• 1.66• 1.60• 1.55• 1.
COST C • 1.60• 1.55 • 1.72• 1.66• 1.60• 1.55• 1. 72• 1.66• •
COST C • 1.60• 1.55 • 1.72• 1.66• 1.60• 1.55• 1.
COST C • 1.60• 1.55 • 1.72• 1.66• 1.60• 1.55• 1. 72• 1.66• • 1.55• 1.72• 1.
COST C • 1.60• 1.55 • 1.72• 1.66• 1.60• 1.55• 1. 72• 1.66• • 1.55• 1.72• 1. 66• •
COST C • 1.60• 1.55 • 1.72• 1.66• 1.60• 1.55• 1. 72• 1.66• • 1.55• 1.72• 1. 66• • 1.72• 1.66• •
COST C • 1.60• 1.55 • 1.72• 1.66• 1.60• 1.55• 1. 72• 1.66• • 1.55• 1.72• 1. 66• •
COST C • 1.60• 1.55 • 1.72• 1.66• 1.60• 1.55• 1. 72• 1.66• • 1.55• 1.72• 1. 66• • 1.72• 1.66• • 1.66• •
COST C • 1.60• 1.55 • 1.72• 1.66• 1.60• 1.55• 1. 72• 1.66• • 1.55• 1.72• 1. 66• • 1.72• 1.66• •
COST C • 1.60• 1.55 • 1.72• 1.66• 1.60• 1.55• 1. 72• 1.66• • 1.55• 1.72• 1. 66• • 1.72• 1.66• • 1.66• •
COST C • 1.60• 1.55 • 1.72• 1.66• 1.60• 1.55• 1. 72• 1.66• • 1.55• 1.72• 1. 66• • 1.72• 1.66• • 1.66• •

7.13 BREAK- EVEN ANALYSIS The break even volume is that volume of production at which the farmers have no profit or loss. For this purpose the cost has been taken to be variable cost plus
EVEN ANALYSIS The break even volume is that volume of production at which the farmers have no profit or loss. For this purpose the cost has been taken to be variable cost plus
ANALYSIS The break even volume is that volume of production at which the farmers have no profit or loss. For this purpose the cost has been taken to be variable cost plus
The break even volume is that volume of production at which the farmers have no profit or loss. For this purpose the cost has been taken to be variable cost plus
even volume is that volume of production at which the farmers have no profit or loss. For this purpose the cost has been taken to be variable cost plus
even volume is that volume of production at which the farmers have no profit or loss. For this purpose the cost has been taken to be variable cost plus
of production at which the farmers have no profit or loss. For this purpose the cost has been taken to be variable cost plus
at which the farmers have no profit or loss. For this purpose the cost has been taken to be variable cost plus
farmers have no profit or loss. For this purpose the cost has been taken to be variable cost plus
no profit or loss. For this purpose the cost has been taken to be variable cost plus
loss. For this purpose the cost has been taken to be variable cost plus
purpose the cost has been taken to be variable cost plus
cost has been taken to be variable cost plus
taken to be variable cost plus
variable cost plus
plus
•
depreciation
and interest
on fixed cost.
The results
have been
presented in
Table 7.13
which indicate
that farmers
at overall level
need to
produce only
about 747 kg
of mushroom
per season
whereas the
actual
production

was obs	served
to be	about
3170	kg.
Even	а
cursory	look
at the	table
reveals	that
each ca	tegory
in both	n the
district	had
producti	on
level f	ar in
excess	of
break	even
volume.	
TABLE:	7.13
BREAK	
ANAL IS	513.
COSTS EGO	
CATEG	
• • • SM	IALL•

• SMALL• ME • SMALL• ME DIUM• LARG • OVERALL • SOLAN•• SMALL• MED IUM• LARGE • OVERALL• MEDIUM• LA RGE• OVERA LL• SOLAN • Total Fixed cost/year• 85 2.08• 1109.61 • 3029.26• 17 52.22• • Total Veriable cost/year• 89 00.83• 3050.3 0• 187385.13 • 82854.52•• LARGE• OVE RALL• SOL AN• • Total Fixed Cost/year• 85 2.08• 1109.61 • 3029.26• 17 52.22• • Total Veriable cost/year• 89 00.83• 3050.3 0• 187385.13 • 82854.52• LARGE• OVE RALL• SOL AN• • Total Fixed Cost/year• 85 2.08• 1109.61 • 3029.26• 17 52.22• • Total Veriable cost/year• 89 00.83• 3050.3 0• 187385.13 • 82854.52• OVERALL• • SOLAN• • T otal Fixed Cost/year• 85 2.08• 1109.61 • 3029.26• 17 52.22• • Total Veriable Cost/year• 85 2.08• 1109.61 • 3029.26• 17 52.22• • Total	
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cost/yeare 89
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• 82854.52• •
Total
Veriable
cost/year● 89
00.83• 3050.3
0• 187385.13
• 82854.52• •
8900.83• 305
0.30• 187385.
13• 82854.52
Average
sale price 1
kg. ● 40.08● 3
9.20• 38.77•
3050.30• 187
385.13• 8285
4.52• • Avera
ge sale price
1
kq.● 40.08● 3
9.20• 38.77•
187385.13• 8
2854.52• • Av
erage sale
price 1
kg.● 40.08● 3
9.20• 38.77•
82854.52● • A
verage sale
price 1
kg.● 40.08● 3
9.20• 38.77•
 Average
sale price 1
kg. • 40.08• 3
9.20• 38.77•
Average sale
price 1
kg.● 40.08● 3
9.20• 38.77•
40.08• 39.20
• 38.77• 39.3
5• • Break-
even volum
(kgs)● 243.33
• 106.12• 491
1.38• 2150.10
 Actual
Production
kg/season• 7
08.33• 1642.3
0• 9606.66• 4

348.75• • SHI
MLA● ● Total
Fixed
cost/year● 92
4.00• 1389.16
• 2914.50• 13
35.80• • Total
Veriable
cost/year● 12
515.70• 2972
6.94• 105962
• 29-
72.20• • Aver
age sale
price 1
kg.● 39.80● 4
2.16• 46.67•
39.20• 38.77
• 39.35• • Bre
ak-even
volum
(kgs)• 243.33
• 106.12• 491
1.38• 2150.10
 Actual
Production
kg/season● 7
08.33• 1642.3
0• 9606.66• 4
348.75• • SHI
MLA• • Total
Fixed
cost/year● 92
4.00• 1389.16
• 2914.50• 13
35.80• • Total
Veriable
cost/year● 12
515.70• 2972
6.94• 105962
• 29-
72.20• • Aver
age sale
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price 1
price 1
kg.● 39.80● 4
kg.● 39.80● 4 2.16● 46.67●
kg. • 39.80• 4 2.16• 46.67• 38.77• 39.35
kg.• 39.80• 4 2.16• 46.67• 38.77• 39.35 • Break-
kg. • 39.80• 4 2.16• 46.67• 38.77• 39.35
kg.• 39.80• 4 2.16• 46.67• 38.77• 39.35 • Break- even volum
kg.• 39.80• 4 2.16• 46.67• 38.77• 39.35 • Break- even volum (kgs)• 243.33
kg.• 39.80• 4 2.16• 46.67• 38.77• 39.35 • Break- even volum (kgs)• 243.33 • 106.12• 491
kg.• 39.80• 4 2.16• 46.67• 38.77• 39.35 • Break- even volum (kgs)• 243.33

 Actual
Production
kg/season● 7
08.33• 1642.3
0• 9606.66• 4
348.75• • SHI
MLA• • Total
Fixed
cost/year● 92
4.00• 1389.16
• 2914.50• 13
35.80• • Total
Veriable
cost/year● 12
515.70• 2972
6.94• 105962
• 29-
72.20• • Aver
age sale
price 1
kg.● 39.80● 4
2.16• 46.67•
39.35• • Brea
k-even volum
(kgs)● 243.33
• 106.12• 491
1.38• 2150.10
 Actual
Production
kg/season● 7
08.33• 1642.3
0• 9606.66• 4
348.75● • SHI
MLA• • Total
Fixed
cost/year● 92
4.00• 1389.16
• 2914.50• 13
35.80• • Total
Veriable
cost/year● 12
515.70• 2972
6.94• 105962
• 29-
72.20• • Aver
age sale
price 1
kg. ● 39.80● 4
2.16• 46.67•
 Break-even
volum

• 106.12• 491
1.38• 2150.10
 Actual
Production
kg/season● 7
08.33• 1642.3
0• 9606.66• 4
348.75• • SHI
MLA• • Total
Fixed
cost/year● 92
4.00• 1389.16
• 2914.50• 13
35.80• • Total
Veriable
cost/yeare 12
515.70• 2972
6.94• 105962
• 29-
72.20• • Aver
age sale
-
price 1
kg.● 39.80● 4
2.16• 46.67•
Break-even
volum
(kgs)● 243.33
• 106.12• 491
1.38• 2150.10
 Actual
Production
kg/season• 7
08.33• 1642.3
0• 9606.66• 4
348.75• • SHI
MLA• • Total
Fixed
cost/year● 92
cost/year● 92
cost/year● 92 4.00● 1389.16
cost/year • 92 4.00• 1389.16 • 2914.50• 13
cost/year • 92 4.00• 1389.16 • 2914.50• 13
cost/year • 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total
cost/year • 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable
cost/year • 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable
cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12
cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972
cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972
cost/year • 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year • 12 515.70• 2972 6.94• 105962
cost/year • 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year • 12 515.70• 2972 6.94• 105962 • 29-
cost/year • 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year • 12 515.70• 2972 6.94• 105962
cost/year • 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year • 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver
cost/year • 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year • 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale
cost/year • 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year • 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale
cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale price 1
cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale price 1 kg.• 39.80• 4
cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale price 1
cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale price 1 kg.• 39.80• 4

0 1011 00 0
2• 4911.38• 2
150.10• • Act
ual
Production
kg/season● 7
08.33• 1642.3
0• 9606.66• 4
348.75• • SHI
MLA• • Total
Fixed
cost/yeare 92
4.00• 1389.16
• 2914.50• 13
35.80• • Total
Veriable
cost/year● 12
515.70• 2972
6.94• 105962
• 29-
72.20• • Aver
age sale
price 1
kg.● 39.80● 4
kg. • 39.00• 4
2.16• 46.67•
106.12• 4911.
38• 2150.10•
4911.38• 215
0.10• • Actua
I Production
kg/season● 7
08.33• 1642.3
00.33 1042.3
0• 9606.66• 4
0• 9606.66• 4
0● 9606.66● 4 348.75● ● SHI
0• 9606.66• 4 348.75• • SHI MLA• • Total
0• 9606.66• 4 348.75• • SHI MLA• ● Total Fixed
0• 9606.66• 4 348.75• • SHI MLA• • Total
0• 9606.66• 4 348.75• • SHI MLA• • Total Fixed cost/year• 92
0• 9606.66• 4 348.75• • SHI MLA• • Total Fixed cost/year• 92 4.00• 1389.16
0• 9606.66• 4 348.75• • SHI MLA• • Total Fixed cost/year• 92 4.00• 1389.16 • 2914.50• 13
0• 9606.66• 4 348.75• • SHI MLA• • Total Fixed cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total
0• 9606.66• 4 348.75• • SHI MLA• • Total Fixed cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total
0• 9606.66• 4 348.75• • SHI MLA• • Total Fixed cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable
0• 9606.66• 4 348.75• • SHI MLA• • Total Fixed cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12
0• 9606.66• 4 348.75• • SHI MLA• • Total Fixed cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972
0• 9606.66• 4 348.75• • SHI MLA• • Total Fixed cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962
0• 9606.66• 4 348.75• • SHI MLA• • Total Fixed cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962
0• 9606.66• 4 348.75• • SHI MLA• • Total Fixed cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962 • 29-
0• 9606.66• 4 348.75• • SHI MLA• • Total Fixed cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver
0• 9606.66• 4 348.75• • SHI MLA• • Total Fixed cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale
0• 9606.66• 4 348.75• • SHI MLA• • Total Fixed cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver
0• 9606.66• 4 348.75• • SHI MLA• • Total Fixed cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale price 1
0• 9606.66• 4 348.75• • SHI MLA• • Total Fixed cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale price 1 kg.• 39.80• 4
0• 9606.66• 4 348.75• • SHI MLA• • Total Fixed cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale price 1 kg.• 39.80• 4 2.16• 46.67•
0• 9606.66• 4 348.75• • SHI MLA• • Total Fixed cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale price 1 kg.• 39.80• 4
0• 9606.66• 4 348.75• • SHI MLA• • Total Fixed cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale price 1 kg.• 39.80• 4 2.16• 46.67• 2150.10• • Ac
0• 9606.66• 4 348.75• • SHI MLA• • Total Fixed cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale price 1 kg.• 39.80• 4 2.16• 46.67•

• / -
kg/season• 7
08.33• 1642.3
0• 9606.66• 4
348.75• • SHI
MLA• • Total
Fixed
cost/yeare 92
4.00• 1389.16
• 2914.50• 13
• 2914.50• 15
35.80• • Total
Veriable
cost/year● 12
515.70• 2972
6.94• 105962
• 29-
72.20• • Aver
age sale
price 1
kg.● 39.80● 4
2.16• 46.67•
Actual
Production
kg/season• 7
08.33• 1642.3
0• 9606.66• 4
348.75• • SHI
MLA• • Total
Fixed
cost/year• 92
cost/year • 92 4.00• 1389.16
cost/year• 92 4.00• 1389.16 • 2914.50• 13
cost/year • 92 4.00• 1389.16
cost/year • 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total
cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable
cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12
cost/year • 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year • 12 515.70• 2972
cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12
cost/year • 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year • 12 515.70• 2972 6.94• 105962
cost/year • 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year • 12 515.70• 2972 6.94• 105962 • 29-
cost/year • 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year • 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver
cost/year • 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year • 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale
cost/year • 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year • 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver
cost/year • 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year • 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale price 1
cost/year • 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year • 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale price 1 kg.• 39.80• 4
cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale price 1 kg.• 39.80• 4 2.16• 46.67•
cost/year • 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year • 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale price 1 kg.• 39.80• 4 2.16• 46.67• Actual
cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale price 1 kg.• 39.80• 4 2.16• 46.67•
cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale price 1 kg.• 39.80• 4 2.16• 46.67• Actual Production
cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale price 1 kg.• 39.80• 4 2.16• 46.67• Actual Production kg/season• 7
cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale price 1 kg.• 39.80• 4 2.16• 46.67• Actual Production kg/season• 7 08.33• 1642.3
cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale price 1 kg.• 39.80• 4 2.16• 46.67• Actual Production kg/season• 7 08.33• 1642.3 0• 9606.66• 4
cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale price 1 kg.• 39.80• 4 2.16• 46.67• Actual Production kg/season• 7 08.33• 1642.3 0• 9606.66• 4 348.75• • SHI
cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale price 1 kg.• 39.80• 4 2.16• 46.67• Actual Production kg/season• 7 08.33• 1642.3 0• 9606.66• 4
cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale price 1 kg.• 39.80• 4 2.16• 46.67• Actual Production kg/season• 7 08.33• 1642.3 0• 9606.66• 4 348.75• • SHI MLA• • Total
cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale price 1 kg.• 39.80• 4 2.16• 46.67• Actual Production kg/season• 7 08.33• 1642.3 0• 9606.66• 4 348.75• • SHI MLA• • Total Fixed
cost/year• 92 4.00• 1389.16 • 2914.50• 13 35.80• • Total Veriable cost/year• 12 515.70• 2972 6.94• 105962 • 29- 72.20• • Aver age sale price 1 kg.• 39.80• 4 2.16• 46.67• Actual Production kg/season• 7 08.33• 1642.3 0• 9606.66• 4 348.75• • SHI MLA• • Total

• 2914.50• 13
35.80• • Total
Veriable
cost/year● 12
515.70• 2972
6.94• 105962
• 29-
72.20• • Aver
age sale
price 1
kg.● 39.80● 4
2.16• 46.67•
708.33• 1642.
30• 9606.66•
1642.30• 960
6.66• 4348.75
• • SHIMLA•
9606.66• 434
8.75• • SHIM LA ● ● Total
LA• • Total
Fixed
cost/year● 92
4.00• 1389.16
• 2914.50• 13
35.80• • Total
Veriable
cost/year• 12
515.70• 2972
6.94• 105962
• 29-
72.20• • Aver
age sale
price 1
kg.● 39.80● 4
2.16• 46.67•
4348.75• • S
HIMLA● ● Tot
al Fixed
cost/year● 92
4.00• 1389.16
• 2914.50• 13
35.80• • Total
Veriable
cost/year● 12
515.70• 2972
6.94• 105962
• 29-
72.20• • Aver
age sale
price 1
kg. ● 39.80● 4
2.16• 46.67•

• SHIMLA• •
SHIMLA• • To
tal Fixed
cost/year● 92
4.00• 1389.16
• 2914.50• 13
35.80• • Total
Veriable
cost/yeare 12
515.70• 2972
6.94• 105962
• 29-
72.20• • Aver
age sale
price 1
kg.● 39.80● 4
2.16• 46.67•
 Total Fixed
cost/year• 92
4.00• 1389.16
• 2914.50• 13
35.80• • Total
Veriable
cost/year● 12
515.70• 2972
6.94• 105962
• 29-
72.20• • Aver
age sale
price 1
kg.● 39.80● 4
2.16• 46.67•
Total Fixed
cost/year● 92
4.00• 1389.16
• 2914.50• 13
35.80• • Total
Veriable
cost/year● 12
515.70• 2972
6.94• 105962
• 29-
72.20• • Aver
age sale
-
price 1
kg.● 39.80● 4
2.16• 46.67•
924.00• 1389.
16• 2914.50•
1389.16• 291
4.50• 1335.80
• • Total

Veriable
cost/year● 12
515.70• 2972
6.94• 105962
• 29-
72.20• • Aver
age sale
price 1
kg. ● 39.80● 4
2.16• 46.67•
2914.50• 133
5.80• • Total
Veriable
cost/year● 12
515.70• 2972
6.94• 105962
• 29-
72.20• • Aver
age sale
price 1
kg.● 39.80● 4
2.16• 46.67•
1335.80• • To
tal Veriable
cost/yeare 12
515.70• 2972
6.94• 105962
• 29-
72.20• • Aver
age sale
price 1
kg.● 39.80● 4
2.16• 46.67•
Total
Veriable
cost/yeare 12
515.70• 2972
6.94• 105962
• 29-
72.20• • Aver
age sale
price 1
kg.● 39.80● 4
2.16• 46.67•
Total
Veriable
cost/year● 12
515.70• 2972
6.94• 105962
• 29-
72.20• • Aver
age sale

price 1
kg.● 39.80● 4
2.16• 46.67•
12515.70• 29
726.94• 1059
62• 29-
72.20• • Aver
age sale
price 1
kg.● 39.80● 4
2.16• 46.67•
29726.94• 10
5962• 29-
72.20• • Aver
age sale
price 1
kg.● 39.80● 4
2.16• 46.67•
105962• 29-
72.20• • Aver
age sale
price 1
kg. ● 39.80● 4
2.16• 46.67•
29-
72.20• • Aver
age sale
•
price 1
kg.● 39.80● 4
2.16• 46.67•
 Average
sale price 1
kg.● 39.80● 4
2.16• 46.67•
Average sale
price 1
kg.● 39.80● 4
2.16• 46.67•
39.80• 42.16
• 46.67• 42.8
7• • Break-
even volum
(kgs)● 337.68
• 738.04• 233
2.90• 709.31
 Actual
Production
kg/season• 8
60.00• 1605.5
5• 5250.00• 1
600.00• • OV
ERALL• • Tot
ENALL IN

al Fixed
cost/year● 88
4.77• 1271.93
4.// 12/1.93
• 3015.76• 15
73.75• • Total
Veriable
cost/year● 10
543.95• 3054.
16• 177805.9
4• 59804.95•
42.16• 46.67
• 42.87• • Bre
ak-even
volum
(kgs) ● 337.68
• 738.04• 233
2.90• 709.31
 Actual
Production
kg/season• 8
0
60.00• 1605.5
5• 5250.00• 1
600.00• • OV
ERALL • • Tot
al Fixed
cost/year● 88
4.77• 1271.93
• 3015.76• 15
73.75• • Total
Veriable
cost/year● 10
543.95• 3054.
16• 177805.9
4• 59804.95•
46.67• 42.87
• • Break-
even volum
(kgs)● 337.68
• 700 04+ 000
• 738.04• 233
2.90• 709.31
 Actual
Production
kg/season● 8
60.00• 1605.5
5• 5250.00• 1
600.00• • OV
ERALL • Tot
al Fixed
cost/year● 88
4.77• 1271.93
• 3015.76• 15
73.75• • Total
10.10° • 10(d)

Veriable
cost/year● 10
543.95• 3054.
16-177005 0
16• 177805.9
4• 59804.95•
42.87• • Brea
k-even volum
(kgs)● 337.68
• 738.04• 233
2.90• 709.31
 Actual
Production
kg/season• 8
60.00• 1605.5
5• 5250.00• 1
600.00• • OV
ERALL • • Tot
al Fixed
cost/year● 88
4.77• 1271.93
• 3015.76• 15
73.75• • Total
Veriable
cost/year● 10
543.95• 3054.
16• 177805.9
4• 59804.95•
• Break-even
volum
(kgs) ● 337.68
• 738.04• 233
2.90• 709.31
• • Actual
Production
kg/season● 8
60.00• 1605.5
5• 5250.00• 1
600.00• • OV
ERALL• • Tot
al Fixed
cost/year● 88
4.77• 1271.93
• 3015.76• 15
73.75• • Total
Veriable
cost/yeare 10
543.95• 3054.
16• 177805.9
4• 59804.95•
Break-even
volum
volum
(kgs)● 337.68

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600.00• • OV ERALL• • Tot al Fixed cost/year• 88 4.77• 1271.93 • 3015.76• 15 73.75• • Total Veriable cost/year• 10 543.95• 3054. 16• 177805.9 4• 59804.95• 738.04• 2332. 90• 709.31• 2332.90• 709. 31• • Actual Production kg/season• 8 60.00• 1605.5 5• 5250.00• 1 600.00• • OV ERALL• • Tot al Fixed cost/year• 88 4.77• 1271.93 • 3015.76• 15	
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73.75• • Total Veriable cost/year• 10 543.95• 3054. 16• 177805.9 4• 59804.95• 738.04• 2332. 90• 709.31• 2332.90• 709. 31• • Actual Production kg/season• 8 60.00• 1605.5 5• 5250.00• 1 600.00• OV ERALL• • Tot al Fixed cost/year• 88 4.77• 1271.93 • 3015.76• 15	• 3015.76• 15
Veriable cost/year• 10 543.95• 3054. 16• 177805.9 4• 59804.95• 738.04• 2332. 90• 709.31• 2332.90• 709. 31• • Actual Production kg/season• 8 60.00• 1605.5 5• 5250.00• 1 600.00• OV ERALL• • Tot al Fixed cost/year• 88 4.77• 1271.93 • 3015.76• 15	73 75• • Total
cost/year • 10 543.95• 3054. 16• 177805.9 4• 59804.95• 738.04• 2332. 90• 709.31• 2332.90• 709. 31• • Actual Production kg/season• 8 60.00• 1605.5 5• 5250.00• 1 600.00• • OV ERALL• • Tot al Fixed cost/year• 88 4.77• 1271.93 • 3015.76• 15	
543.95• 3054. 16• 177805.9 4• 59804.95• 738.04• 2332. 90• 709.31• 2332.90• 709. 31• • Actual Production kg/season• 8 60.00• 1605.5 5• 5250.00• 1 600.00• OV ERALL• • Tot al Fixed cost/year• 88 4.77• 1271.93 • 3015.76• 15	
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2332.90• 709. 31• • Actual Production kg/season• 8 60.00• 1605.5 5• 5250.00• 1 600.00• • OV ERALL• • Tot al Fixed cost/year• 88 4.77• 1271.93 • 3015.76• 15	90• 709.31• •
31• • Actual Production kg/season• 8 60.00• 1605.5 5• 5250.00• 1 600.00• • OV ERALL• • Tot al Fixed cost/year• 88 4.77• 1271.93 • 3015.76• 15	
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kg/season•8 60.00•1605.5 5•5250.00•1 600.00••OV ERALL••Tot al Fixed cost/year•88 4.77•1271.93 •3015.76•15	Production
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600.00• • OV ERALL• • Tot al Fixed cost/year• 88 4.77• 1271.93 • 3015.76• 15	
600.00• • OV ERALL• • Tot al Fixed cost/year• 88 4.77• 1271.93 • 3015.76• 15	5• 5250.00• 1
ERALL● ● Tot al Fixed cost/year● 88 4.77● 1271.93 ● 3015.76● 15	
al Fixed cost/year • 88 4.77• 1271.93 • 3015.76• 15	
cost/year• 88 4.77• 1271.93 • 3015.76• 15	
4.77• 1271.93 • 3015.76• 15	
4.77• 1271.93 • 3015.76• 15	cost/vear● 88
• 3015.76• 15	4 77 1271 02
73.75• • Total	
	/3.75• ● Total

Veriable
cost/year● 10
543.95• 3054.
16• 177805.9
4• 59804.95•
709.31• • Act
ual
Production
kg/season• 8
60.00• 1605.5
5• 5250.00• 1
600.00• • OV
ERALL • Tot
al Fixed
cost/year● 88
4.77• 1271.93
• 3015.76• 15
73.75• • Total
Veriable
cost/year● 10
543.95• 3054.
16• 177805.9
4• 59804.95•
 Actual
Production
kg/season● 8
60.00• 1605.5
5• 5250.00• 1
600.00• • OV
ERALL• • Tot
al Fixed
cost/year● 88
/ 77• 1271 Q3
4.77• 1271.93 • 3015.76• 15
• 3015.76• 15
73.75• • Total
Veriable
cost/year● 10
543.95• 3054.
16• 177805.9
4• 59804.95•
Actual
Production
kg/season● 8
60.00• 1605.5
5• 5250.00• 1
600.00• • OV
ERALL • Tot
al Fixed
cost/year● 88
4.77• 1271.93
• 3015.76• 15
73.75• • Total

Veriable
cost/year● 10
543.95• 3054.
16• 177805.9
4• 59804.95•
860.00• 1605.
55• 5250.00•
1605.55• 525
0.00• 1600.00
 OVERALL
 Total Fixed
cost/year● 88
4.77• 1271.93
• 3015.76• 15
73.75• • Total
Veriable
cost/year● 10
543.95• 3054.
16• 177805.9
4• 59804.95•
5250.00• 160
0.00• • OVER
ALL● ● Total
Fixed
cost/year● 88
4.77• 1271.93
• 3015.76• 15
• 3015.76• 15
73.75• • Total
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cost/year● 10
543.95• 3054.
16• 177805.9
4• 59804.95•
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VERALL• • T
otal Fixed
cost/year• 88
4.77• 1271.93
• 3015.76• 15
73.75• • Total
Veriable
cost/year● 10
543.95• 3054.
16• 177805.9
4• 59804.95•
• OVERALL•
OVERALL• •
 Total Fixed
cost/year● 88
4.77• 1271.93
• 3015.76• 15
73.75• • Total
Veriable

cost/year • 10 543.95• 3054.
16• 177805.9 4• 59804.95•
Total Fixed
cost/year • 88 4.77• 1271.93
• 3015.76• 15 73.75• • Total
Veriable
cost/year● 10 543.95● 3054.
16• 177805.9 4• 59804.95•
884.77• 1271.
93• 3015.76• 1271.93• 301
5.76• 1573.75 • • Total
Veriable
cost/year • 10 543.95• 3054.
16• 177805.9 4• 59804.95•
3015.76• 157
3.75• • Total Veriable
cost/year● 10 543.95● 3054.
16• 177805.9
4• 59804.95• 1573.75• • To
tal Veriable cost/year• 10
543.95• 3054.
16• 177805.9 4• 59804.95•
 Total Veriable
cost/year● 10
543.95• 3054. 16• 177805.9
4∙ 59804.95• Total
Veriable
cost/year● 10 543.95● 3054.
16• 177805.9 4• 59804.95•
10543.95• 30
54.16• 17780 5.94• 59804.9
5• • Average

sale price 1
kg.● 39.85● 4
0.91• 39.69•
3054.16• 177
805.94• 5980
4.95• • Avera
ge sale price
1
kg.● 39.85● 4
0.91• 39.69•
177805.94• 5
9804.95• • Av
erage sale
price 1
kg.● 39.85● 4
0.91• 39.69•
59804.95• • A
verage sale
price 1
kg.● 39.85● 4
0.91• 39.69•
 Average
sale price 1
kg.● 39.85● 4
0.91• 39.69•
Average sale
price 1
kg.● 39.85● 4
0.91• 39.69•
39.85• 40.91
• 39.69• 40.8
5• • Break-
even volum
(kac)= 140.00
(kgs) ● 142.96 ● 385.03● 211
• 385.03• 211
6.35• 746.51
 Actual
Production
kg/season● 7
77.27• 1620.9
6• 9094.11• 3
170.71• •
40.91• 39.69
• 40.85• • Bre
ak-even
volum
(kgs)● 142.96
(NYS) 142.90
• 385.03• 211
6.35• 746.51
 Actual
Production
kg/season● 7

77.27• 1620.9
6• 9094.11• 3
470 74
170.71• •
39.69• 40.85
 Break-
even volum
(kgs) ● 142.96
(kgs) ● 142.96 ● 385.03● 211
6.35• 746.51
• • Actual
Production
kg/season● 7
77.27• 1620.9
6• 9094.11• 3
170.71••
40.85• • Brea
k-even volum
(kas) 1/2 06
(kgs) 142.90
• 385.03• 211
6.35• 746.51
 Actual
Production
kg/season● 7
77.27• 1620.9
6• 9094.11• 3
170.71• •
-
Break-even
• Break-even volum
• Break-even volum (kgs)• 142.96
• Break-even volum (kgs)• 142.96
• Break-even volum (kgs)• 142.96 • 385.03• 211
• Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51
• Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • • Actual
• Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51
• Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • • Actual Production
• Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • • Actual Production kg/season• 7
• Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • • Actual Production kg/season• 7 77.27• 1620.9
• Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3
• Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3 170.71• •
• Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3
• Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3 170.71• • Break-even
• Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3 170.71• • Break-even volum
• Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3 170.71• • Break-even volum (kgs)• 142.96
• Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3 170.71• • Break-even volum (kgs)• 142.96 • 385.03• 211
• Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3 170.71• • Break-even volum (kgs)• 142.96
• Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3 170.71• • Break-even volum (kgs)• 142.96 • 385.03• 211
• Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3 170.71• • Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • Actual
• Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3 170.71• • Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • • Actual Production
• Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3 170.71• • Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • • Actual Production kg/season• 7
• Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3 170.71• • Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • Actual Production kg/season• 7 77.27• 1620.9
• Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3 170.71• • Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3
• Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3 170.71• • Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3
• Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3 170.71• • Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3 170.71• •
• Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3 170.71• • Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3 170.71• • 142.96• 385.0
• Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3 170.71• • Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3 170.71• • 142.96• 385.0 3• 2116.35• 7
• Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3 170.71• • Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3 170.71• • 142.96• 385.0
• Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3 170.71• • Break-even volum (kgs)• 142.96 • 385.03• 211 6.35• 746.51 • Actual Production kg/season• 7 77.27• 1620.9 6• 9094.11• 3 170.71• • 142.96• 385.0 3• 2116.35• 7

kg/season • 7 77.27• 1620.9 6• 9094.11• 3 170.71• • 385.03• 2116. 35• 746.51• • 2116.35• 746. 51• • Actual
Production
kg/season● 7
77.27• 1620.9 6• 9094.11• 3
170.71● ●
746.51• • Act
ual Braduation
Production kg/season• 7
kg/season● / 77.27● 1620.9
6• 9094.11• 3
170.71• •
Actual
Production kg/season• 7
77.27• 1620.9
6• 9094.11• 3
170.71• •
Actual
Production kg/season• 7
77.27• 1620.9
6• 9094.11• 3
170.71••
777.27• 1620. 96• 9094.11•
1620.96• 909
4.11• 3170.71
••
9094.11● 317 0.71● ●
3170.71• •
•
CHAPTER – VIII

PRODUCTIO N FUNCTION ANALYSIS

The present chapter deals with the financial ratios and the production function analysis. Four types of financial ratios viz. Capital turn over ratio, Gross ratio, Operating ratio and Rate of return on capital have been worked out for studying the financial structure of the mushroom cultivation in the state. On the other hand the production function analysis has

been carried
out by taking
the
productivity of
mushrooms
per tray as
dependent
variable and
the per tray
use of labour
and capital
invested as
independent
variables.
The linear
production
function has
been used in
the present
analysis.
8.1
FINANCIAL
RATIOS
The financial
ratios as
described
above have
been
presented in
Table 8.1
wherein it may
be seen that
the Capital
turn over ratio
at the overall

level was
1.0728 and it
varied
between
0.7053 and
1.1914 for
small and
large farms
respectively.
This indicates
that on an
average each
rupee of fixed
investment,
the gross
revenue was
Rs. 1.0728
only. Similarly
this indicated
that each
rupee of fixed
investment in
district Solan
yielded
Rs.1.3240
and Rs.
0.7379 in
district
Shimla.
Among
different
categories at
the overall
level the
highest capital

turn over ratio
was among
large farmers
and the least
among small
farmers. This
higher
magnitude of
this ratio also
indicated the
efficiency of
the farmers in
utilizing the
fixed capital.
The next ratio
worked out
was gross
ratio which is
the ratio of the
total cost to
the gross
returns. Thus,
to be more
efficient in this
respect the
magnitude of
the ratio
should be
lowest
possible. The
analysis
indicates that
the gross ratio
at the overall

level was
0.6203 and it
varied
between
0.5690 and
0.6451 for
large and
medium
farmers. This
ratio stood at
0.6200 in
district Solan
and 0.6207 in
district
Shimla. This
indicated that
the mushroom
farmers of
Solan are little
more efficient
than the
farmers of
Shimla.
The operating
ratio which is
the ratio of
total operating
and
maintaining
cost to the
gross profits
should have
lowest
possible value

This ratio was	
found to be	
0.4514 and	
0.2687 in	
district Solan	
and Shimla	
respectively.	
Most efficient	
farmers at	
overall level	
on this	
consideration	
were	
observed to	
be the Solan	
farmers. The	
other details	
of various	
categories in	
both the	
districts may	
also be	
referred to	
from this	
table.	
TABLE:	
8.1	
FINANCI	
AL	
RATIOS.	
RATIOS. CATE	
GORY•••SMA	
LL• MEDIUM• L	
ARGE• OVERAL	

L• • SOLAN• • C
APITAL TURN
OVER
RATIO• 0.6367•
CATEGORY••
● ● SMALL● ME DIUM● LARGE●
• SMALL• MEDI
UM• LARGE• O
VERALL••SOL
AN• • CAPITAL TURN OVER
RATIO ● 0.6367●
SMALL• MEDIU
M• LARGE• OV
ERALL• • SOLA
N••CAPITAL TURN OVER
RATIO• 0.6367•
MEDIUM• LARG
E• OVERALL• •
LARGE• OVERA
LL• • SOLAN• •
OVERALL••SO
LAN• • CAPITAL
TURN OVER
RATIO• 0.6367•
• SOLAN• • CAP ITAL TURN
OVER
RATIO• 0.6367•
SOLAN• • CAPI TAL TURN
OVER
RATIO • 0.6367•
• CAPITAL
TURN OVER
RATIO• 0.6367•
CAPITAL TURN
OVER
RATIO• 0.6367•
0.6367• 1.6967•
1.6967• 1.1567•

1.1567• 1.3240•
1.3240• • GROS
S
RATIO• 0.6136•
• GROSS
RATIO • 0.6136• GROSS
RATIO• 0.6136•
0.6136• 0.6462•
0.6462• 0.5844•
0.5844• 0.6200•
0.6200• • OPER
ATING
RATIO• 0.3135•
• OPERATING
RATIO• 0.3135•
OPERATING
RATIO 0.3135
0.3135• 0.4739•
0.4739• 0.5031•
0.5031• 0.4367•
0.4367• • RATE
OF RETURN ON
CAPITAL • 0.246
0• 0.6074• 0.480
7● 0.4514● ● SHI
MLA• • CAPITA L TURN OVER
RATIO• 0.7900•
• RATE OF
RETURN ON
CAPITAL • 0.246
0• 0.6074• 0.480
7• 0.4514• • SHI
MLA• • CAPITA L TURN OVER
RATIO ● 0.7900●
RATE OF
RETURN ON
CAPITAL • 0.246
0• 0.6074• 0.480
7● 0.4514● • SHI
MLA• • CAPITA

L TURN	-
RATIO • 0	.7900•
0.2460• 0	.6074•
0.6074• 0	.4807•
0.4807• 0	.4514•
0.4514• •	
A● ● CAPI TURN	TAL OVER
RATIO● 0	.7900•
• SHIMLA	• • CA
PITAL	TURN
OVER	
RATIO● 0	.7900•
SHIMLA	-
TAL	TURN
OVER	
• CAPITA TURN	L OVER
RATIO● 0	.7900•
CAPITAL	TURN
OVER	
RATIO● 0	.7900•
0.7900• 0	.6067•
0.6067• 1	.4519•
1.4519• 0	.7379•
0.7379••	GROS
S	
RATIO● 0	.6355•
• GROSS RATIO• 0	.6355•
GROSS	
RATIO● 0	.6355•
0.6355• 0	.6444•
0.6444• 0	.5514•
0.5514• 0	.6207•
0.6207• •	OPER
ATING	
RATIO● 0	.3657•
• OPERA	
RATIO● 0	
OPERATI	NG
RATIO • 0	.3657•

0.3657• 0.4392• 0.4392• 0.4325• 0.4325• 0.4125• 0.4125• • RATE OF RETURN ON CAPITAL• 0.287 8• 0.2157• 0.651 3• 0.2687• • OV
0.4325• 0.4125• 0.4125• • RATE OF RETURN ON CAPITAL• 0.287 8• 0.2157• 0.651
0.4125• • RATE OF RETURN ON CAPITAL• 0.287 8• 0.2157• 0.651
OF RETURN ON CAPITAL• 0.287 8• 0.2157• 0.651
CAPITAL• 0.287 8• 0.2157• 0.651
8• 0.2157• 0.651
3● 0.2687● ● OV
ERALL• • CAPIT AL TURN OVER
RATIO• 0.7053•
• RATE OF
RETURN ON
CAPITAL • 0.287
8• 0.2157• 0.651
3• 0.2687• • OV
ERALL•• CAPIT AL TURN OVER
RATIO • 0.7053•
RATE OF
RETURN ON
CAPITAL 0.287
8• 0.2157• 0.651
3• 0.2687• • OV
ERALLO OCAPIT AL TURN OVER
RATIO● 0.7053●
0.2878• 0.2157•
0.2157• 0.6513•
0.6513• 0.2687•
0.2687• • OVER
ALL••CAPITAL TURN OVER
RATIO 0.7053•
• OVERALL• • C Apital turn
OVER
RATIO• 0.7053•
OVERALL ••CA
PITAL TURN
OVER
RATIO● 0.7053●
• CAPITAL TURN OVER

RATIO• 0.7053•
CAPITAL TURN
OVER
RATIO ● 0.7053●
0.7053• 0.8216•
0.8216• 1.1914•
1.1914• 1.0728•
1.0728• • GROS
S
RATIO● 0.6246●
• GROSS
RATIO• 0.6246•
GROSS
RATIO ● 0.6246●
0.6246• 0.6451•
0.6451• 0.5690•
0.5690• 0.6203•
0.6203• • OPER
ATING
RATIO• 0.3372•
• OPERATING
RATIO• 0.3372•
OPERATING
RATIO• 0.3372•
0.3372• 0.4537•
0.4537• 0.4948•
0.4948• 0.4263•
0.4263• • RATE
OF RETURN ON
CAPITAL 0.264
7• 0.3799• 0.500
7• 0.3730• •
• RATE OF
RETURN ON
CAPITAL 0.264
7● 0.3799● 0.500
7● 0.3730● ●
RATE OF
RETURN ON
CAPITAL • 0.264
7• 0.3799• 0.500
7• 0.3730• •
0.2647• 0.3799•

0.3799• 0.5007• 0.5007• 0.3730• 0.3730• • • 8.2 PRODUCTIO N FUNCTION ANALYSIS The analysis of costs and returns which has been presented in the previous chapter does provide clear picture on the efficiency with the which of resources production are being utilized for the mushroom production. In other words, the efficiency of resource allocation is not appropriately highlighted, although, it provides а

good
indication of
the overall
productivity on
mushroom
farms. The
specific
contribution of
input factors is
necessary for
the
determination
of efficiency of
factor
proportions. It
is with this
background
that an
attempt has
been made to
derive more
precise
measure of
efficiency in
the resource
allocation in
mushroom
cultivation.
For this
purpose
production
function
analysis has
been
attempted.

The linear		
production		
function has		
been used as		
it was found to		
be giving the		
satisfactory		
results.		
For fitting the		
production		
function the		
production of		
mushrooms		
per tray has		
been taken to		
be the		
dependent		
variable. The		
independent		
variables		
included in the		
study are the		
working		
capital		
invested per		
tray and the		
labour used		
per try. The		
unit of the		
former was		
taken to be		
the rupees per		
tray per		
season and		

for the labour
it has been
actual hours
utilized per
tray. It may
be mentioned
here that for
the labour the
units of
rupees was
also tried but
the this led to
unsatisfactory
results.
The results of
the analysis
have been
presented
separately for
each of the
size class in
each of the
districts and
also for each
class category
pooled for
both the
districts. The
results have
been
presented in
tables 8.2 to
8.12 and
discussed

below for		
each district		
and for the		
pooled		
sample.		
8.2.1 SOLAN		
The results of		
regression		
analysis have		
been		
presented in		
tables 8.2 to		
8.4 for each		
size class and		
in 8.5 for the		
pooled		
sample of this		
district.		
SMALL		
CULTIVATOR		
S: The		
coefficient of		
Multiple		
Determination		
(R ²) indicates		
that the		
endogenous		
variables viz.		
working		
capital and		
' labour explain		
about 93 per		
cent of the		

total variation		
in the		
mushroom		
yield (Table		
8.2). The		
values of the		
regression		
coefficients		
indicate that		
the yield		
would		
increase by		
0.4439 and		
0.1348 per		
cent by		
increasing the		
working		
capital and		
labour by one		
per cent		
respectively		
and keeping		
the other		
constant at its		
geometric		
mean level.		
The		
coefficients		
were found to		
be significant		
at one per		
cent level of		
probability.		
The returns to		
the scale was		

found to	be
0.5787	
indicating	that
it was	
diminishing.	
This	also
indicated	that
the mushre	oom
would	
increase	by
0.5787	per
cent if all	the
variables	
under	
considerat	ion
are	
simultaneo	ousl
y increase	d by
one per c	ent.
The estimation	ated
production	
function	
revealed	that
the resou	rces
were	not
being	
optimally	
utilized.	In
fact, both	the
resources	
were b	eing
over utili	zed.
The s	mall
farmers	of
Solan sh	ould

use the		
working		
capital of Rs.		
23.25 per bag		
instead of Rs.		
44.25 and		
labour use		
should be		
decreased		
from 4.28		
hours to 3.37		
hours per bag.		
COEFFICIEN TS, T- VALUES, MVP FACTOR		
MVP		
MVP FACTOR COST RATIO		
MVP FACTOR		
MVP FACTOR COST RATIO FOR SMALL		
MVP FACTOR COST RATIO FOR SMALL MUSHROOM		
MVP FACTOR COST RATIO FOR SMALL MUSHROOM CULTIVATOR		
MVP FACTOR COST RATIO FOR SMALL MUSHROOM CULTIVATOR S OF		
MVP FACTOR COST RATIO FOR SMALL MUSHROOM CULTIVATOR S OF DISTRICT		
MVP FACTOR COST RATIO FOR SMALL MUSHROOM CULTIVATOR S OF DISTRICT SOLAN.		
MVP FACTOR COST RATIO FOR SMALL MUSHROOM CULTIVATOR S OF DISTRICT SOLAN. FACTOR• CO		
MVP FACTOR COST RATIO FOR SMALL MUSHROOM CULTIVATOR S OF DISTRICT SOLAN. FACTOR• CO EFFICIENT•		
MVP FACTOR COST RATIO FOR SMALL MUSHROOM CULTIVATOR S OF DISTRICT SOLAN. FACTOR• CO EFFICIENT• COEFFICIEN		
MVP FACTOR COST RATIO FOR SMALL MUSHROOM CULTIVATOR S OF DISTRICT SOLAN. FACTOR• CO EFFICIENT• COEFFICIEN T• MVP• MVP		
MVP FACTOR COST RATIO FOR SMALL MUSHROOM CULTIVATOR S OF DISTRICT SOLAN. FACTOR• CO EFFICIENT• COEFFICIEN T• MVP• MVP -FACTOR		
MVP FACTOR COST RATIO FOR SMALL MUSHROOM CULTIVATOR S OF DISTRICT SOLAN. FACTOR• CO EFFICIENT• COEFFICIEN T• MVP• MVP -FACTOR COST		

MUM
LEVEL• • TO
WORKING CAPITAL
(XI) ● 0.4439*
MVP• MVP-
FACTOR
COST
RATIO• EXIS
TING
LEVEL• OPTI
MUM
LEVEL• • TO
TAL
WORKING CAPITAL
(XI) ● 0.4439*
MVP-
FACTOR
COST
RATIO• EXIS
TING
LEVEL• OPTI
МОМ
LEVEL• • TO
TAL
WORKING CAPITAL
(XI)● 0.4439*
ÉXISTING
LEVEL• OPTI
МОМ
LEVEL• • TO
TAL
WORKING CAPITAL
(XI)● 0.4439*
ÓPTIMUM
LEVEL• • TO

TAL
WORKING
CAPITAL
(XI)● 0.4439*
 TOTAL
WORKING
CAPITAL
(XI)● 0.4439*
TOTAL
WORKING
CAPITAL
(XI)● 0.4439*
0.4439*
(4.7628)• 1.50
44● 0.5278● 4
4.25• 23.25•
1.5044• 0.527
8● 44.25 ● 23.
25• • HUMAN
LABOUR
(X2)• 0.1348*
0.5278• 44.25
● 23.25● ● HU
MAN
LABOUR
(X2)● 0.1348*
44.25• 23.25
• • HUMAN
LABOUR
(X2)● 0.1348*
(AZ) 0.1340
23.25• • HUM
AN LABOUR
(X2)● 0.1348*
• HUMAN
LABOUR
(X2)● 0.1348*
HUMAN
LABOUR
(X2)● 0.1348*
0.1348*
(9.9851)• 4.72
88• 3.3692• 4
.28• 3.37• •
4.7288• 3.369
2• 4.28• 3.37
• •
3.3692• 4.28
● 3.37● ●
4.28• 3.37• ●
3.37• ●
•

R ² = 0.9298 RETURNS TO SCALE = 0.5787
NOTE: Figures in parenthesis are t – values.
* Signific ant at 1% level of probab ility ** Signific ant at 5% level of probab ility.
MEDIUM
MEDIUM CULTIVATOR
-
CULTIVATOR
CULTIVATOR S: The
CULTIVATOR S: The results of the
CULTIVATOR S: The results of the regression
CULTIVATOR S: The results of the regression analysis for
CULTIVATOR S: The results of the regression analysis for the medium
CULTIVATOR S: The results of the regression analysis for the medium category have
CULTIVATOR S: The results of the regression analysis for the medium category have been
CULTIVATOR S: The results of the regression analysis for the medium category have been presented in
CULTIVATOR S: The results of the regression analysis for the medium category have been presented in table 8.3
CULTIVATOR S: The results of the regression analysis for the medium category have been presented in table 8.3 wherein it may
CULTIVATOR S: The results of the regression analysis for the medium category have been presented in table 8.3 wherein it may be seen that
CULTIVATOR S: The results of the regression analysis for the medium category have been presented in table 8.3 wherein it may be seen that the

78.37 per cent
of the total
variation in
the mushroom
yield of this
category,
being the
value of R^2 .
The
summation of
the regression
coefficients
indicate the
diminishing
returns to
scale. The
values of the
coefficients
stood at
0.4058and
0.1348 for
working
capital and
labour
respectively.
Both the
coefficients
were found to
be significant,
working
capital at one
per cent level
of probability
and labour at
5 per cent.

The analysis		
also indicated		
the about 3.5		
times the use		
of working		
capital than		
the optimum		
level.		
Similarly, the		
optimum		
labour use		
was found to		
be 3.18 hours		
per bag as		
against the		
4.08 hours of		
the present		
use.		
TABLE: 8.3		
REGRESSIO N		
COEFFICIEN		
TS, T-VALUE,		
MVP FACTOR		
COST		
RATIO FOR		
MEDIUM		
MEDIUM MUSHROOM		
MEDIUM MUSHROOM CULTIVATOR S OF		
MEDIUM MUSHROOM CULTIVATOR S OF DISTRICT		
MEDIUM MUSHROOM CULTIVATOR S OF DISTRICT SOLAN.		
MEDIUM MUSHROOM CULTIVATOR S OF DISTRICT SOLAN. FACTOR• CO		
MEDIUM MUSHROOM CULTIVATOR S OF DISTRICT SOLAN.		

T• MVP• MVP
-FACTOR
COST
RATIO• EXIS
TING
LEVEL• OPTI
МОМ
LEVEL••TO
TAL WORKING CAPITAL (XI)• 0.4058** MVP• MVP-
FACTOR
COST
RATIO• EXIS
TING
LEVEL• OPTI
МОМ
LEVEL••TO
TAL WORKING CAPITAL (XI)• 0.4058** MVP-
FACTOR
COST
RATIO• EXIS
TING
LEVEL• OPTI
МОМ
LEVEL••TO
TAL WORKING CAPITAL (XI)• 0.4058** EXISTING
LEVEL• OPTI

MUM
LEVEL• • TO
TAL WORKING
CAPITAL
(XI)● 0.4058**
OPTIMUM
LEVEL• • TO
TAL
WORKING CAPITAL
(XI)● 0.4058**
• TOTAL
WORKING
CAPITAL (XI)● 0.4058**
TOTAL
WORKING
CAPITAL (XI)• 0.4058**
0.4058**
(2.7928)• 12.7
753• 0.3041• 12.7753• 0.30
41• 42.00• 12
.78• • HUMA
N LABOUR
(X2)● 0.1348 0.3041● 42.00
• 12.78• ● HU
MAN
(X2) ● 0.1348 42.00● 12.78
• • HUMAN
LABOUR
(X2)● 0.1348 12.78● ● HUM
AN LABOUR
(X2)● 0.1348
HUMAN
LABOUR (X2)● 0.1348
HUMAN
LABOUR
(X2)● 0.1348
0.1348 (5.0676)*● 4.0
963• 0.6827•
4.0963• 0.682

7• 4.086• 3.1 8• 0 0.6827• 4.086 • 3.18• 0 4.086• 3.18• 3.18• 0 • R ² = 0.7837 RETURNS TO SCALE = 0.5406 NOTE: Figures in parenthesis are t - values. * Signific ant at 1% level of probab ility ** Signific ant at 5%
level of probab
ility.
LARGE
CULTIVATOR
S: In case of
large
cultivators the
exogenous
variables were
able to explain
89.12 per cent
variation in

the total
mushroom
yield (Table
8.4). The
values of the
regression
coefficients
were
observed to
be 0.4398 and
0.1220
respectively
for working
capital and
labour. Both
of these were
significant at
one per cent
level of
probability.
The
summation of
these further
indicated the
diminishing
returns to
scale in their
case. This
category of
cultivators
was also
found to be
over using the
factors of
production.

The working
The working
capital was
found to be
Rs. 44.60 per
bag as
against the
optimum of
Rs. 13.51
only. In case
of labour the
optimum level
was 3.05
hours per bag
whereas its
present use
was 4.34
hours.
TABLE: 8.4 REGRESSIO N
REGRESSIO N COEFFICIEN
REGRESSIO N
REGRESSIO N COEFFICIEN TS, T- VALUES, MVP
REGRESSIO N COEFFICIEN TS, T- VALUES,
REGRESSIO N COEFFICIEN TS, T- VALUES, MVP FACTOR COST
REGRESSIO N COEFFICIEN TS, T- VALUES, MVP FACTOR
REGRESSIO N COEFFICIEN TS, T- VALUES, MVP FACTOR COST RATIO FOR LARGE MUSHROOM
REGRESSIO N COEFFICIEN TS, T- VALUES, MVP FACTOR COST RATIO FOR LARGE MUSHROOM CULTIVATOR
REGRESSIO N COEFFICIEN TS, T- VALUES, MVP FACTOR COST RATIO FOR LARGE MUSHROOM CULTIVATOR S OF DISTRICT
REGRESSIO N COEFFICIEN TS, T- VALUES, MVP FACTOR COST RATIO FOR LARGE MUSHROOM CULTIVATOR S OF
REGRESSIO N COEFFICIEN TS, T- VALUES, MVP FACTOR COST RATIO FOR LARGE MUSHROOM CULTIVATOR S OF DISTRICT
REGRESSIO N COEFFICIEN TS, T- VALUES, MVP FACTOR COST RATIO FOR LARGE MUSHROOM CULTIVATOR S OF DISTRICT SOLAN.
REGRESSIO N COEFFICIEN TS, T- VALUES, MVP FACTOR COST RATIO FOR LARGE MUSHROOM CULTIVATOR S OF DISTRICT SOLAN. FACTOR• CO

T• MVP• MVP
-FACTOR
COST
RATIO• EXIS
TING
LEVEL• OPTI
МОМ
LEVEL• • TO
TAL WORKING CAPITAL (XI)• 0.4398* MVP• MVP-
FACTOR
COST
RATIO• EXIS
TING
LEVEL• OPTI
МОМ
LEVEL• • TO
TAL WORKING CAPITAL (XI)• 0.4398* MVP-
FACTOR
COST
RATIO• EXIS
TING
LEVEL• OPTI
МИМ
LEVEL••TO
TAL WORKING CAPITAL (XI)• 0.4398* EXISTING
LEVEL• OPTI

MUM
LEVEL• • TO
TAL WORKING CAPITAL (XI)• 0.4398* OPTIMUM
LEVEL• • TO
TAL
WORKING
CAPITAL
(XI)● 0.4398* ● TOTAL
WORKING
CAPITAL
(XI) ● 0.4398*
TOTAL
WORKING
(XI)● 0.4398* 0.4398*
(6.2649)• 13.5
058• 2.7619•
13.5058• 2.76
19• 44.60• 13
.51• • HUMA N LABOUR
(X2)● 0.1220*
2.7619• 44.60
• 13.51• ● HU
MAN
LABOUR (X2)● 0.1220*
44.60• 13.51
• • HUMAN
LABOUR
(X2)● 0.1220*
13.51• • HUM
AN LABOUR
(X2)● 0.1220* ● HUMAN
LABOUR
(X2)● 0.1220*
HUMAN
(X2)● 0.1220* 0.1220*
(8.9051)● 4.22
13• 0.7035• 4
.34• 3.05• •

4.2213• 0.703 5• 4.34• 3.05
0.7035• 4.34
• 3.05• ● 4.34• 3.05• ●
3.05• ●
$R^2 = 0.8912$ RETURNS
TO SCALE = 0.5618
NOTE:
Figures in parenthesis
are t – values.
* Signific
ant at 1%
level of
probab ility **
Signific
ant at 5%
level of
probab ility.
ALL
CULTIVATOR
S: The
results of
analysis for all
cultivators of
district Solan
pooled
together have
been

presented in
table 8.5
which depicts
that the value
of R^2 was
0.8573
indicating that
85.73 per cent
of the
variations in
the mushroom
yield was due
to the factors
under
consideration
in the present
model. The
values of the
regression
coefficients
were 0.4324
and 0.1298
for working
capital and
labour
respectively.
Both the
coefficients
were
significant at
one per cent
level of
probability.
The returns
to scale was

0.5622 indicating the diminishing returns to scale as was the case in the individual class categories. This means that if all the inputs i.e. capital and labour are simultaneousl y y increased by one one per cent the output would increase increase by 0.5622 per cent. For the production to be efficient the ratio factor cost should be as close to factor cost should be as close to the present case the the ratio diactor cost should <th></th>	
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unity (0.3086
for working
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0.7522 for
labour)
indicating that
the inputs
were not
being
efficiently
used and in
order to
increase the
value of this
ratio the
farmers must
decrease the
use of these
inputs. This
case was also
observed in
the individual
class
categories of
the district
Solan with
similar results
and
recommendati
ons. The
further
analysis
indicates that
both the
inputs were

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used i	n district
Solan.	The
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capital	should
be o	curtailed
from	present
level	of
Rs.44.	70 per
bag	to Rs.
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should	be
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TABLE: 8.5 REGRESSIO N COEFFICIEN TS, T- VALUES, MVP FACTOR COST RATIO FOR ALL MUSHROOM CULTIVATOR S OF DISTRICT SOLAN.	
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98• 0.3086• 4 4.70• 13.79• 1.4598• 0.308 6• 44.70• 13. 79• • HUMAN LABOUR (X2)• 0.1298* 0.3086• 44.70 • 13.79• • HU MAN LABOUR (X2)• 0.1298* 44.70• 13.79 • • HUMAN LABOUR (X2)• 0.1298* 13.79• • HUM AN LABOUR (X2)• 0.1298* • HUMAN LABOUR (X2)• 0.1298* • HUMAN LABOUR (X2)• 0.1298* • HUMAN LABOUR (X2)• 0.1298* • HUMAN LABOUR (X2)• 0.1298* • 13.2448)• 4.5 134• 0.7522• 4.5134• 0.752	
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4.70• 13.79• 1.4598• 0.308 6• 44.70• 13. 79• • HUMAN LABOUR (X2)• 0.1298* 0.3086• 44.70 • 13.79• • HU MAN LABOUR (X2)• 0.1298* 44.70• 13.79 • • HUMAN LABOUR (X2)• 0.1298* 13.79• • HUM AN LABOUR (X2)• 0.1298* • HUMAN LABOUR (X2)• 0.1298* • HUMAN IABOUR (X2)• 0.1298* • HUMAN • HUMAN	98• 0.3086• 4
6• 44.70• 13. 79• • HUMAN LABOUR (X2)• 0.1298* 0.3086• 44.70 • 13.79• • HU MAN LABOUR (X2)• 0.1298* 44.70• 13.79 • • HUMAN LABOUR (X2)• 0.1298* 13.79• • HUM AN LABOUR (X2)• 0.1298* • HUMAN LABOUR (X2)• 0.1298* • HUMAN LABOUR (X2)• 0.1298* • HUMAN LABOUR (X2)• 0.1298* • HUMAN LABOUR (X2)• 0.1298* • HUMAN LABOUR (X2)• 0.1298* • HUMAN LABOUR (X2)• 0.1298* • 13.2448)• 4.5 134• 0.7522• 4.5134• 0.752	
79••HUMAN LABOUR (X2)• 0.1298^* 0.3086•44.70 • $13.79•$ •HU MAN LABOUR (X2)• 0.1298^* 44.70•13.79 •HUMAN LABOUR (X2)• 0.1298^* 13.79••HUM AN LABOUR (X2)• 0.1298^* •HUMAN LABOUR (X2)• 0.1298^* •HUMAN LABOUR (X2)• 0.1298^* 0.1298^* (X2)• 0.1298^* 0.1298^* (X3)• 0.1298^* 0.1298^* (X3)• 0.1298^* 0.1298^* 0.1298^* 0.1298^* 0.1298^*	
79••HUMAN LABOUR (X2)• 0.1298^* 0.3086•44.70 • $13.79•$ •HU MAN LABOUR (X2)• 0.1298^* 44.70•13.79 •HUMAN LABOUR (X2)• 0.1298^* 13.79••HUM AN LABOUR (X2)• 0.1298^* •HUMAN LABOUR (X2)• 0.1298^* •HUMAN LABOUR (X2)• 0.1298^* 0.1298^* (X2)• 0.1298^* 0.1298^* (X3)• 0.1298^* 0.1298^* (X3)• 0.1298^* 0.1298^* 0.1298^* 0.1298^* 0.1298^*	
LABOUR (X2)• 0.1298* 0.3086• 44.70 • 13.79• • HU MAN LABOUR (X2)• 0.1298* 44.70• 13.79 • • HUMAN LABOUR (X2)• 0.1298* 13.79• • HUM AN LABOUR (X2)• 0.1298* • HUMAN LABOUR (X2)• 0.1298* • HUMAN LABOUR (X2)• 0.1298* (X2)• 0.1298*	
(X2) ● 0.1298* 0.3086● 44.70 ● 13.79● ● HU MAN LABOUR (X2)● 0.1298* 44.70● 13.79 ● HUMAN LABOUR (X2)● 0.1298* 13.79● ● HUM AN LABOUR (X2)● 0.1298* ● HUMAN LABOUR (X2)● 0.1298* ● HUMAN LABOUR (X2)● 0.1298* ● HUMAN LABOUR (X2)● 0.1298* 0.1298* (X2)● 0.1298* 0.1298* (X3)● 0.1298* 0.1298* (X3)● 0.1298* 0.1298* (X3)● 0.1298* 0.1298* (X3)● 0.1298* 0.1298* (X3)● 0.1298* 0.1298* (X3)● 0.1298* (X3)● 0.1298* 0.1298* (X3)● 0.1298* (X3)● 0	
0.3086• 44.70 • 13.79• • HU MAN LABOUR (X2)• 0.1298* 44.70• 13.79 • • HUMAN LABOUR (X2)• 0.1298* 13.79• • HUM AN LABOUR (X2)• 0.1298* • HUMAN LABOUR (X2)• 0.1298* • HUMAN LABOUR (X2)• 0.1298* (X2)•	
• 13.79• • HU MAN LABOUR (X2)• 0.1298* 44.70• 13.79 • • HUMAN LABOUR (X2)• 0.1298* 13.79• • HUM AN LABOUR (X2)• 0.1298* • HUMAN LABOUR (X2)• 0.1298* HUMAN LABOUR (X2)• 0.1298* (X2)• 0.1298* (X2)• 0.1298* (X3)• 0.	
MAN LABOUR (X2)• 0.1298* 44.70• 13.79 • HUMAN LABOUR (X2)• 0.1298* 13.79• • HUM AN LABOUR (X2)• 0.1298* • HUMAN LABOUR (X2)• 0.1298* HUMAN LABOUR (X2)• 0.1298* (X2)• 0.1298* (X2)• 0.1298* HUMAN LABOUR (X2)• 0.1298* (X2)• 0.1298* HUMAN LABOUR (X2)• 0.1298* (X3)• 0.7522• 4.5134• 0.752	
LABOUR (X2)• 0.1298* 44.70• 13.79 • HUMAN LABOUR (X2)• 0.1298* 13.79• HUM AN LABOUR (X2)• 0.1298* • HUMAN LABOUR (X2)• 0.1298* HUMAN LABOUR (X2)• 0.1298* HUMAN LABOUR (X2)• 0.1298* (13.2448)• 4.5 134• 0.7522• 4.5134• 0.752	
(X2)● 0.1298* 44.70● 13.79 ● HUMAN LABOUR (X2)● 0.1298* 13.79● ● HUM AN LABOUR (X2)● 0.1298* ● HUMAN LABOUR (X2)● 0.1298* HUMAN LABOUR (X2)● 0.1298* 0.1298* (13.2448)● 4.5 134● 0.7522● 4.5134● 0.752	
44.70• 13.79 • HUMAN LABOUR (X2)• 0.1298* 13.79• • HUM AN LABOUR (X2)• 0.1298* • HUMAN LABOUR (X2)• 0.1298* HUMAN LABOUR (X2)• 0.1298* 0.1298* (13.2448)• 4.5 134• 0.7522• 4.5134• 0.752	
• • HUMAN LABOUR (X2)• 0.1298* 13.79• • HUM AN LABOUR (X2)• 0.1298* • HUMAN LABOUR (X2)• 0.1298* HUMAN LABOUR (X2)• 0.1298* (X2)• 0.1298* (13.2448)• 4.5 134• 0.7522• 4.5134• 0.752	
LABOUR (X2)• 0.1298* 13.79• • HUM AN LABOUR (X2)• 0.1298* • HUMAN LABOUR (X2)• 0.1298* (X2)• 0.1298* HUMAN LABOUR (X2)• 0.1298* 0.1298* (13.2448)• 4.5 134• 0.7522• 4.5134• 0.752	
(X2) ● 0.1298* 13.79 ● HUM AN LABOUR (X2) ● 0.1298* ● HUMAN LABOUR (X2) ● 0.1298* HUMAN LABOUR (X2) ● 0.1298* 0.1298* (13.2448) ● 4.5 134● 0.7522● 4.5134● 0.752	
13.79• • HUM AN LABOUR (X2)• 0.1298* • HUMAN LABOUR (X2)• 0.1298* HUMAN LABOUR (X2)• 0.1298* 0.1298* (13.2448)• 4.5 134• 0.7522• 4.5134• 0.752	
AN LABOUR (X2)• 0.1298* • HUMAN LABOUR (X2)• 0.1298* HUMAN LABOUR (X2)• 0.1298* 0.1298* (13.2448)• 4.5 134• 0.7522• 4.5134• 0.752	
(X2)• 0.1298* • HUMAN LABOUR (X2)• 0.1298* HUMAN LABOUR (X2)• 0.1298* 0.1298* (13.2448)• 4.5 134• 0.7522• 4.5134• 0.752	
• HUMAN LABOUR (X2)• 0.1298* HUMAN LABOUR (X2)• 0.1298* 0.1298* (13.2448)• 4.5 134• 0.7522• 4.5134• 0.752	
LABOUR (X2)• 0.1298* HUMAN LABOUR (X2)• 0.1298* 0.1298* (13.2448)• 4.5 134• 0.7522• 4.5134• 0.752	
(X2)• 0.1298* HUMAN LABOUR (X2)• 0.1298* 0.1298* (13.2448)• 4.5 134• 0.7522• 4.5134• 0.752	
HUMAN LABOUR (X2)• 0.1298* 0.1298* (13.2448)• 4.5 134• 0.7522• 4.5134• 0.752	
LABOUR (X2)• 0.1298* 0.1298* (13.2448)• 4.5 134• 0.7522• 4.5134• 0.752	• •
(X2)● 0.1298* 0.1298* (13.2448)● 4.5 134● 0.7522● 4.5134● 0.752	-
0.1298* (13.2448)• 4.5 134• 0.7522• 4.5134• 0.752	
(13.2448)• 4.5 134• 0.7522• 4.5134• 0.752	
134• 0.7522• 4.5134• 0.752	
4.5134• 0.752	
2• 4.34• 3.26	
	2• 4.34• 3.26

•• 0.7522• 4.34 • 3.26• • 4.34• 3.26• • 3.26• •
• R ² = 0.8573 RETURNS TO SCALE = 0.5622
NOTE: Figures in parenthesis are t – values.
* Signific ant at 1% level of probab ility ** Signific ant at 5% level of probab ility.
8.2.2 SHIMLA The results of the regression analysis have been presented in tables 8.6 and 8.7 for
individual size categories and in table

8.8 for the all	
sample of this	
district.	
SMALL	
CULTIVATOR	
<i>S:</i> The	
regression	
analysis for	
this category	
of farmers of	
district Shimla	
indicates that	
the variables	
under	
consideration	
were able to	
explain 85.20	
per cent	
variation in	
the yield of	
mushrooms.	
The	
regression	
coefficients	
turned out to	
be 0.5178 and	
0.1360 in	
case of	
working	
capital and	
labour	
respectively,	
the former	
being	

significant at
five percent
and the latter
at one per
cent level of
probability.
The
cultivators of
this category
were also
experiencing
the
diminishing
returns to
scale as
indicated by
the value of
the returns to
scale which
turned out to
be 0.6538.
Both the
factors of
production
were being
inefficiently
used, their
value being
considerably
lower than
unity
especially in
case of the
working
capital. The

optimum level
of the working
capital was
calculated to
be only Rs.
20.15
whereas it
was being
used at a level
of Rs. 43.40
per bag.
Similarly the
farmers
should put in
only 3.19
hours of
labour per bag
whereas they
are putting in
4.23 hours
presently.
TABLE: 8.6
REGRESSIO
COEFFICIEN TS, T-
VALUES,
MVP FACTOR
COST
RATIO FOR
SMALL
MUSHROOM CULTIVATOR
S OF
DISTRICT SHIMLA.
JI IIIVILA.

FACTOR• CO
EFFICIENT •
COEFFICIEN
T• MVP• MVP
-FACTOR
COST
RATIO• EXIS
TING
LEVEL• OPTI
МОМ
LEVEL• • TO
TAL
CAPITAL
(XI)● 0.5178**
MVP• MVP-
FACTOR
COST
RATIO• EXIS
TING
LEVEL• OPTI
MUM
LEVEL• • TO
TAL
WORKING
CAPITAL (XI)● 0.5178**
MVP-
FACTOR
COST
RATIO• EXIS
TING
LEVEL• OPTI
МИМ
LEVEL• • TO
TAL
WORKING
CAPITAL

(XI)● 0.5178**
ÉXISTING
LEVEL• OPTI
МИМ
LEVEL• • TO
TAL
WORKING
CAPITAL
(XI) ● 0.5178**
OPTIMUM
LEVEL• • TO
TAL
WORKING
CAPITAL
(XI)● 0.5178**
• TOTAL
WORKING
CAPITAL
(XI)● 0.5178**
TOTAL
WORKING
CAPITAL
(XI) ● 0.5178**
0.5178**
(3.9085)• 1.68
09• 0.4643• 4
3.4• 20.15• •
1.6809• 0.464
3• 43.4• 20.1
5• • HUMAN
LABOUR
(X2)• 0.1360*
0.4643• 43.4
• 20.15• • HU
MAN
LABOUR
(X2)● 0.1360*
43.4• 20.15•
20.15• • HUM
AN LABOUR
(X2)● 0.1360*
• HUMAN
LABOUR
(X2)● 0.1360*
HUMAN
LABOUR
(X2)● 0.1360*
0.1360*
(5.6211)• 4.52
(

98• 0.7549• 4 .23• 3.19• • 4.5298• 0.754 9• 4.23• 3.19 • 0.7549• 4.23 • 3.19• • 4.23• 3.19• • 3.19• •
R ² = 0.8520 RETURNS TO SCALE = 0.6538
NOTE: Figures in parenthesis are t – values.
* Signific ant at 1% level of probab ility ** Signific ant at 5% level of probab ility.
MEDIUM
CULTIVATOR
<i>S:</i> The value of R ² (Table
of R^2 (Table 8.7), the
coefficient of
multiple
determination
for medium

farmers	of	
Shimla	has	
been w	orked	
out to	be	
0.7841		
indicating	g that	
the r	nodel	
could e	xplain	
the 78.4	1 per	
cent of	the	
variation	in	
mushroo	m	
yield of	this	
category	. The	
regressic	n	
coefficier	nts	
turned c	out to	
be 0.379	2 and	
0.1131	for	
working		
capital	and	
labour		
respectiv	ely	
indicating	g as	
many pe	r cent	
increase	in	
the yie	ld if	
other fa	actors	
are	held	
constant	at	
their		
respectiv	e	
geometric		
mean	level.	
Diminishing		

returns to
scale were
observed in
this case also,
the returns to
scale being
0.4923. The
MVP factor
cost ratio
indicates that
both the
factors of
production
under
consideration
here are being
used
inefficiently.
The analysis
indicates that
the optimum
level of the
working
capital is Rs.
15.95
whereas the
present use
has been Rs.
46.17 per
bag. In same
fashion the
labour use
should have
been 3.46
hours per bag

instead of
5.05 hours per
bag at the
present level.
TABLE: 8.7
REGRESSIO N
COEFFICIEN
TS, T-
VALUES, MVP
FACTOR
COST
RATIO FOR
MEDIUM
MUSHROOM CULTIVATOR
S OF
SHIMLA. FACTOR• CO
EFFICIENT•
COEFFICIEN
T• MVP• MVP
-FACTOR
COST
RATIO• EXIS
TING
LEVEL• OPTI
MUM
LEVEL••TO
TAL
I AL WORKING
CAPITAL
(XI)● 0.3792* MVP● MVP-
FACTOR
COST
RATIO• EXIS
TING

LEVEL• OPTI
MUM
LEVEL• • TO
TAL
WORKING
(XI)● 0.3792* MVP-
FACTOR
COST
RATIO• EXIS
TING
LEVEL• OPTI
MUM
LEVEL• • TO
TAL
WORKING
CAPITAL
(XI)• 0.3792* EXISTING
LEVEL• OPTI
LEVEL• OPTI
LEVEL• OPTI MUM LEVEL• • TO TAL
LEVEL• OPTI MUM LEVEL• • TO TAL WORKING
LEVEL• OPTI MUM LEVEL••TO TAL WORKING CAPITAL
LEVEL• OPTI MUM LEVEL• • TO TAL WORKING
LEVEL• OPTI MUM LEVEL••TO TAL WORKING CAPITAL (XI)• 0.3792*
LEVEL• OPTI MUM LEVEL••TO TAL WORKING CAPITAL (XI)• 0.3792* OPTIMUM LEVEL••TO
LEVEL• OPTI MUM LEVEL••TO TAL WORKING CAPITAL (XI)•0.3792* OPTIMUM LEVEL••TO TAL
LEVEL• OPTI MUM LEVEL••TO TAL WORKING CAPITAL (XI)• 0.3792* OPTIMUM LEVEL••TO
LEVEL• OPTI MUM LEVEL••TO TAL WORKING CAPITAL (XI)•0.3792* OPTIMUM LEVEL••TO TAL WORKING CAPITAL (XI)•0.3792*
LEVEL• OPTI MUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.3792* OPTIMUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.3792* • TOTAL
LEVEL• OPTI MUM LEVEL••TO TAL WORKING CAPITAL (XI)•0.3792* OPTIMUM LEVEL••TO TAL WORKING CAPITAL (XI)•0.3792* •TOTAL WORKING
LEVEL• OPTI MUM LEVEL••TO TAL WORKING CAPITAL (XI)•0.3792* OPTIMUM LEVEL••TO TAL WORKING CAPITAL (XI)•0.3792* •TOTAL WORKING CAPITAL
LEVEL• OPTI MUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.3792* OPTIMUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.3792* • TOTAL WORKING CAPITAL (XI)• 0.3792*
LEVEL• OPTI MUM LEVEL••TO TAL WORKING CAPITAL (XI)•0.3792* OPTIMUM LEVEL••TO TAL WORKING CAPITAL (XI)•0.3792* •TOTAL WORKING CAPITAL
LEVEL• OPTI MUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.3792* OPTIMUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.3792* • TOTAL WORKING CAPITAL (XI)• 0.3792* TOTAL
LEVEL• OPTI MUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.3792* OPTIMUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.3792* • TOTAL WORKING CAPITAL (XI)• 0.3792* TOTAL WORKING CAPITAL (XI)• 0.3792*
LEVEL• OPTI MUM LEVEL••TO TAL WORKING CAPITAL (XI)•0.3792* OPTIMUM LEVEL••TO TAL WORKING CAPITAL (XI)•0.3792* •TOTAL WORKING CAPITAL (XI)•0.3792* TOTAL WORKING CAPITAL

63• 0.3454• 4 6.16• 15.95• 1.5063• 0.345 4• 46.16• 15. 95• • HUMAN LABOUR (X2)• 0.1136* 0.3454• 46.16 • 15.95• • HU MAN LABOUR (X2)• 0.1136* 46.16• 15.95 • • HUMAN LABOUR (X2)• 0.1136* 15.95• • HUM AN LABOUR (X2)• 0.1136* • HUMAN LABOUR (X2)• 0.1136* • HUMAN • HUMAN
5• 5.05• 3.46 • • 0.6845• 5.05 • 3.46• •
5.05• 3.46• ● 3.46• ●
R ² = 0. 7841 RETURNS TO SCALE = 0.4923
NOTE: Figures in parenthesis are t – values.
* Signific ant at

ہو 11 25 26 16 27	% evel of probab ity * Signific int at i% evel of probab ity.
LARGE	
CULTIV	ATOR
S: II	n the
sample	of
Shimla,	only
two	large
farmers	were
found.	This
number	did
not leav	ve any
degree	of
freedom	to
carry o	ut the
regressi	on
analysis	
Thus,	the
present	
analysis	could
not be o	carried
out for	r this
particula	ar
category	/.
Howeve	r,
these	two
farmers	have
been in	cluded

in the total sample for Shimla and other relevant categories. ALL CULTIVATOR S: The regression analysis for the all sample of district Shimla reveals that both of the variables were able to explain 85.25 per cent of the variations in the total yield. The value of the regression coefficients were 0.4253 0.1251 and working for capital and labour respectively. Both of the coefficients were significant at

level of probability. The return to scale was found to be 0.5504 again showing the diminishing returns to scale. As in the case of individual categories of this district the resources were being
The return to scale was found to be 0.5504 again showing the diminishing returns to scale. As in the case of individual categories of this district the resources
scale was found to be 0.5504 again showing the diminishing returns to scale. As in the case of individual categories of this district the resources
found to be 0.5504 again showing the diminishing returns to scale. As in the case of individual categories of this district the resources
found to be 0.5504 again showing the diminishing returns to scale. As in the case of individual categories of this district the resources
showing the diminishing returns to scale. As in the case of individual categories of this district the resources
showing the diminishing returns to scale. As in the case of individual categories of this district the resources
returns to scale. As in the case of individual categories of this district the resources
scale. As in the case of individual categories of this district the resources
the case of individual categories of this district the resources
individual categories of this district the resources
categories of this district the resources
this district the resources
resources
woro hoing
were being
inefficiently
used, the total
working
capital to a
greater extent.
The results
indicate that
the farmers
should use
only Rs.17.83
per bag as
working
capital and
not Rs. 44.83
as they are
using at
present. In
the same

manner, the
labour was
also being
over used and
its use should
be curtailed
from present
4.76 hours per
bag to 3.59
hours per bag
in order to
arrive at the
optimum
resource
allocation.
TABLE: 8.8 REGRESSIO N COEFFICIEN TS, T-VALUE, MVP FACTOR
REGRESSIO N COEFFICIEN TS, T-VALUE, MVP
REGRESSIO N COEFFICIEN TS, T-VALUE, MVP FACTOR
REGRESSIO N COEFFICIEN TS, T-VALUE, MVP FACTOR COST RATIO FOR ALL MUSHROOM CULTIVATOR S OF DISTRICT
REGRESSIO N COEFFICIEN TS, T-VALUE, MVP FACTOR COST RATIO FOR ALL MUSHROOM CULTIVATOR S OF DISTRICT SHIMLA.
REGRESSIO N COEFFICIEN TS, T-VALUE, MVP FACTOR COST RATIO FOR ALL MUSHROOM CULTIVATOR S OF DISTRICT SHIMLA. FACTOR• CO
REGRESSIO N COEFFICIEN TS, T-VALUE, MVP FACTOR COST RATIO FOR ALL MUSHROOM CULTIVATOR S OF DISTRICT SHIMLA. FACTOR• CO EFFICIENT•
REGRESSIO N COEFFICIEN TS, T-VALUE, MVP FACTOR COST RATIO FOR ALL MUSHROOM CULTIVATOR S OF DISTRICT SHIMLA. FACTOR• CO EFFICIENT• COEFFICIEN
REGRESSIO N COEFFICIEN TS, T-VALUE, MVP FACTOR COST RATIO FOR ALL MUSHROOM CULTIVATOR S OF DISTRICT SHIMLA. FACTOR• CO EFFICIENT• COEFFICIEN T• MVP• MVP

TING
LEVEL• OPTI
MUM
LEVEL• • TO
TAL
WORKING CAPITAL
(XI) ● 0.4253*
MVP● MVP-
FACTOR
COST
RATIO• EXIS
TING
LEVEL• OPTI
MUM
LEVEL• • TO
TAL
WORKING
CAPITAL (XI)● 0.4253*
MVP-
FACTOR
COST
RATIO• EXIS
TING
LEVEL• OPTI
МИМ
LEVEL• • TO
TAL
WORKING
CAPITAL (XI)● 0.4253*
EXISTING
LEVEL• OPTI
MUM
LEVEL• • TO
TAL
WORKING
CAPITAL (XI)• 0.4253*
(M)- 0.4200

OPTIMUM
LEVEL••TO
TAL
WORKING
CAPITAL (XI)• 0.4253*
• TOTAL
WORKING CAPITAL
(XI) ● 0.4253*
TOTAL WORKING
CAPITAL
(XI)● 0.4253*
0.4253* (7.0181• 1.63
48 ● 0.3977● 4
4.83• 17.83• 1.6348• 0.397
7• 44.83• 17.
83• • HUMAN LABOUR
(X2)● 0.1251*
0.3977• 44.83
● 17.83● ● HU MAN
LABOUR
(X2) ● 0.1251* 44.83● 17.83
• • HUMAN
(X2)● 0.1251* 17.83● ● HUM
AN LABOUR
(X2)● 0.1251* ● HUMAN
LABOUR
(X2)● 0.1251*
HUMAN LABOUR
(X2)● 0.1251*
0.1251* (8.5197)• 4.50
36• 0.7506• 4
.76• 3.59• ● 4.5036• 0.750
4.5036● 0.750 6● 4.76● 3.59
• •
0.7506● 4.76 ● 3.59● ●
4.76• 3.59• •

3.59• ●
•
$R^2 = 0.8525$ RETURNS TO SCALE = 0.5504 NOTE: Figures in parenthesis are t – values.
 Sig nific ant at 1% lev el of pro bab ility ** Signific ant at 5% level of probab ility.
8.2.3 OVERALL SAMPLE OF BOTH DISTRICTS
In this section,
different
categories of
both the
districts have
been pooled
and the
analysis has

been carried	
for pooled	
categories	
and overall	
sample of	
both the	
districts.	
SMALL	
CULTIVATOR	
S: The	
analysis	
reveals that in	
present case	
the value of	
coefficient of	
multiple	
determination	
is 0.8944	
(Table 8.9).	
The individual	
coefficients	
stood	
at0.3973 and	
0.1243 for	
working	
capital and	
labour. Both	
of the	
coefficients	
were	
significant at	
one per cent	
level of	
probability.	

The returns to
scale stood at
0.6289. The
resource
allocation was
found to be
inefficient as
the values of
MVP-factor
Cost Ratio
were at
variance from
unity. The
optimum
allocation
required that
the working
capital be
slashed by
about 50 per
cent and he
use of labour
by 25 per
cent.
TABLE: 8.9 REGRESSIO
Ν
COEFFICIEN
TS, T- VALUES,
MVP

FACTOR COST
RATIO FOR
SMALL
MUSHROOM CULTIVATOR
S OF BOTH
DISTRICTS
FACTOR• CO
EFFICIENT •
COEFFICIEN
T● MVP● MVP
-FACTOR
COST
RATIO• EXIS
TING
LEVEL• OPTI
MUM
LEVEL• • TO
TAL
WORKING
(XI)● 0.4831* MVP● MVP-
FACTOR
COST
RATIO• EXIS
TING
LEVEL• OPTI
МОМ
LEVEL• • TO
WORKING CAPITAL
(XI)● 0.4831*
MVP-
FACTOR
COST

TING LEVEL• OPTI MUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.4831* EXISTING LEVEL• OPTI MUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.4831* OPTIMUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.4831* OPTIMUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* • TOTAL WOR • TOTAL •	
LEVEL• OPTI MUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.4831* EXISTING LEVEL• OPTI MUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.4831* OPTIMUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* • TOTAL • TOT	RATIO• EXIS
MUM LEVEL••TO TAL WORKING CAPITAL (XI)•0.4831* EXISTING LEVEL•OPTI MUM LEVEL••TO TAL WORKING CAPITAL (XI)•0.4831* OPTIMUM LEVEL••TO TAL WORKING CAPITAL (XI)•0.4831* OPTIMUM LEVEL•10 TAL WORKING CAPITAL (XI)•0.4831* •TOTAL •TOTA	TING
LEVEL••TO TAL WORKING CAPITAL (XI)•0.4831* EXISTING LEVEL•OPTI MUM LEVEL••TO TAL WORKING CAPITAL (XI)•0.4831* OPTIMUM LEVEL••TO TAL WORKING CAPITAL (XI)•0.4831* •TOTAL WOR •TOTAL •TOTA	LEVEL• OPTI
TAL WORKING CAPITAL (XI)• 0.4831* EXISTING LEVEL• OPTI MUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.4831* OPTIMUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* 0.4831* (6.4845)• 1.60 55• 0.4986• 43.8 • 21.87• • HU MAN	MUM
WORKING CAPITAL (XI)• 0.4831* EXISTING LEVEL• OPTI MUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.4831* OPTIMUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* 0.4831* (6.4845)• 1.60 55• 0.4986• 43.8 • 21.87• HU MAN	LEVEL••TO
CAPITAL (XI)• 0.4831* EXISTING LEVEL• OPTI MUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.4831* OPTIMUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* • OTAL WORKING CAPITAL (XI)• 0.4831* 0.4831* (6.4845)• 1.60 55• 0.4986• 4 3.8• 21.87• • 1.6055• 0.498 6• 43.8• 21.8 7• • HUMAN LABOUR (X2)• 0.1358* 0.4986• 4 3.8• 21.87• • HUMAN	TAL
(XI)• 0.4831* EXISTING LEVEL• OPTI MUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.4831* OPTIMUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* • 1.6055• 0.498 • 43.8• 21.87 • • HUMAN LABOUR (X2)• 0.1358* 0.4986• 43.8 • 21.87• • HU MAN	
EXISTING LEVEL• OPTI MUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.4831* OPTIMUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* • O + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 +	-
LEVEL• OPTI MUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.4831* OPTIMUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* • 0.4831* • 0.4831* • 0.4986• 43.8 • 21.87• • HU MAN	
MUM LEVEL••TO TAL WORKING CAPITAL (XI)•0.4831* OPTIMUM LEVEL••TO TAL WORKING CAPITAL (XI)•0.4831* •TOTAL WORKING CAPITAL (XI)•0.4831* (XI)•0.4831* OTAL WORKING CAPITAL (XI)•0.4831* 0.4831* 0.4831* 0.4831* 0.4831* 0.4831* 0.4986•43.8 7••HUMAN LABOUR (X2)•0.1358* 0.4986•43.8 •21.87••HU	
LEVEL••TO TAL WORKING CAPITAL (XI)•0.4831* OPTIMUM LEVEL••TO TAL WORKING CAPITAL (XI)•0.4831* •TOTAL WORKING CAPITAL (XI)•0.4831* TOTAL WORKING CAPITAL (XI)•0.4831* TOTAL WORKING CAPITAL (XI)•0.4831* 100000000000000000000000000000000000	
TAL WORKING CAPITAL (XI)• 0.4831* OPTIMUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* TOTAL WORKING CAPITAL (XI)• 0.4831* 0.4831* 0.4831* (6.4845)• 1.60 55• 0.4986• 4 3.8• 21.87• • 1.6055• 0.498 6• 43.8• 21.8 7• • HUMAN LABOUR (X2)• 0.1358* 0.4986• 43.8 • 21.87• • HU MAN	
WORKING CAPITAL (XI)• 0.4831* OPTIMUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* TOTAL WORKING CAPITAL (XI)• 0.4831* OA831* (6.4845)• 1.60 55• 0.4986• 4 3.8• 21.87• • 1.6055• 0.498 6• 43.8• 21.8 7• • HUMAN LABOUR (X2)• 0.1358* 0.4986• 43.8 • 21.87• • HU MAN	
CAPITAL (XI)• 0.4831* OPTIMUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* TOTAL WORKING CAPITAL (XI)• 0.4831* (A831* (6.4845)• 1.60 55• 0.4986• 4 3.8• 21.87• • 1.6055• 0.498 6• 43.8• 21.8 7• • HUMAN LABOUR (X2)• 0.1358* 0.4986• 43.8 • 21.87• • HU MAN	
(XI)• 0.4831* OPTIMUM LEVEL• • TO TAL WORKING CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* TOTAL WORKING CAPITAL (XI)• 0.4831* 0.4831* (6.4845)• 1.60 55• 0.4986• 4 3.8• 21.87• • 1.6055• 0.498 6• 43.8• 21.8 7• • HUMAN LABOUR (X2)• 0.1358* 0.4986• 43.8 • 21.87• • HU MAN	
OPTIMUM LEVEL••TO TAL WORKING CAPITAL (XI)•0.4831* •TOTAL WORKING CAPITAL (XI)•0.4831* TOTAL WORKING CAPITAL (XI)•0.4831* 0.4831* 0.4831* (6.4845)•1.60 55•0.4986•4 3.8•21.87• 1.6055•0.498 6•43.8•21.8 7•HUMAN LABOUR (X2)•0.1358* 0.4986•43.8 •21.87•HU MAN	-
TAL WORKING CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* TOTAL WORKING CAPITAL (XI)• 0.4831* 0.4831* (6.4845)• 1.60 55• 0.4986• 4 3.8• 21.87• • 1.6055• 0.498 6• 43.8• 21.8 7• • HUMAN LABOUR (X2)• 0.1358* 0.4986• 43.8 • 21.87• • HU MAN	
WORKING CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* TOTAL WORKING CAPITAL (XI)• 0.4831* 0.4831* (6.4845)• 1.60 55• 0.4986• 4 3.8• 21.87• • 1.6055• 0.498 6• 43.8• 21.8 7• • HUMAN LABOUR (X2)• 0.1358* 0.4986• 43.8 • 21.87• • HU MAN	LEVEL••TO
CAPITAL (XI)• 0.4831* • TOTAL WORKING CAPITAL (XI)• 0.4831* TOTAL WORKING CAPITAL (XI)• 0.4831* 0.4831* (6.4845)• 1.60 55• 0.4986• 4 3.8• 21.87• • 1.6055• 0.498 6• 43.8• 21.8 7• • HUMAN LABOUR (X2)• 0.1358* 0.4986• 43.8 • 21.87• • HU MAN	TAL
(XI) • 0.4831* • TOTAL WORKING CAPITAL (XI) • 0.4831* TOTAL WORKING CAPITAL (XI) • 0.4831* 0.4831* (6.4845) • 1.60 55• 0.4986• 4 3.8• 21.87• • 1.6055• 0.498 6• 43.8• 21.8 7• • HUMAN LABOUR (X2)• 0.1358* 0.4986• 43.8 • 21.87• • HU MAN	
• TOTAL WORKING CAPITAL (XI)• 0.4831* TOTAL WORKING CAPITAL (XI)• 0.4831* 0.4831* (6.4845)• 1.60 55• 0.4986• 4 3.8• 21.87• 9 1.6055• 0.498 6• 43.8• 21.8 7• • HUMAN LABOUR (X2)• 0.1358* 0.4986• 43.8 • 21.87• • HU MAN	
WORKING CAPITAL (XI)• 0.4831* TOTAL WORKING CAPITAL (XI)• 0.4831* 0.4831* (6.4845)• 1.60 55• 0.4986• 4 3.8• 21.87• • 1.6055• 0.498 6• 43.8• 21.8 7• • HUMAN LABOUR (X2)• 0.1358* 0.4986• 43.8 • 21.87• • HU MAN	
(XI) • 0.4831* TOTAL WORKING CAPITAL (XI) • 0.4831* 0.4831* (6.4845) • 1.60 55• 0.4986• 4 3.8• 21.87• • 1.6055• 0.498 6• 43.8• 21.8 7• • HUMAN LABOUR (X2)• 0.1358* 0.4986• 43.8 • 21.87• • HU MAN	-
TOTAL WORKING CAPITAL (XI)• 0.4831* 0.4831* (6.4845)• 1.60 55• 0.4986• 4 3.8• 21.87• • 1.6055• 0.498 6• 43.8• 21.8 7• • HUMAN LABOUR (X2)• 0.1358* 0.4986• 43.8 • 21.87• • HU MAN	CAPITAL
WORKING CAPITAL (XI)• 0.4831* 0.4831* (6.4845)• 1.60 55• 0.4986• 4 3.8• 21.87• • 1.6055• 0.498 6• 43.8• 21.8 7• • HUMAN LABOUR (X2)• 0.1358* 0.4986• 43.8 • 21.87• • HU MAN	· · /
CAPITAL (XI)• 0.4831* 0.4831* (6.4845)• 1.60 55• 0.4986• 4 3.8• 21.87• • 1.6055• 0.498 6• 43.8• 21.8 7• • HUMAN LABOUR (X2)• 0.1358* 0.4986• 43.8 • 21.87• • HU MAN	
(XI)• 0.4831* 0.4831* (6.4845)• 1.60 55• 0.4986• 4 3.8• 21.87• • 1.6055• 0.498 6• 43.8• 21.8 7• • HUMAN LABOUR (X2)• 0.1358* 0.4986• 43.8 • 21.87• • HU MAN	
0.4831* (6.4845)• 1.60 55• 0.4986• 4 3.8• 21.87• • 1.6055• 0.498 6• 43.8• 21.8 7• • HUMAN LABOUR (X2)• 0.1358* 0.4986• 43.8 • 21.87• • HU MAN	-
55• 0.4986• 4 3.8• 21.87• • 1.6055• 0.498 6• 43.8• 21.8 7• • HUMAN LABOUR (X2)• 0.1358* 0.4986• 43.8 • 21.87• • HU MAN	0.4831*
3.8• 21.87• • 1.6055• 0.498 6• 43.8• 21.8 7• • HUMAN LABOUR (X2)• 0.1358* 0.4986• 43.8 • 21.87• • HU MAN	
1.6055• 0.498 6• 43.8• 21.8 7• • HUMAN LABOUR (X2)• 0.1358* 0.4986• 43.8 • 21.87• • HU MAN	
7• • HUMAN LABOUR (X2)• 0.1358* 0.4986• 43.8 • 21.87• • HU MAN	
LABOUR (X2)• 0.1358* 0.4986• 43.8 • 21.87• • HU MAN	
(X2)● 0.1358* 0.4986● 43.8 ● 21.87● ● HU MAN	-
0.4986• 43.8 • 21.87• • HU MAN	
● 21.87● ● HU MAN	
	• 21.87• • HU
(X2)● 0.1358*	LABOUR
43.8• 21.87•	43.8• 21.87•
21.87• • HUM	

AN LABOUR (X2)• 0.1358* • HUMAN LABOUR (X2)• 0.1358* HUMAN LABOUR (X2)• 0.1358* 0.1358* (11.4117)• 4.6 532• 0.7755• 4.6532• 0.7755 5• 4.25• 3.30 • 0.7755• 4.25 • 3.30• • 4.25• 3.30• • 3.30• •
R ² = 0. 8944 RETURNS TO SCALE = 0.6189
NOTE: Figures in parenthesis are t – values.
* Signific ant at 1% level of probab ility ** Signific ant at 5% level of probab ility.
<i>MEDIUM</i> <i>CULTIVATOR</i> <i>S:</i> The value

2 .
of R ² in case
of medium
farmers was
found to be
0.7966
indicating that
about 80 per
cent of the
variations in
the mushroom
output are
explained by
the present
model. The
regression
coefficients
which were
significant at
one per cent
level of
probability
were 0.3973
and 0.1243
for working
capital and
labour
respectively.
In this case
also the
returns to the
scale were
diminishing.
The resource
allocation was
inefficient as

COST		
RATIO • EXISTING		
LEVEL • OPTIMUM		
LEVEL••TOTAL		
(XI)● 0.3973* MVP-FACTOR COST		
RATIO • EXISTING		
LEVEL. OPTIMUM		
LEVEL••TOTAL		
WORKING CAPITAL		
(XI)● 0.3973* EXISTING		
LEVEL• OPTIMUM		
LEVEL®®TOTAL		
WORKING CAPITAL		
(XI)● 0.3973*		
OPTIMUM		
LEVEL••TOTAL		
(XI)• 0.3973* • TOTAL WORKING		
CAPITAL (XI)• 0.3973*		
TOTAL WORKING		
CAPITAL (XI)= 0.3973*		
0.3973*		
(5.9738)● 1.4681● 0.3 321● 45.77● 15.97● ●		
1.4681• 0.3321• 45.7		
7• 15.97• ● HUMAN LABOUR		
(X2)• 0.1243*		
0.3321• 45.77• 15.97 • • HUMAN LABOUR		
(X2)●0.1243*		
45.77• 15.97• ● HUM AN LABOUR		
(X2)● 0.1243*		
15.97• ● HUMAN LABOUR		
(X2)●0.1243*		
• HUMAN LABOUR (X2)• 0.1243*		
HUMAN LABOUR		
(X2)● 0.1243* 0.1243*		
(7.3186)• 4.4010• 0.7		
335• 4.77• 3.63• ● 4.4010• 0.7335• 4.77		
● 3.63● ●		
0.7335• 4.77• 3.63• 4.77• 3.63• ●		
3.63• ●		
•		
$R^2 = 0.7966$		
RETURNS TO		
SCALE = 0.5216		
NOTE: Figures in		
parenthesis are t-		
values.		
* Significant		
at 1% level		
of probability		

** Significant at 5% level of probability.		
LARGE		
CULTIVATOR		
S: The model		
applied to		
large		
cultivators of		
both the		
districts		
together		
returned the		
value of R ² as		
0.9360 and		
the		
coefficients		
stood		
at1.4007 and		
0.1161 for		
working		
capital and		
labour		
respectively.		
The		
coefficients		
were		
significant at		
one per cent		
level of		
probability.		
The results of		
the analysis		
indicate that		

the use of	
working	
capital should	
be reduced	
from Rs.	
45.29 per bag	
to Rs. 14.43	
and the labour	
from 4.76	
hours per bag	
to 3.35 for	
getting the	
production to	
the optimum	
level.	
TABLE: 8.11 REGRESSIO N COEFFICIEN TS, STANDRED ERRORS, MVP FACTOR COST	
N COEFFICIEN TS, STANDRED ERRORS, MVP FACTOR	
N COEFFICIEN TS, STANDRED ERRORS, MVP FACTOR COST	
N COEFFICIEN TS, STANDRED ERRORS, MVP FACTOR	
N COEFFICIEN TS, STANDRED ERRORS, MVP FACTOR COST RATIO FOR LARGE MUSHROOM CULTIVATOR S OF BOTH	
N COEFFICIEN TS, STANDRED ERRORS, MVP FACTOR COST RATIO FOR LARGE MUSHROOM CULTIVATOR S OF BOTH DISTRICTS	
N COEFFICIEN TS, STANDRED ERRORS, MVP FACTOR COST RATIO FOR LARGE MUSHROOM CULTIVATOR S OF BOTH DISTRICTS	
N COEFFICIEN TS, STANDRED ERRORS, MVP FACTOR COST RATIO FOR LARGE MUSHROOM CULTIVATOR S OF BOTH DISTRICTS FACTOR• CO EFFICIENT•	
N COEFFICIEN TS, STANDRED ERRORS, MVP FACTOR COST RATIO FOR LARGE MUSHROOM CULTIVATOR S OF BOTH DISTRICTS FACTOR• CO EFFICIENT• COEFFICIEN	

COST
RATIO• EXIS
TING
MVP• MVP-
FACTOR
COST
RATIO• EXIS
TING
MVP-
FACTOR
COST
RATIO• EXIS
TING
EXISTING
LEVEL
LEVEL• • TO
WORKING CAPITAL
(XI)● 0.4007*
OPTIMUM
LEVEL• • TO
TAL
WORKING
(XI)● 0.4007* ● TOTAL
WORKING
CAPITAL
(XI)● 0.4007*
TOTAL
WORKING
(XI) ● 0.4007* 0.4007*
(7.4963)• 1.52
16• 0.3170• 4
5.529• 14.43
• • HUMAN
(X2)● 0.116*

1.5216• 0.317 0• 45.529• 14 .43• • HUMA N LABOUR (X2)• 0.116* 0.3170• 45.52 9• 14.43• • H UMAN LABOUR (X2)• 0.116* 45.529• 14.43 • HUMAN LABOUR (X2)• 0.116* 14.43• • HUM AN LABOUR (X2)• 0.116* • HUMAN LABOUR (X2)• 0.116* • HUMAN LABOUR (X2)• 0.116* • HUMAN LABOUR (X2)• 0.116* • HUMAN LABOUR (X2)• 0.116* • HUMAN LABOUR (X2)• 0.116* • HUMAN LABOUR (X2)• 0.116* 0.116* (X2)• 0.116* 0.116* 0.116* 0.116* 0.116* 0.7386• 4.4316• 0.738 6• 4.5294• 3. 3454• • 0.7386• 4.529 4• 3.3454• •
R ² = 0. 9360 RETURNS TO SCALE = 0.5168
NOTE: Figures in parenthesis are t – values.
* Signific ant at 1% level of

probab ility		
**	gnific	
an		
5%		
	vel of obab	
ility		
OVERAL	L	
SAMPLE	: At	
over all	level	
of all sa	mple	
of both	the	
districts,	the	
model	was	
able to ex	plain	
86.47 per	cent	
variations	in	
the mush	room	
output,	the	
value of	R^2	
being 0.8	3647.	
The valu	e of	
returns	to	
scale	was	
found to	be	
0.5432		
indicating	that	
in the sta	ate if	
both	the	
inputs u	Inder	
considera	tion	
are incre	ased	
by one	per	
cent	the	
output	of	

mushroom
would on an
average
increase by
0.5432 per
cent. Still the
diminishing
returns to
scale have
been
observed in
the present
case. The
MVP-factor
cost ratio in
case of
working
capital was
only 0.3348
considerably
lower than
unity
indicating the
over use of
this resource.
On the other
hand, this
statistics for
labour was
comparatively
closer to unity,
being 0.7303.
But still this
resource was
also being

overused.
The analysis
indicates that
the working
capital should
be curtailed
from present
level of Rs.
44.83 per bag
to Rs. 15.06
to attain
optimum level
of production.
These figures
for labour
stood at 4.76
and 3.48 hour
per bag.
TABLE: 8.12 REGRESSIO
Ν
COEFFICIEN TS,
STANDRED
ERRORS, MVP
FACTOR
COST
RATIO FOR
ALL MUSHROOM CULTIVATOR
MUSHROOM CULTIVATOR S OF BOTH
MUSHROOM CULTIVATOR
MUSHROOM CULTIVATOR S OF BOTH
MUSHROOM CULTIVATOR S OF BOTH DISTRICTS
MUSHROOM CULTIVATOR S OF BOTH DISTRICTS FACTOR• CO EFFICIENT•
MUSHROOM CULTIVATOR S OF BOTH DISTRICTS FACTOR• CO

-FACTOR
COST
RATIO• EXIS
TING
LEVEL• OPTI
МОМ
LEVEL• • TO
TAL WORKING CAPITAL (XI)• 0.4169* MVP• MVP-
FACTOR
COST
RATIO• EXIS
TING
LEVEL• OPTI
МОМ
LEVEL• • TO
TAL WORKING CAPITAL (XI)• 0.4169* MVP-
FACTOR
COST
RATIO• EXIS
TING
LEVEL• OPTI
МОМ
LEVEL• • TO
TAL WORKING CAPITAL (XI)• 0.4169* EXISTING LEVEL• OPTI MUM

LEVEL• • TO
TAL
WORKING
CAPITAL
(XI)● 0.4169*
OPTIMUM
LEVEL• • TO
TAL
WORKING
CAPITAL
(XI)● 0.4169*
• TOTAL
WORKING
CAPITAL
(XI) ● 0.4169*
TOTAL
WORKING
CAPITAL
(XI) ● 0.4169*
0.4169*
(11.0349)• 1.5
367• 0.3348•
1.5367• 0.334
8• 44.83• 15.
01• • HUMAN
LABOUR
(X2)● 0.1263*
0.3348• 44.83
• 15.01• ● HU
MAN
LABOUR
(X2)● 0.1263*
44.83• 15.01
• • HUMAN
LABOUR
(X2)● 0.1263*
15.01● ● HUM
AN LABOUR
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8• • 0.73032• 4.76 • 3.48• • 4.76• 3.48• • 3.48• •
R ² = 0. 8647 RETURNS TO SCALE = 0.5432
NOTE: Figures in parenthesis are t – values.
* Signific ant at 1% level of probab ility ** Signific ant at 5% level of probab ility.
8.3
CONCLUSIO
NS
From the
above
discussion it
may be
concluded
that the
mushroom
production in

the	ototo	ia
	state	is
-	ating	in
	state	
dimir	hishing	
retur	ns	to
scale	e	The
regre	ession	
coeff	ficients	;
have	e tur	ned
out	to	be
invar	riably	
signi	ficant	and
henc	e can	be
used	l for	the
planı	ning	
purp	ose.	The
value	es of R	² in
diffe	rent	
case	s indic	ate
that		the
work	ing	
capit	al a	and
labo	ur are	the
most	t cru	cial
input	ts but	are
bein	g	
over	used ir	n all
the	cases.	lt
is		
reco	mmen	ded
that	their	use
may		be
curta	ailed	to
	optim	um
level	•	ere

is need of educating the i farmers i regarding this aspect. This can be achieved i various i extension ag agencies i concerned i with this job. i MARKETING of MUSHROOM of S i Although, the in mushroom in cultivation in in be considered in infancy, it is in bound to infancy, it is in future due to o concerted in efforts of state Govt and agencies like National	
farmers regarding this aspect. This can be achieved various extension agencies concerned with this job. CHAPTER -IX MARKETING OF MUSHROOM S Although, the mushroom cultivation in the state can be considered to be in its infancy, it is bound to increase in future due to concerted efforts of State Govt and agencies	is need of
regarding this aspect. This can be achieved various extension agencies concerned with this job. CHAPTER -IX MARKETING OF MUSHROOM S Although, the mushroom cultivation in the state can be considered to be in its infancy, it is bound to increase in future due to concerted efforts of State Govt and agencies	educating the
aspect. This can be achieved various extension agencies concerned with this job. CHAPTER -IX MARKETING OF MUSHROOM S Although, the mushroom cultivation in the state can be considered to be in its infancy, it is bound to increase in future due to concerted efforts of State Govt and agencies	farmers
canbeachievedvariousextensionagenciesconcernedwith this job.CHAPTER -IXMARKETING OF MUSHROOM SAlthough, the mushroomcultivation in the state can be considered to be in its infancy, it is bound to increase in future due to concertedinfancy, it is bound to increase in future due to concertedefforts of State Govt and agencies	regarding this
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extension agencies concerned with this job. CHAPTER -IX MARKETING OF MUSHROOM S Although, the mushroom cultivation in the state can be considered to be in its infancy, it is bound to increase in future due to concerted efforts of State Govt and agencies	achieved
agencies concerned with this job. CHAPTER -IX MARKETING OF MUSHROOM S Although, the mushroom cultivation in the state can be considered to be in its infancy, it is bound to increase in future due to concerted efforts of State Govt and agencies	various
concerned with this job. CHAPTER -IX MARKETING OF MUSHROOM S Although, the mushroom cultivation in the state can be considered to be in its infancy, it is bound to increase in future due to concerted efforts of State Govt and agencies	extension
with this job. CHAPTER -IX MARKETING OF MUSHROOM S Although, the mushroom cultivation in the state can be considered to be in its infancy, it is bound to increase in future due to concerted efforts of State Govt and agencies	agencies
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OF MUSHROOM S Although, the mushroom cultivation in the state can be considered to be in its infancy, it is bound to increase in future due to concerted efforts of State Govt and agencies	CHAPTER -IX
OF MUSHROOM S Although, the mushroom cultivation in the state can be considered to be in its infancy, it is bound to increase in future due to concerted efforts of State Govt and agencies	
MUSHROOM S Although, the mushroom cultivation in the state can be considered to be in its infancy, it is bound to increase in future due to concerted efforts of State Govt and agencies	MARKETING
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Although, the mushroom cultivation in the state can be considered to be in its infancy, it is bound to increase in future due to concerted efforts of State Govt and agencies	
mushroom cultivation in the state can be considered to be in its infancy, it is bound to increase in future due to concerted efforts of State Govt and agencies	Ŭ
cultivation in the state can be considered to be in its infancy, it is bound to increase in future due to concerted efforts of State Govt and agencies	Although, the
the state can be considered to be in its infancy, it is bound to increase in future due to concerted efforts of State Govt and agencies	mushroom
be considered to be in its infancy, it is bound to increase in future due to concerted efforts of State Govt and agencies	cultivation in
to be in its infancy, it is bound to increase in future due to concerted efforts of State Govt and agencies	the state can
infancy, it is bound to increase in future due to concerted efforts of State Govt and agencies	be considered
bound to increase in future due to concerted efforts of State Govt and agencies	to be in its
increase in future due to concerted efforts of State Govt and agencies	infancy, it is
future due to concerted efforts of State Govt and agencies	bound to
concerted efforts of State Govt and agencies	increase in
efforts of State Govt and agencies	future due to
State Govt and agencies	concerted
and agencies	efforts of
_	State Govt
like National	and agencies
	like National

who ultimately
pay for every
thing. Thus, it
is very
important to
provide place
utility to the
final product
and this
where the role
of marketing
becomes
crucial. The
aim should be
to make
available the
product to
consumer in
fresh form
and at least
possible price,
providing
sustainable
incentives to
all engaged in
production
and
marketing.
The ideal
marketing
system should
also take into
account the
changing
tastes and

preferences,
future
demand and
supply,
processing,
stabilisation of
demand and
prices etc.
In the present
chapter, an
attempt has
been made to
study the
existing
marketing
system of
mushroom.
The chapter
includes
marketing
channels,
pattern of
disposal,
mode of
transportation,
marketing
margins and
costs etc.
9.1.
Marketing
Channels
The various
marketing
-

channels being used by the sampled mushroom cultivators are following: 1. Producer-Retailer-Consumer 2. Producer-Consumer 3. Producer-Co-operative-Retailer-Consumer 9.2 PATTERN OF **MUSHROOM** DISPOSAL All the production of mushroom is disposed off through the listed above marketing channels. The percentage of produce

- finding its way
- through different

channels varied in each district. The following provides details.

9.2.1

SOLAN

The analysis reveals that in district Solan the channel-III through cooperatives is most prevalent (Table 9.1). Of the total about 1740 Qtls of mushrooms marketed by sampled growers in Solan, about 68 per cent was disposed of through this channel. Also the popularity of this channel decreased with size of

operation.
This is
because it is
difficult to
market small
quantities
without
pooling them.
On the other
hand larger
categories
could manage
as they had
larger
marketable
surplus. The
second in
popularity was
selling the
mushrooms to
retailers.
About 22 per
cent produce
found its way
through this
channel. The
rest about 10
per cent was
disposed of
directly to
consumers.
9.2.2
SHIMLA
In district

Shimla only
two channels
viz. through
retailers and
direct sale to
consumers
were
observed.
The channel
involving the
co-operative
was absent in
this district.
The reason
for this
scenario is
that most of
the growers in
this district are
located in
vicinity of
Shimla city.
Thus, it was
possible for
them to have
direct contacts
with the
retailers or
many of them
also sold it
house to
house i.e.
directly to
consumers.
Despite this

intensive, increases their profits as
their profits as
compared
with other
channels.
The analysis
reveals that at
overall level,
about 78 per
cent of
marketable
surplus was
being
disposed of
through
channel-I i.e.
through
retailers and
the rest about
22 per cent by
selling directly
to consumers
i.e. channel-II.
9.2.3
OVERALL
At overall
level channel-
III was most
commonly
used channel,
about 53 per
cent of

2219.50 Qtls
of mushrooms
finding their
way through
this channel.
The next in
importance is
the channel-I,
34.32 per cent
of marketed
mushroom
being
disposed of
through this
channel.
About 12 per
cent of
mushroom
were
marketed
directly to
consumers at
overall land.
TABLE: 9.1 PATTERN OF DISPOSAL OF MUSHROOMS.
(% OF TOTAL QTY)
CHANNEL CATEG
ORY•••SMALL•M EDIUM•LARGE•OV
ERALL® SOLAN® CATEGORY® ® SM ALL® MEDIUM® LAR
GE• OVERALL••S OLAN•• CHANNEL-
1 ••SMALL•MEDIU
M● LARGE● OVERA LL●● SOLAN●● CH
ANNEL-1 ● SMALL● MEDIUM
• LARGE• OVERALL • • SOLAN• • CHAN
NEL-1

SMALL MEDIUM L ARGE• OVERALL• MEDIUM • LARGE • LARGE • OVERALL • OVERALL••SOLAN • • CHANNEL-1 SOLAN
 CHANN EL-1 SOLAN® CHANNE L-1 CHANNEL-1 CHANNEL-1 -II -**III**• 15.00 15.00 5.00 80.00• 20.00 20.00 8.00 72.00• 23.00 23.00 10.00 67.00• 22.24 22.24 9.50 68.26• • TOTAL QTY.MARKETED® 8 5.00 TOTAL QTY.MARKETED®8 5.00 TOTAL QTY.MARKETED®8 5.00 85.00 (100.00) • 213.50 213.50 (100.00) • 1441.00 1441.00 (100.00)• 1739.50 1739.50 (100.00)• • SHIMLA • • CHANNEL-1 SHIMLA
 CHANN EL-1 SHIMLA® • CHANNE L-1 • CHANNEL-1 CHANNEL-1 -11 -III• 82.00 82.00 18.00 -• 78.00 78.00 22.00 -• 75.00 75.00 25.00 -• 78.06 78.06 21.94 -• • TOTAL QTY.MARKETED® 8 6.00 • TOTAL QTY.MARKETED®8 6.00 TOTAL QTY.MARKETED® 8 6.00 86.00 (100.00) • 289.00 289.00 (100.00)• 105.00• 48 0.00• • OVERALL• •

105.00• 480.00• **• O** VERALL. • CHANNE L-1 480.00• • OVERALL • • CHANNEL-1 OVERALL
 • CHA NNEL-1 OVERALL. CHAN NEL-1 • CHANNEL-1 CHANNEL-1 -11 -III• 48.69 48.69 11.54 39.77• 53.36 53.36 16.05 30.59• 26.53 26.53 11.02 62.45• 34.32 34.32 12.19 53.49• • TOTAL QTY.MARKETED® 1 71.00• 502.50• 1546. 00• 2219.50• • TOTAL QTY.MARKETED 1 71.00• 502.50• 1546. 00• 2219.50• • TOTAL QTY.MARKETED 1 71.00• 502.50• 1546. 00• 2219.50• • 171.00• 502.50• 154 6.00• 2219.50• • 502.50• 1546.00• 22 19.50• • 1546.00• 2219.50• • 2219.50• • .

9.3

GRADING

The grades provided by National the Centre for Mushroom Research and Training have become more or less accepted for norms producers as

well	as
buyers.	
These	in
descend	ling
order are	e:
1. B	utton
S	
W	/here
Cá	ap of
m	lushro
0	m is
b	etwee
n	1-2
in	ches
in	l
di	amet
e	r and
mem	brane
is	intact.
This	most
supe	
grade	э.
_	
2.	Cups
	ps the
	brane
	eaking
and	has
seco	
•	ion in
gradi	ng.
<u>о</u> г	
	lats/O
p	ens/U

mbrell a Where the gills are fully visible and is most inferior or third

grade.

9.4

PACKING

The fresh mushrooms packed are only in polythene bags of 200 gms. This is the only size packed and available in market. the These bags further are packed in cfb cartons for these taking market. to The capacity of these

oortopo oro
cartons are
around 10 kg
each. The
carton are
collected back
after delivery
and are re-
used two to
three times.
9.5 MODE
OF
TRANSPORT
ATION
The different
modes of
transportation
were
observed to
be different
for local and
distant
markets. Far
local markets
of Solan and
Shimla these
were as head
load, cycle or
being sold at
farm itself
(Table 9.2).
(Table 9.2).
(Table 9.2). For distant

Solan and
those located
away from
Shimla city)
and
Chandigarh it
was invariably
the buses.
The quantum
of produce
was such that
trucks are not
used at all.
The following
provides
details of
different
modes of
transportation
used in both
the districts
and at overall
level.
9.5.1
SOLAN In
Solan 56 per
cent produce
was sent by
buses to
Shimla and 14
per cent to
Chandigarh
by same
mode. In

local	m	arket
of	S	Solan
24.80	per	cent
of t	he	total
produ	ice	was
marke	eted	by
using		
cycles	s/sco	oter
s and	l the	rest
5.20	per	cent
was	solo	d at
farm i	itself	

9.5.2

SHIMLA In Shimla 80 percent of the total produce brought was Shimla to market using buses. No supplies were made to Chandigarh. In the local market, 1.82 per cent was sold by carrying it as head load and the rest 11.67 per cent was sold at farm gate itself.

9.5.3 OVERALL At overall level 61.19 10.97 and percent of total marketed quantity of mushrooms was sent to and Shimla Chandigarh respectively using buses. In local 1.82 market percent was marketed by carrying as head load, 19.44 per cent by using cycle/scooter and the rest 6.58 percent was disposed of at the farm to gate consumers. **TABLE: 9.2** MODE OF TRANSPORT ATION ADOPTED.

(% of
produce)
MODE•••
• • • LOCAL
MARKET• DI
STANT
MARKETS
• LOCAL
MARKET• DI
STANT
-
MARKETS
LOCAL
MARKET• DI
STANT
MARKETS
LOCAL
MARKET• DI
STANT
•
MARKETS
DISTANT
MARKETS
Shimla
Chandigarh•
• • • • • • S
OLAN• • HEA
D LOAD• -• -
• -
• • CYCLE• 2
4.80• -• -
• • BUS• -
• 56.00• 14.0
0• • TRUCK•
• • • • • SO
LAN• • HEAD
LOAD• -• -• -
• • CYCLE• 2
4.80• -• -
• • BUS• -
• 56.00• 14.0
0• • TRUCK•
• I• II• • SOL
AN∙ • HEAD
LOAD• -• -• -
• • CYCLE• 2
4.80• -• -
• • BUS• -
• • BUS• -
• • BUS• - • 56.00• 14.0
• • BUS• - • 56.00• 14.0 0• • TRUCK•
• • BUS• - • 56.00• 14.0 0• • TRUCK• I• II• • SOLA
• BUS• - • 56.00• 14.0 0• • TRUCK• I• II• • SOLA N• • HEAD
• BUS• - • 56.00• 14.0 0• • TRUCK• I• II• • SOLA N• • HEAD
• • BUS• - • 56.00• 14.0 0• • TRUCK• I• II• • SOLA

4.80• -• -
• • BUS• -
• 56.00• 14.0
0● ● TRUCK●
II• • SOLAN•
• SOLAN • • H
EAD LOAD• -
• -• -
• • CYCLE• 2
4.80• -• -
• • BUS• -
• 56.00• 14.0
SOLAN• • HE
AD LOAD• -
• -• -
• • CYCLE• 2
4.80• -• -
• • BUS• -
• 56.00• 14.0
0● ● TRUCK●
• HEAD
LOAD• -• -• -
• • CYCLE• 2
4.80• -• -
• • BUS• -
• 56.00• 14.0
0• • TRUCK•
HEAD
LOAD• -• -• -
• • CYCLE• 2
4.80• -• -
• • BUS• -
• 56.00• 14.0
0• • TRUCK•
• • CYCLE• 2
4.80• -• -
• • BUS• -
• 56.00• 14.0
0● ● TRUCK●
-• -
• • CYCLE• 2
4.80• -• -
• • BUS• -
• 56.00• 14.0
0● ● TRUCK●
-
• • CYCLE• 2
4.80• -• -
• • BUS• -
• 56.00• 14.0
0• • TRUCK•

• CYCLE• 24. 80• -• - • BUS• - • 56.00• 14.0
0• • TRUCK• CYCLE• 24.8 0• -• -
• BUS• - • 56.00• 14.0 0• • TRUCK• 24.80• -• -
• BUS• - • 56.00• 14.0 0• • TRUCK• -• -• • BUS• -
• 56.00• 14.0 0• • TRUCK• -• • BUS• - • 56.00• 14.0
0• • TRUCK• • BUS• - • 56.00• 14.0
0• • TRUCK• BUS• - • 56.00• 14.0 0• • TRUCK•
• 56.00• 14.0 0• • TRUCK• 56.00• 14.00
• TRUCK• - • -• -• • AT FARM• 5.20• 14.00• • TRU
CK• -• -• - • AT FARM• 5.20• • TRUCK• -• -
• -• • AT FARM• 5.20• TRUCK• -• -
• -• • AT FARM• 5.20• -• -• -• • AT FARM• 5.20•
-• -• • AT FARM• 5.20• -• • AT FARM• 5.20•
• AT
FARM• 5.20• AT FARM• 5.20•

5.20 • SHIMLA • HEAD LOAD • 8.33 • HEAD LOAD • 8.33 • • CYCLE • • BUS • - • CYCLE • HEAD LOAD • 1.82 - • CYCLE • HEAD LOAD • 1.82 - • OVERALL • HEAD LOAD • TRUCK • - • - • OVERALL • HEAD LOAD • TRUCK • - • - • OVERALL • HEAD LOAD • TRUCK • - • - • - • - • - • - • - • -	
••SHIMLA• •SHIMLA••H EAD LOAD•8.33• •HEAD LOAD•8.33• HEAD LOAD•8.33• B.33• •CYCLE•- •BUS•- •80.00•- •TRUCK•- ••AT FARM•11.67 •- •BUS•- •BUS•- •BUS•- •BUS•- •BUS•- •BUS•- •BUS•- •CYCLE•- •FARM•11.67 •- •SOVERALL •HEAD LOAD•1.82• •CYCLE•- •BUS•- •BUS•- •BUS•- •AT FARM•11.67 •- •AT FARM•11.67 •- •AT FARM•11.67 •- •AT FARM•11.67	
• SHIMLA• • H EAD LOAD• 8.33• • HEAD LOAD• 8.33• HEAD LOAD• 8.33• 8.33• • CYCLE• - • BUS• - • 80.00• - • TRUCK• - • • AT FARM• 11.67 • • OVERALL • HEAD LOAD• 1.82• • BUS• - • 80.00• - • TRUCK• - • - • AT FARM• 11.67 • • OVERALL • HEAD LOAD• 1.82• -• CYCLE• - • BUS• - • 80.00• - • TRUCK• - • -• - • AT FARM• 11.67 • -• - • BUS• - • 80.00• - • TRUCK• - • -• - • AT FARM• 11.67 • -• - • BUS• - • 80.00• - • TRUCK• - • -• - • AT FARM• 11.67	• • SHIMLA•
 HEAD LOAD 8.33 	• SHIMLA• • Shimla• • H Ead
 CYCLE BUS 80.00 TRUCK TRUCK AT FARM 11.67 OVERALL HEAD LOAD 1.82 CYCLE BUS 80.00 TRUCK 80.00 TRUCK AT FARM 11.67 FARM 11.67 OVERALL HEAD LOAD TRUCK AT FARM 11.67 OVERALL HEAD CYCLE AT FARM 11.67 FARM 11.67 TRUCK AT AT AT AT AT CYCLE HEAD LOAD TRUCK AT FARM 11.67 CYCLE HEAD CAD AT FARM 11.67 FARM 11.67 FARM AT FARM AT FARM AT SU.00 BUS BUS SU.00 BUS SU.00 SU.00 	• HEAD LOAD• 8.33• HEAD
 TRUCK AT AT ARM 11.67 BRAD HEAD HEAD CYCLE BUS BUS BUS TRUCK TRUCK AT AT AT AT OVERALL HEAD LOAD 1.82 CYCLE BUS BUS AT FARM 11.67 CYCLE BUS BUS S0.00 TRUCK AT 	• • CYCLE• - • -• - • • BUS• -
FARM• 11.67 ••• OVERALL •• HEAD LOAD• 1.82• ••• CYCLE• - ••• BUS• - •• 80.00• - •• TRUCK• - ••• AT FARM• 11.67 ••• - •• OVERALL •• HEAD LOAD• 1.82• -•• CYCLE• - •• BUS• - •80.00• - •• TRUCK• - ••• AT FARM• 11.67 ••• AT FARM• 11.67 ••• OVERALL •• HEAD LOAD• 1.82• ••• OVERALL •• HEAD LOAD• 1.82• ••• OVERALL •• HEAD LOAD• 1.82• ••• BUS• - ••• BUS• - •• BUS•	• • TRUCK• -
 HEAD LOAD 1.82 CYCLE BUS 80.00 TRUCK TRUCK TRUCK AT FARM 11.67 HEAD LOAD 1.82 CYCLE BUS 80.00 TRUCK BUS 80.00 TRUCK AT FARM 11.67 FARM 11.67 HEAD AT BUS AT BUS AT FARM 11.67 HEAD CYCLE HEAD CYCLE BUS CYCLE BUS S0.00 BUS S0.00 S0.00 	FARM• 11.67 • -• -
• -• - • BUS• - • 80.00• - • TRUCK• - • -• -• AT FARM• 11.67 • -• - • OVERALL • HEAD LOAD• 1.82• -• CYCLE• - • BUS• - • 80.00• - • TRUCK• - • -• - • AT FARM• 11.67 • -• - • OVERALL • HEAD LOAD• 1.82• • HEAD LOAD• 1.82• • CYCLE• • BUS• - • BUS• - • BUS• - • BUS• - • - • BUS• - • - • BUS• - • 80.00• -	• • HEAD LOAD• 1.82•
• 80.00 - • TRUCK - • • AT FARM • 11.67 • • OVERALL • HEAD LOAD • 1.82 - • CYCLE • - • BUS • • 80.00 - • TRUCK • • - • • AT FARM • 11.67 • - • - • OVERALL • HEAD LOAD • 1.82 • CYCLE • • BUS • • 80.00 •	• -• -
• -• - • OVERALL • HEAD LOAD• 1.82• -• CYCLE• - • BUS• - • 80.00• - • TRUCK• - • -• • AT FARM• 11.67 • -• - • OVERALL • HEAD LOAD• 1.82• • CYCLE• -• - • 80.00• -	● 80.00● - ● TRUCK● - ● -● -● ● AT
LOAD • 1.82 -• CYCLE • - • BUS • - • 80.00 • - • TRUCK • - • -• • AT FARM • 11.67 • -• - • OVERALL • HEAD LOAD • 1.82 • CYCLE • -• - • BUS • - • 80.00 • -	• -• - • • OVERALL
• 80.00 - • TRUCK• - • -• -• AT FARM• 11.67 • -• - • OVERALL • HEAD LOAD• 1.82• • CYCLE• -• - • -• • BUS• - • 80.00• -	LOAD• 1.82• -• • CYCLE• - • -• -
• -• - • • OVERALL • • HEAD LOAD• 1.82• • CYCLE• -• - • -• • BUS• - • 80.00• -	● 80.00● - ● ● TRUCK● - ● -● -● ● AT
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• -• -• • AT
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7••TRUCK• • 61.19•10.9 7••TRUCK• 61.19•10.97 • TRUCK•- • -• -• AT FARM• 6.58• 10.97• TRU CK• -• -• • AT FARM• 6.58• TRUCK• -• • -• AT FARM• 6.58• TRUCK• -• • -• AT FARM• 6.58• -• -• • AT FARM• 6.58• -• -• • AT FARM• 6.58• -• -• • AT FARM• 6.58•

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9.6
MARKETING
COSTS AND
MARGINS
The marketing
process for
mushrooms
has to be very
quick and
efficient
because due
to high
parishability
the produce
has to reach
the consumer
within least
possible time.
The high
parishability
also dictates
that the
marketing
channels have
to be short so
that least
possible time

is consumed in marketing process. In this regard, the study of mushroom marketing assumes greater importance because from idea judgement regarding efficiency of marketing can be had as to weather various intermediaries are providing the reasonable for various intermediaries af for are providing for various for for intermediaries for for various for intermediaries for for worked out for for for have been for have been for have been for	
process. In this regard, the study of mushroom marketing assumes greater importance because from because from it a judgement regarding efficiency of marketing can be made be made and idea can be made idea can intermediaries are intermediaries for various for intermediaries have have been worked out idifferent	is consumed
this regard, the study of mushroom marketing assumes greater importance because because from it a judgement regarding efficiency of marketing can be made be made be made idea can be made idea can be made idea can idea can <td>in marketing</td>	in marketing
the study of mushroom marketing assumes greater importance because from because from it a judgement regarding efficiency of marketing can be be made and idea can be had as to weather various intermediaries are providing the services at reasonable for rates or not. The marketing margins for various intermediaries for various for margins for for various for intermediaries for warious for intermediaries for warious for intermediaries for warious for intermediaries for warious for intermediaries for bave been worked out for for different for <	process. In
mushroom marketing assumes greater importance because from it a judgement regarding efficiency of marketing can be made and idea can be had as to weather various intermediaries are providing the services at reasonable rates or not. The marketing margins for various intermediaries have been worked out for different channels in both the	this regard,
marketing assumes greater importance because from it a judgement regarding efficiency of marketing can be made and idea can be had as to weather various intermediaries are providing the services at reasonable rates or not. The marketing margins for various intermediaries have been worked out for different channels in both the	the study of
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greater importance because from it a judgement regarding efficiency of marketing can be made and idea can be had as to weather various intermediaries are providing the services at reasonable rates or not. The marketing margins for various intermediaries have been worked out for different channels in	marketing
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are providing the services at reasonable rates or not. The marketing margins for various intermediaries have been worked out for different channels in both the	various
the services at reasonable rates or not. The marketing margins for various intermediaries have been worked out for different channels in both the	intermediaries
reasonable rates or not. The marketing margins for various intermediaries have been worked out for different channels in both the	are providing
rates or not. The marketing margins for various intermediaries have been worked out for different channels in both the	the services at
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intermediaries have been worked out for different channels in both the	margins for
have been worked out for different channels in both the	various
worked out for different channels in both the	intermediaries
different channels in both the	have been
channels in both the	worked out for
both the	different
	channels in
district and	both the
	district and

local retailers
and dispose
of the
mushroom
through them.
it has been
observed that
in this channel
the average
price paid by
the consumer
was Rs.64.06
per kg. Out of
this amount
producers
share is 67.06
percent. But
he has to
incur
expenses on
packing,
transportation
and other
items like
labour etc.
This his net
margin turned
out to be
61.19 per cent
or Rs.39.20
per kg. The
retailers
purchase
price was
Rs.42.96 per

kg. The
expenses
born by
retailer were
Rs.4.75 per
kg. and they
were
observed to
be taking a
profit margin
of Rs.16.35
per kg.
Channel-II
In this channel
the producer
directly sell
the
mushrooms to
consumer
who visit their
farms for to
purpose.
Though this is
a most
profitable
channel, the
transaction
through this is
very low. The
consumer
were
observed to
be paying are
average price

of Rs.45 per
kg of
mushroom on
farm gate.
The only
expenses the
producer has
to incur is
packing which
amounted to
only Rs.0.58
per kg.
Hence, the
producer
could earn
Rs.44.82 per
kg or 98.71
per cent of the
price paid by
the consumer.
Channel- III
This channel
refers to
involvement of
co-operative
in the
marketing
chain. When
the produce is
sent to Shimla
market it is
brought to a
shop which is
rented by the

group	of
mushro	om
growers	s and
they	have
posted	а
person	to look
after	further
marketi	ing
process	s. This
co-ope	rative
is n	ot a
register	red co-
operativ	ve but
all	the
functior	ns of
marketi	ing co-
operativ	ves are
perform	ned.
All	the
membe	ers get
pooled	prices
after	
paymer	nts for
shop,	
marketi	ing
assista	nt,
other	
expens	es etc.
Under	this
channe	l
average	e price
paid k	by the
consum	ners
was ob	oserved
to	be

Rs.66.76 per	
kg. Of this	
Rs.44.67 was	
the producers	
share but	
after	
deducting for	
his expenses	
of Rs.4.17 per	
kg the net	
margin of	
grower was	
observed to	
be Rs.40.50	
per kg or	
60.66 per cent	
of the	
consumer	
price.	
TABLE: 9.3	
MARGINS AND COSTS	
THROUGH	
DIFFERENT	
MARKETING	
CHANNELS IN SOLAN	

GROWERS
(RS/KG) PARTICULAR S• CHANNEL
I• CHANNEL- II• CHANNEL -III• • 1.
PRICE RECEIVED BY
GROWER• 4 2.96(67.06)• 4 5.00(100.00)• CHANNEL-
I• CHANNEL- II• CHANNEL -III• • 1.
PRICE RECEIVED BY
GROWER• 4 2.96(67.06)• 4 5.00(100.00)•
CHANNEL- II• CHANNEL
-III● ● 1. PRICE RECEIVED
BY GROWER• 4 2.96(67.06)• 4
5.00(100.00)• CHANNEL-
III• • 1. PRICE RECEIVED BY
GROWER• 4 2.96(67.06)• 4 5.00(100.00)•
• 1. PRICE RECEIVED BY
GROWER• 4 2.96(67.06)• 4 5.00(100.00)• 1. PRICE RECEIVED
BY GROWER• 4

2.96(67.06)• 4
5.00(100.00)
5.00(100.00)
42.96(67.06)•
45.00(100.00)
• 44.67(66.91)
••2.
MARKETING
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INCURRED
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GROWER• 3.
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7∙•-
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8• • -
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9.20(61.19)• 4
4.42
(98.71)• 40.50 (60.66)• • 4.
(60.66)• • 4.
MARKETING
COST BY
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OPERATIVE
44.67(66.91)•
• 2.
MARKETING
COSTS
INCURRED
BY
GROWER• 3.
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7 ● ● -
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ATION• 0.11
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OTHERS• 3.0
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• 3.29• • 3.

GROWER• 3 9.20(61.19)• 4 4.42
(98.71)• 40.50 (60.66)• • 4. MARKETING COST BY CO-
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PACKING• 0. 58• 0.58• 0.5 8• • -
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4.42 (98.71)● 40.50 (60.66)● ● 4. MARKETING COST BY CO-
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(98.71)• 40.50
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• - PACKING• 0. 58• 0.58• 0.5 8• • - TRANSPORT
• - PACKING• 0. 58• 0.58• 0.5 8• • - TRANSPORT ATION• 0.11
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HANDLING - • -• 0.50• • - RENT FOR SHOP• -• - • 0.81• • - WAGES FOR	
• -• 0.50• • - RENT FOR SHOP• -• - • 0.81• • - WAGES FOR	
RENT FOR SHOP• -• - • 0.81• • - WAGES FOR	
RENT FOR SHOP• -• - • 0.81• • - WAGES FOR	• -• 0.50• • -
SHOP• -• - • 0.81• • - WAGES FOR	
• 0.81• • - WAGES FOR	
WAGES FOR	
WAGES FOR	• 0.81• • -
LAROOKe -e -	
	LAROOKe -e -

• 0.20• • 5. RETAILERS PURCHASE PRICE• 42.96
• 46.61• • 6. EXPENSES BY RETAILERS•
• - WASTAGE AND SPOILAGE• -
MARKET FEE• - • • 0.43• • -
HANDLING• - • -• 0.50• • - RENT FOR SHOP• -• -
• 0.81• • - WAGES FOR LABOUR• -• - • 0.20• • 5.
RETAILERS PURCHASE PRICE• 42.96
• 46.61• • 6. EXPENSES BY
RETAILERS• - WASTAGE AND SPOILAGE• -
• -• -• • - MARKET FEE• - • • 0.43• • -
HANDLING• - • -• 0.50• • - RENT FOR
SHOP• -• - • 0.81• • - WAGES FOR LABOUR• -• -
● 0.20● ● 5. RETAILERS PURCHASE
PRICE• 42.96 •- • 46.61• • 6. EXPENSES

BY RETAILERS•
MARKET FEE• -
• • 0.43• • - HANDLING• - • -• 0.50• • -
RENT FOR SHOP• -• - • 0.81• • -
WAGES FOR LABOUR• -• -
• 0.20• • 5. RETAILERS PURCHASE PRICE• 42.96
• - • 46.61• • 6. EXPENSES
BY RETAILERS•
MARKET FEE• - • • 0.43• • -
HANDLING• - • -• 0.50• • -
RENT FOR SHOP• -• - • 0.81• • -
WAGES FOR LABOUR• -• - • 0.20• • 5.
RETAILERS PURCHASE
PRICE• 42.96 • - • 46.61• • 6.
EXPENSES BY
RETAILERS• -• • -MARKET FEE• -
• • 0.43• • - HANDLING• - • -• 0.50• • -
RENT FOR SHOP• -• - • 0.81• • -
WAGES FOR LABOUR• -• -
• 0.20• • 5.

RETAILERS
PURCHASE
PRICE• 42.96
FRICE 42.90
• -
• 46.61• • 6.
EXPENSES
BY
RETAILERS •
• -MARKET
FEE• -
• • 0.43• • -
HANDLING• -
• -• 0.50• • -
RENT FOR
SHOP• -• -
• 0.81• • -
WAGES FOR
LABOUR• -• -
• 0.20• • 5.
RETAILERS
PURCHASE
PRICE• 42.96
• -
• 40 01• • 0
• 46.61• • 6.
EXPENSES
BY
RETAILERS •
-MARKET
FEE• -
• • 0.43• • -
HANDLING• -
HANDLING• - • -• 0.50• • -
HANDLING• - • -• 0.50• • - RENT FOR
HANDLING• - • -• 0.50• • -
HANDLING• - • -• 0.50• • - RENT FOR
HANDLING• - • -• 0.50• • - RENT FOR SHOP• -• - • 0.81• • -
HANDLING• - • -• 0.50• • - RENT FOR SHOP• -• - • 0.81• • - WAGES FOR
HANDLING - • -• 0.50• • - RENT FOR SHOP• -• - • 0.81• • - WAGES FOR LABOUR• -• -
HANDLING - - • 0.50• • - RENT FOR SHOP• -• - • 0.81• • - WAGES FOR LABOUR• -• - • 0.20• • 5.
HANDLING - - • 0.50• - RENT FOR SHOP - • - • 0.81• - WAGES FOR LABOUR • -• - • 0.20• • 5. RETAILERS
HANDLING - - • 0.50• - RENT FOR SHOP - • - • 0.81• - WAGES FOR LABOUR • - • - • 0.20• • 5. RETAILERS PURCHASE
HANDLING - - • 0.50• - RENT FOR SHOP - • - • 0.81• - WAGES FOR LABOUR • -• - • 0.20• • 5. RETAILERS
HANDLING - - • 0.50• - RENT FOR SHOP - • - • 0.81• - WAGES FOR LABOUR • - • - • 0.20• • 5. RETAILERS PURCHASE
HANDLING - - • 0.50• • - RENT FOR SHOP• -• - • 0.81• - WAGES FOR LABOUR• -• - • 0.20• • 5. RETAILERS PURCHASE PRICE• 42.96 • -
HANDLING - - • 0.50• - RENT FOR SHOP - • - • 0.81• - WAGES FOR LABOUR • - • - • 0.20• • 5. RETAILERS PURCHASE PRICE • 42.96 • - • 46.61• • 6.
HANDLING• - • -• 0.50• • - RENT FOR SHOP• -• - • 0.81• • - WAGES FOR LABOUR• -• - • 0.20• • 5. RETAILERS PURCHASE PRICE• 42.96 • - • 46.61• • 6. EXPENSES
HANDLING• - • -• 0.50• • - RENT FOR SHOP• -• - • 0.81• • - WAGES FOR LABOUR• -• - • 0.20• • 5. RETAILERS PURCHASE PRICE• 42.96 • - • 46.61• • 6. EXPENSES BY
HANDLING - - • 0.50• • - RENT FOR SHOP• -• - • 0.81• • - WAGES FOR LABOUR• -• - • 0.20• • 5. RETAILERS PURCHASE PRICE• 42.96 • - • 46.61• • 6. EXPENSES BY RETAILERS•
HANDLING - - • 0.50• • - RENT FOR SHOP• -• - • 0.81• • - WAGES FOR LABOUR• -• - • 0.20• • 5. RETAILERS PURCHASE PRICE• 42.96 • - • 46.61• • 6. EXPENSES BY RETAILERS• -• • 0.43• • -
HANDLING - - • 0.50• • - RENT FOR SHOP• -• - • 0.81• • - WAGES FOR LABOUR• -• - • 0.20• • 5. RETAILERS PURCHASE PRICE• 42.96 • - • 46.61• • 6. EXPENSES BY RETAILERS• -• • 0.43• • - HANDLING• -
HANDLING - - • 0.50• • - RENT FOR SHOP• -• - • 0.81• WAGES FOR LABOUR• -• - • 0.20• • 5. RETAILERS PURCHASE PRICE• 42.96 • - • 46.61• • 6. EXPENSES BY RETAILERS• -• 0.43• HANDLING• - • -0.50• • -
HANDLING• - • -• 0.50• • - RENT FOR SHOP• -• - • 0.81• WAGES FOR LABOUR• -• - • 0.20• • 5. RETAILERS PURCHASE PRICE• 42.96 • - • 46.61• • 6. EXPENSES BY RETAILERS• -• 0.43• - HANDLING• - • -0.50• - RENT FOR
HANDLING• - • -• 0.50• • - RENT FOR SHOP• -• - • 0.81• WAGES FOR LABOUR• -• - • 0.20• • 5. RETAILERS PURCHASE PRICE• 42.96 • - • 46.61• • 6. EXPENSES BY RETAILERS• -• 0.43• - HANDLING• - • -0.50• - RENT FOR
HANDLING - - • 0.50• • - RENT FOR SHOP• -• - • 0.81• • - WAGES FOR LABOUR• -• - • 0.20• • 5. RETAILERS PURCHASE PRICE• 42.96 • - • 46.61• • 6. EXPENSES BY RETAILERS• -• 0.43• • - HANDLING• - • -0.50• • - RENT FOR SHOP• -• -
HANDLING• - • -• 0.50• • - RENT FOR SHOP• -• - • 0.81• WAGES FOR LABOUR• -• - • 0.20• • 5. RETAILERS PURCHASE PRICE• 42.96 • - • 46.61• • 6. EXPENSES BY RETAILERS• -• 0.43• - HANDLING• - • -0.50• - RENT FOR

LABOUR• -• -
• 0.20• • 5.
RETAILERS
PURCHASE
PRICE• 42.96
• -
● 46.61● ● 6.
EXPENSES
BY
RETAILERS
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HANDLING• -
• -• 0.50• • -
RENT FOR
SHOP• -• -
• 0.81• • -
WAGES FOR
LABOUR• -• -
• 0.20• • 5.
RETAILERS
PURCHASE
PRICE• 42.96
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- <u>4</u> 0 01 0
• 46.61• • 6.
EXPENSES
BY
RETAILERS •
0.43• • -
HANDLING• -
• -• 0.50• • -
RENT FOR
SHOP• -• -
• 0.81• • -
WAGES FOR
LABOUR• -• -
• 0.20• • 5.
RETAILERS
PURCHASE
PRICE• 42.96
• -
• 46.61• • 6.
EXPENSES
BY
RETAILERS •
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HANDLING• -
• -• 0.50• • -
RENT FOR
SHOP• -• -
• 0.81• • -
WAGES FOR
LABOUR• -• -
• 0.20• • 5.

RETAILERS PURCHASE PRICE• 42.96
• 46.61• • 6. EXPENSES BY RETAILERS•
- HANDLING• -
• -• 0.50• • - RENT FOR SHOP• -• -
• 0.81• • - WAGES FOR
LABOUR• -• - • 0.20• • 5.
RETAILERS PURCHASE
PRICE• 42.96 • -
• 46.61• • 6. EXPENSES BY
RETAILERS• -• -• 0.50• • -
RENT FOR SHOP• -• -
• 0.81• • - WAGES FOR LABOUR• -• -
• 0.20• • 5. RETAILERS
PURCHASE PRICE• 42.96
• - • 46.61• • 6.
EXPENSES BY
RETAILERS• -• 0.50• • -
RENT FOR SHOP• -• - • 0.81• • -
WAGES FOR LABOUR• -• -
• 0.20• • 5. RETAILERS
PURCHASE PRICE• 42.96
• - • 46.61• • 6.
EXPENSES

BY RETAILERS•
0.50• • - RENT FOR
SHOP• -• - • 0.81• • -
WAGES FOR LABOUR• -• -
• 0.20• • 5. RETAILERS
PURCHASE PRICE• 42.96
• - • 46.61• • 6.
EXPENSES BY
RETAILERS• • - RENT FOR
SHOP• -• - • 0.81• • -
WAGES FOR LABOUR• -• -
• 0.20• • 5. RETAILERS
PURCHASE PRICE• 42.96
• - • 46.61• • 6.
EXPENSES BY
RETAILERS• - RENT FOR
SHOP• -• - • 0.81• • -
WAGES FOR LABOUR• -• -
• 0.20• • 5. RETAILERS
PURCHASE
PRICE• 42.96
● 46.61● ● 6. EXPENSES BY
RETAILERS •
-• -• 0.81• • - WAGES FOR
LABOUR• -• - • 0.20• • 5.
RETAILERS PURCHASE
PRICE• 42.96 • -

• 46.61 • 6. EXPENSES BY RETAILERS• -• 0.81• • - WAGES FOR LABOUR• -• - • 0.20• • 5. RETAILERS PURCHASE PRICE• 42.96
• 46.61• • 6. EXPENSES BY RETAILERS• 0.81• WAGES FOR LABOUR• -• - • 0.20• • 5. RETAILERS PURCHASE PRICE• 42.96 • - • 46.61• • 6.
EXPENSES BY RETAILERS• • - WAGES FOR LABOUR• -• - • 0.20• • 5. RETAILERS PURCHASE PRICE• 42.96
• 46.61• • 6. EXPENSES BY RETAILERS• - WAGES FOR LABOUR• -• - • 0.20• • 5. RETAILERS PURCHASE PRICE• 42.96
• 46.61• • 6. EXPENSES BY RETAILERS• -• -• 0.20• • 5.

RETAILERS
PURCHASE
PRICE• 42.96
• -
• 16 61• • 6
• 46.61• • 6.
EXPENSES
BY
RETAILERS •
-• 0.20• • 5.
RETAILERS
PURCHASE
PRICE• 42.96
PRICE 42.96
• -
• 46.61• • 6.
EXPENSES
BY
RETAILERS •
0.20• • 5.
RETAILERS
PURCHASE
PRICE• 42.96
• -
• 46.61• • 6.
EXPENSES
BY
RETAILERS•
• 5.
RETAILERS
PURCHASE
PRICE• 42.96
• -
• 46.61• • 6.
EXPENSES
BY
BY RETAILERS•
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BY RETAILERS•
BY RETAILERS• 5. RETAILERS
BY RETAILERS• 5. RETAILERS PURCHASE
BY RETAILERS• 5. RETAILERS PURCHASE PRICE• 42.96
BY RETAILERS• 5. RETAILERS PURCHASE PRICE• 42.96 •-
BY RETAILERS• 5. RETAILERS PURCHASE PRICE• 42.96 • • 46.61•• 6.
BY RETAILERS• 5. RETAILERS PURCHASE PRICE• 42.96 • • 46.61•• 6. EXPENSES
BY RETAILERS• 5. RETAILERS PURCHASE PRICE• 42.96 • • 46.61•• 6.
BY RETAILERS• 5. RETAILERS PURCHASE PRICE• 42.96 • • 46.61•• 6. EXPENSES
BY RETAILERS• 5. RETAILERS PURCHASE PRICE• 42.96 • • 46.61• • 6. EXPENSES BY RETAILERS•
BY RETAILERS• 5. RETAILERS PURCHASE PRICE• 42.96 •- • 46.61•• 6. EXPENSES BY RETAILERS• 42.96• -
BY RETAILERS• 5. RETAILERS PURCHASE PRICE• 42.96 •- • 46.61•• 6. EXPENSES BY RETAILERS• 42.96•- • 46.61•• 6.
BY RETAILERS• 5. RETAILERS PURCHASE PRICE• 42.96 •- • 46.61• • 6. EXPENSES BY RETAILERS• 42.96• - • 46.61• • 6. EXPENSES
BY RETAILERS• 5. RETAILERS PURCHASE PRICE• 42.96 •- • 46.61• • 6. EXPENSES BY RETAILERS• 42.96• - • 46.61• • 6. EXPENSES BY
BY RETAILERS• 5. RETAILERS PURCHASE PRICE• 42.96 • - • 46.61• • 6. EXPENSES BY RETAILERS• 42.96• - • 46.61• • 6. EXPENSES BY RETAILERS•
BY RETAILERS• 5. RETAILERS PURCHASE PRICE• 42.96 • - • 46.61• • 6. EXPENSES BY RETAILERS• 42.96• - • 46.61• • 6. EXPENSES BY RETAILERS• -• 46.61• • 6.
BY RETAILERS• 5. RETAILERS PURCHASE PRICE• 42.96 • - • 46.61• • 6. EXPENSES BY RETAILERS• 42.96• - • 46.61• • 6. EXPENSES BY RETAILERS•
BY RETAILERS• 5. RETAILERS PURCHASE PRICE• 42.96 •- • 46.61• • 6. EXPENSES BY RETAILERS• 42.96•- • 46.61• • 6. EXPENSES BY RETAILERS• -• 46.61• • 6. EXPENSES
BY RETAILERS• 5. RETAILERS PURCHASE PRICE• 42.96 • - • 46.61• • 6. EXPENSES BY RETAILERS• 42.96• - • 46.61• • 6. EXPENSES BY RETAILERS• -• 46.61• • 6.

46.61●●6. EXPENSES BY
RETAILERS• • 6.
EXPENSES BY
RETAILERS• 6.
EXPENSES BY
RETAILERS• 4.75• -
● 4.75● ● - CARRIAGE●
-• 4.75• • - CARRIAGE•
4.75• • - CARRIAGE•
CARRIAGE
CARRIAGE• 0.20• -
• 0.25• • - LOSSES• 3.9
2• -• 4.30• • - HANDLING• 0
.20• - • 0.20• • -
MARKET FEE• 0.43• •
-• 0.25• • - LOSSES• 3.9 2• -• 4.30• • -
HANDLING• 0 .20• -
• 0.20• • - MARKET
FEE• 0.43• • 0.25• • -
LOSSES• 3.9 2• -• 4.30• • -
HANDLING• 0 .20• -
• 0.20• • - MARKET
FEE• 0.43• • • - LOSSES• 3.9
2• -• 4.30• • - HANDLING• 0
.20• -

• 0.20• • - MARKET FEE• 0.43• •
LOSSES• 3.9 2• -• 4.30• • - HANDLING• 0 .20• -
• 0.20• • - MARKET FEE• 0.43• • 3.92• -
• 4.30• • - HANDLING• 0 .20• -
• 0.20• • - MARKET FEE• 0.43• • -• 4.30• • -
HANDLING• 0 .20• - • 0.20• • -
MARKET FEE• 0.43• • 4.30• • - HANDLING• 0
.20• - • 0.20• • - MARKET
FEE• 0.43• • • - HANDLING• 0
.20• - • 0.20• • - MARKET FEE• 0.43• •
- HANDLING• 0 .20• - • 0.20• • -
MARKET FEE• 0.43• • 0.20• - • 0.20• • -
• 0.20• • - MARKET FEE• 0.43• • -• 0.20• • -
MARKET FEE• 0.43• • 0.20• • -
MARKET FEE• 0.43• • • - MARKET

FEE• 0.43• •
- MARKET
FEE• 0.43• •
0.43••-••7.
RETAILERS
MARGIN• 16.
35• -
• 15.40• • 8.
CONSUMER
PRICE• 64.06
(100.00)• 45.0
0(100.00)• 66.
$0(100.00)^{\circ}$ 00.
76(100.00)••
• -• • 7.
RETAILERS
MARGIN• 16.
35• -
• 15.40• • 8.
CONSUMER
PRICE• 64.06
(100.00) 45.00
(100.00)• 45.0
0(100.00)• 66.
76(100.00)• •
-• • 7.
RETAILERS
MARGIN• 16.
35• -
• 15.40• • 8.
CONSUMER
PRICE• 64.06
(100.00)• 45.0
0(100.00)• 66.
76(100.00)● ●
• 7.
RETAILERS
MARGIN• 16.
35• -
• 15.40• • 8.
CONSUMER
PRICE• 64.06
(100.00)• 45.0
,
Ò(100.00)● 66.
0(100.00)● 66. 76(100.00)● ●
0(100.00)● 66. 76(100.00)● ● 7.
0(100.00)● 66. 76(100.00)● ● 7. RETAILERS
0(100.00)● 66. 76(100.00)● ● 7. RETAILERS MARGIN● 16.
0(100.00)• 66. 76(100.00)• • 7. RETAILERS MARGIN• 16. 35• -
0(100.00)● 66. 76(100.00)● ● 7. RETAILERS MARGIN● 16.
0(100.00)• 66. 76(100.00)• • 7. RETAILERS MARGIN• 16. 35• -
0(100.00)• 66. 76(100.00)• • 7. RETAILERS MARGIN• 16. 35• - • 15.40• • 8. CONSUMER
0(100.00)• 66. 76(100.00)• • 7. RETAILERS MARGIN• 16. 35• - • 15.40• • 8. CONSUMER PRICE• 64.06
0(100.00)• 66. 76(100.00)• • 7. RETAILERS MARGIN• 16. 35• - • 15.40• • 8. CONSUMER PRICE• 64.06 (100.00)• 45.0
0(100.00)• 66. 76(100.00)• • 7. RETAILERS MARGIN• 16. 35• - • 15.40• • 8. CONSUMER PRICE• 64.06

16.35 • - • 15.40 • 8. CONSUMER PRICE• 64.06 (100.00) • 45.0 0(100.00) • 66. 76(100.00) • 6. 76(100.00) • 6. 76(100.00) • 45.0 0(100.00) • 45.0 0(100.00) • 66. 76(100.00) • 60. 76(100.00) • 60.
Note: Figures in parenthesis are percentage from total.
9.6.2 SHIMLA In

Shimla	only
two char	inels
viz. reta	ilers
and direct	ly to
consumer	s
were fo	und.
No marke	eting
through	CO-
operative	or
whole s	ales
was preva	lent.
The de	etails
have b	been
presented	in
Table 9.4.	
Channel	- 1
The ave	rage
price paid	d by
consumer	was
observed	to
be Rs.6	7.03
per kg.	The
grower	
received	an
average	of
Rs.45.83	per
kg and	after
deducting	his
expenses	of
Rs.3.67	per
kg the	net
margin	of
grower	was
64.21	per

cent.	The
expenses	
incurred	by
retailers	were
Rs.5.10	per
kg and	their
margin	of
profit	was
Rs.16.10	per
kg.	
Channel-	II.
Under	this
channel	
average	sale
price	of
mushroor	n
was Rs.4	47.00
per kg an	d net
margin	of
grower	was
98.62	per
cent.	
lt may	be
concluded	b
from	the
above	that
marketing	J
channels	for
mushroor	n for
local	and
Shimla m	arket
are	fairly
efficient,	the
net marg	in of

growers in the
range of 60
per cent. This
is higher as
compared
with apple and
vegetable
marketing
channels
where this
margin is in
the range of
only 40-50 per
cent of
consumers
price. The
length of
marketing
channels is
also shorts as
compared
with other
commodities.
TABLE: 9.4
MARKETING
MARGINS
AND COSTS THROUGH
DIFFERENT
MARKETING
CHANNELS IN SHIMLA
GROWERS
(RS/KG)
PARTICULAR S• CHANNEL

I● CHANNEL- II● ● 1. PRICE
RECEIVED BY
GROWER• 4 5.83(68.37)• 4 7.00(100.00)•
CHANNEL- I• CHANNEL-
II●● 1. PRICE RECEIVED
BY GROWER• 4
5.83(68.37)• 4 7.00(100.00)•
CHANNEL- II••1. PRICE RECEIVED
RECEIVED BY GROWER• 4
5.83(68.37)• 4 7.00(100.00)•
• 1. PRICE RECEIVED
BY GROWER• 4
5.83(68.37)• 4 7.00(100.00)• 1. PRICE
RECEIVED
GROWER• 4 5.83(68.37)• 4
7.00(100.00)• 45.83(68.37)•
47.00(100.00) • • 2.
MARKETING COSTS INCURRED
BY GROWER• 3.
67● 0.65● ● - PACKING● 0.
65• 0.65• • - TRANSPORT
ATION• 0.17 • -• • -
OTHERS• 2.8 5(64.21)• - • • 3. NET
WHOLESALE PRICE• 42.98

• 46.35(98.62)
• • 4. RETAILER
PURCHASE
PRICE
• 45.83• -
••5.
RETAILERS
EXPENSES•
• 2.
MARKETING
COSTS INCURRED
BY
GROWER• 3.
67• 0.65• • -
PACKING• 0.
65• 0.65• • -
TRANSPORT
ATION• 0.17
OTHERS• 2.8 5(64.21)• -
• • 3. NET
WHOLESALE
PRICE• 42.98
• 46.35(98.62)
••4. ´
RETAILER
PURCHASE
PRICE
• 45.83• -
• • 5. RETAILERS
EXPENSES•
2.
MARKETING
COSTS
INCURRED
BY
GROWER• 3.
67• 0.65• • -
PACKING• 0.
65• 0.65• • - TRANSPORT
ATION• 0.17
• -• • -
OTHERS• 2.8
5(64.21)• -
• • 3. NET
WHOLESALE
PRICE• 42.98
• 46.35(98.62)

••4. RETAILER PURCHASE PRICE •45.83•- ••5. RETAILERS EXPENSES• 3.67•0.65•• 0.65••- PACKING•0. 65•0.65•- TRANSPORT ATION•0.17 •-•- OTHERS•2.8 5(64.21)•- •3. NET WHOLESALE PRICE•42.98 •46.35(98.62) ••4. RETAILER PURCHASE PRICE PRICE •45.820
• 45.83• - • • 5.
RETAILERS EXPENSES•
PACKING• 0. 65• 0.65• • - TRANSPORT ATION• 0.17
• -• • - OTHERS• 2.8 5(64.21)• -
• 3. NET WHOLESALE PRICE• 42.98 • 46.35(98.62)
• • 4. RETAILER PURCHASE PRICE • 45.83• -
• • 5. RETAILERS EXPENSES•
- PACKING• 0. 65• 0.65• • - TRANSPORT

ATION• 0.17
OTHERS• 2.8 5(64.21)• - • 3. NET
WHOLESALE PRICE• 42.98 • 46.35(98.62)
• • 4. RETAILER PURCHASE PRICE • 45.83• -
••5. RETAILERS EXPENSES• 0.65•0.65•• 0.65••- TRANSPORT ATION•0.17
• -• • - OTHERS• 2.8 5(64.21)• -
• • 3. NET WHOLESALE PRICE• 42.98 • 46.35(98.62)
• • 4. RETAILER PURCHASE PRICE • 45.83• -
••5. RETAILERS EXPENSES•
TRANSPORT ATION• 0.17
OTHERS• 2.8 5(64.21)• - • • 3. NET
WHOLESALE PRICE• 42.98 • 46.35(98.62) • • 4.
RETAILER PURCHASE PRICE • 45.83• - • • 5.
RETAILERS EXPENSES•

- TRANSPORT ATION• 0.17 •-••- OTHERS• 2.8 5(64.21)•- ••3. NET WHOLESALE PRICE• 42.98 • 46.35(98.62) •• 4.
RETAILER PURCHASE PRICE • 45.83• -
••5. RETAILERS EXPENSES• 0.17•-•- OTHERS•2.8 5(64.21)•-
• 3. NET WHOLESALE PRICE• 42.98 • 46.35(98.62) • • 4.
RETAILER PURCHASE PRICE • 45.83• - • • 5.
RETAILERS EXPENSES• -••- OTHERS• 2.8 5(64.21)•-
• 3. NET WHOLESALE PRICE• 42.98 • 46.35(98.62) • 4.
RETAILER PURCHASE PRICE • 45.83• - • • 5.
RETAILERS EXPENSES• •- OTHERS• 2.8 5(64.21)•- •• 3. NET WHOLESALE

PRICE• 42.98 • 46.35(98.62) • • 4.
RETAILER PURCHASE PRICE • 45.83• - • • 5.
RETAILERS EXPENSES•
OTHERS• 2.8 5(64.21)• -
••3. NET WHOLESALE PRICE•42.98 •46.35(98.62) ••4.
RETAILER PURCHASE PRICE • 45.83• -
••5. RETAILERS EXPENSES• 2.85(64.21)•- ••3. NET
WHOLESALE PRICE• 42.98 • 46.35(98.62) • • 4.
RETAILER PURCHASE PRICE • 45.83• -
• • 5. RETAILERS EXPENSES•
-• • 3. NET WHOLESALE PRICE• 42.98 • 46.35(98.62) • • 4.
RETAILER PURCHASE PRICE • 45.83• -
••5. RETAILERS EXPENSES• •3. NET WHOLESALE PRICE•42.98

• 46.35(98.62) • • 4.
RETAILER PURCHASE PRICE • 45.83• -
••5. RETAILERS EXPENSES• 3. NET WHOLESALE PRICE•42.98 •46.35(98.62)
• • 4. RETAILER PURCHASE PRICE • 45.83• -
••5. RETAILERS EXPENSES• 42.98•46.35(98.62)••4. RETAILER PURCHASE PRICE •45.83•-
• • 5. RETAILERS EXPENSES• 46.35(98.62)• • 4. RETAILER PURCHASE PRICE • 45.83• - • • 5.
RETAILERS EXPENSES• 4. RETAILER PURCHASE PRICE • 45.83• -
• • 5. RETAILERS EXPENSES• 45.83• -• • 5. RETAILERS EXPENSES• -• • 5.
RETAILERS EXPENSES• • 5.

RETAILERS EXPENSES• 5.
RETAILERS EXPENSES•
5.10• -• • - CARRIAGE• -• • -
CARRIAGE•
CARRIAGE• -
CARRIAGE• 0.25• -• • - LOSSES• 4.2
2● -● ● - HANDLING● 0
.20● -● ● - MARKET FEE● 0.43● -
••6.
RETAILER'S MARGIN • 16.10• -
••7. CONSUMER S
PRICE• 67.03 (100.00)• 47.0 0(100.00)• •
LOSSES• 4.2 2• -• • -
HANDLING• 0 .20• -• • -
MARKET FEE● 0.43● -
••6. RETAILER'S MARGIN •16.10•- ••7.
CONSUMER S
PRICE• 67.03 (100.00)• 47.0 0(100.00)• •
• - LOSSES• 4.2
2• -• • - HANDLING• 0
.20● -● ● - MARKET

FEE• 0.43• -
••6. RETAILER'S MARGIN •16.10•- ••7.
CONSUMER S
PRICE• 67.03 (100.00)• 47.0 0(100.00)• •
LOSSES• 4.2 2• -• • -
HANDLING• 0 .20• -• • - MARKET
FEE• 0.43• -
• • 6. RETAILER'S MARGIN • 16.10• -
••7. CONSUMER S
PRICE• 67.03 (100.00)• 47.0 0(100.00)• •
4.22● -● - HANDLING● 0 .20● -● -
.200 -00 - MARKET FEE• 0.43• - • • 6.
RETAILER'S MARGIN • 16.10• - • • 7.
CONSUMER S
PRICE• 67.03 (100.00)• 47.0 0(100.00)• •
HANDLING• 0 .20• -• • -
.200 -00 - MARKET FEE• 0.43• - • • 6.
RETAILER'S MARGIN • 16.10• -
••7.

CONSUMER
S PRICE• 67.03 (100.00)• 47.0 0(100.00)• •
HANDLING• 0 .20• -• • - MARKET FEE• 0.43• -
••6. RETAILER'S MARGIN •16.10•- ••7.
CONSUMER S
PRICE• 67.03 (100.00)• 47.0 0(100.00)• •
HANDLING• 0 .20• -• • -
MARKET FEE• 0.43• -
••6. RETAILER'S MARGIN •16.10•- ••7.
CONSUMER
S PRICE• 67.03 (100.00)• 47.0 0(100.00)• •
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••6. RETAILER'S MARGIN •16.10•-
• • 7. CONSUMER
S PRICE• 67.03 (100.00)• 47.0 0(100.00)• •
MARKET FEE• 0.43• -
●●6. RETAILER'S

MARGIN • 16.10• - • • 7.
CONSUMER S PRICE• 67.03 (100.00)• 47.0 0(100.00)• • - MARKET
FEE• 0.43• - • • 6.
RETAILER'S MARGIN • 16.10• - • • 7.
CONSUMER S
PRICE• 67.03 (100.00)• 47.0 0(100.00)• • - MARKET FEE• 0.43• - • • 6.
RETAILER'S MARGIN • 16.10• - • • 7.
CONSUMER S
PRICE• 67.03 (100.00)• 47.0 0(100.00)• • 0.43• -• • 6. RETAILER'S MARGIN • 16.10• -
••7. CONSUMER S
PRICE• 67.03 (100.00)• 47.0 0(100.00)• • -• • 6.
• 16.10• - • 7.
CONSUMER S
PRICE• 67.03 (100.00)• 47.0 0(100.00)• • • 6.

RETAILER'S
MARGIN • 16.10• -
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(100.00)• 47.0
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CONSUMER
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PRICE• 67.03
(100.00)● 47.0 0(100.00)● ●
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S BBIOE 07.00
PRICE• 67.03 (100.00)• 47.0
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CONSUMER S
PRICE• 67.03
(100.00)• 47.0
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67.03(100.00)
• 47.00(100.0 0)● ●
47.00(100.00)
••
Note: The
figures in parenthesis

are
percentages
from the total.
CHAPTER -X
PROBLEMS
FACED BY MUSHROOM
FARMERS
During the
course of
investigation it
was observed
that there
were 876
registered
mushroom
farmers
spread in five
district of the
state. But at
the time of
data collection
only 112 were
actually
cultivating
mushrooms,
the rest had
either
temporarily or
permanently
given up the
vocation.
Such a

scenario could
emerge only
because the
vocation is
riddled with
many
problems.
Such
problems
were
envisaged on
two stages
viz. production
stage and
marketing
stage. Thus,
the problems
related with
these aspects
were listed
and analysed
with the help
of multiple
response
analysis. In
this analysis it
was felt that
responses of
those farmers
who had
currently
given up the
operations
carried more
weight

because they
faced these to
such an
extent that
they were
force to give
up the
vocation
temporarily or
permanently.
Thus, such
farmers who
were
registered
mushroom
cultivators but
presently not
growing
mushrooms
were also
included in
analysis of
problems.
This way the
sample size
was increased
to 60 in Solan
and 55 in
district Shimla
from 40 and
30
respectively in
all other parts
of the study.

10.1
PRODUCTIO
N STAGE
PROBLEMS
The results of
analysis have
been
presented in
Table 10.1
and elicited
below.
Delow.
10.1.1
PRODUCTIO
N
About 49
percent
farmers felt
that they
lacked up to
date
knowledge of
production
techniques
and any
doubts can be
cleared only
by visiting
Solan which is
not always
possible. This
problem was
reported by
larger

percentage in Solan as the farmers there have understood the importance of the activity.

10.1.2

CAPITAL

The lack of capital is a big hurdle in undertaking the activity further and increasing the of scale operation. Infect, this is most important problem, more that 71 per cent farmers reporting it at overall level. The farmers of Solan being more progressive were observed to be managing

the problem more effectively and hence was not reported by as many farmers as in Shimla where 90 per cent farmers faced problems on this account.

10.1.3 LABOUR

The cultivation of mushrooms being highly scientific endeavour, requires specialised labour for the purpose. About 31 per cent farmers reported that it is very difficult to find required labour force conversant with the The activity.

problem was
observed to
be more acute
in Shimla
where more
than 63 per
cent farmers
faced the
problem. On
the other
hand this
problem was
hardly faced
in Solan, only
7.50 per cent
farmers
reporting it.
The main
reason for this
scenario is
that the
activity has
gained a firm
footing in
district Solan
and is more
wide spread.
This has
helped in
creation of
specialised
and trained
labour force
required for
the purpose.

10.1.4 INPUTS

inputs The required for mushroom cultivation like spawn have to prepared by employing proper scientific techniques therefore and easily not available except from National Research Centre for Mushrooms, Solan and a private few dealers. А few sources of critical inputs, many times, create problems of their availability, 36 per cent farmers reporting this problem.

However, the
problem is not
as acute in
Solan where
40 per cent
persons faced
it as in Shimla
where about
83 per cent
encountered
the
unavailability
of inputs.
Again the
reason for
higher
prevalence of
problem in
Shimla
appears to be
that such
inputs are
available in
Solan itself
ensuring
better
availability
where as the
farmers of
Shimla have
to visit or
contact at
Solan for
supply of
inputs,

	_
resulting in	
present	
situation.	
10.1.5	
CREDIT	
The	
mushroom	
cultivation	
being highly	
capital	
intensive	
venture,	
makes	
provision of	
credit an	
important	
issue.	
Although the	
banks have a	
provision of	
credit for this	
activity and	
NABARD has	
refinance	
scheme for	
commercial	
banks for	
loans granted	
for this	
activity, the	
farmers	
usually face	
many	
difficulties in	

obtaining
credit for
either taking
up this activity
or increasing
the scale of
operation.
The long
procedures
and difficult
requirements
are reported
to be the main
cause. About
53 per cent
farmers at
overall level
faced
problems in
obtaining
credit for
mushroom
cultivation.
The
percentage of
such farmers
was 30 in
Solan and 83
in Shimla
districts.
10.1.6
OTHERS
There are
various other

miscellaneous		
problem being		
faced by the		
mushroom		
cultivators in		
its production.		
The most		
important		
among these		
is the higher		
electricity		
charges. The		
State		
Electricity		
Board		
charges the		
mushroom		
farmers at		
commercial		
rates which		
are higher		
than domestic		
charges.		
Seventy		
percent		
farmers		
reported that		
the electricity		
consumed for		
the activity		
should be		
charged at		
domestic		
rates rather		
than		

commercial
rates.
10.2
MARKETING
STAGE
PROBLEMS
The results of
analysis
regarding
problems
faced during
marketing of
mushrooms
have been
presented in
Table 10.2
and described
below.
10.2.1 LOW
VOLUME
Majority of the
mushroom
farmers are
small and as a
result have
low volume of
production.
The marketing
of small
quantities
increases the
per unit cost
of marketing

resultii			
lower			
	This problems		
as rep	orteo	d by	
about	61	per	
cent	farm	ners	
at overall level			
and	dis	trict	
wise			
percer	ntage)	
was	53	in	
Solan	and	73	
in	Shir	nla.	
Thoug	h,	in	
both		the	
district	S	the	
farmer	S	are	
largely	,		
conce	ntrat	ed	
in	villa	ges	
near	to	the	
towns,		in	
Shimla	a	the	
distan	ces		
analog	jies		
resulti	ng	in	
above			
situatio	on.		
10.2.2	F	FAR	
AWAY	,		
MARK	ETS	5	
For		the	
produc	cers	of	
both		the	

districts,		
Shimla city is		
the main		
consumption		
center. The		
demand in		
Shimla is		
continuously		
picking up.		
As such		
marketing is		
not much of a		
problem.		
However, the		
large		
producers		
who market		
their produce		
in Chandigarh		
or Delhi have		
complaints		
regarding		
these markets		
being far		
away		
especially		
because the		
produce is		
highly		
perishable		
and its		
marketing in		
above two		
cities		
especially		

during
summer
months is
problematic.
Only about 16
per cent
farmers at
overall level
reported this
problem.
TABLE: 10.1 PROBLEMS
FACED BY
MUSHROOM
FARMERS DURING
PRODUCTION STAGE.
(MULTIPLE RESPONSE %)
PROBLEMS• C
ATEGORY•••

CATEGORY •
• • SMALL• ME
DIUM• LARGE•
• SMALL• MEDI
UM• LARGE• O
VERALL•• SOL
AN• • 1. LACK
OF
KNOWLEDGE
OF
PROD.TECHNIQ
UE • 91.67• 38.4
6• 33.33• 52.50•
SMALL [®] MEDIU
M• LARGE• OV
ERALL. • SOLA
ENALL
N• • 1. LACK OF
KNOWLEDGE
OF
•••
PROD.TECHNIQ
UE • 91.67• 38.4
6• 33.33• 52.50•
MEDIUM• LARG
E OVERALL •
LARGE• OVERA
LL•• SOLAN••
OVERALL. • SO
LAN• • 1. LACK
OF
KNOWLEDGE
OF
PROD.TECHNIQ
UE • 91.67• 38.4
6• 33.33• 52.50•
• SOLAN• • 1.
LACK OF
KNOWLEDGE
OF
PROD.TECHNIQ
UE • 91.67• 38.4
6• 33.33• 52.50•
SOLAN• • 1.
LACK OF
KNOWLEDGE
OF
PROD.TECHNIQ
UE • 91.67• 38.4
6• 33.33• 52.50•
• 1. LACK OF
KNOWLEDGE
OF
PROD.TECHNIQ
UE • 91.67• 38.4
6• 33.33• 52.50•
1. LACK OF
KNOWLEDGE
OF
PROD.TECHNIQ
UE • 91.67• 38.4
6• 33.33• 52.50•
91.67• 38.46• 33
.33• 52.50• • 2.

LACK OF CAPITAL • 58.33
CAPITAL® 58.33
• 69.23• 46.67• 5
7.50• • 3. LACK
OF
-
LABOUR• 16.67
• -
• 06.67• 7.50• •
38.46• 33.33• 52
.50• • 2. LACK
OF
-
CAPITAL • 58.33
• 69.23• 46.67• 5
• 09.23• 40.07• 3
7.50• • 3. LACK
OF
LABOUR• 16.67
• -
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. LACK OF
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7.50• • 3. LACK OF LABOUR• 16.67 •-
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8• 50.00• 43.33• 1. LACK OF KNOWLEDGE OF PROD.TECHNIQ UE• 50.00• 38.8 8• 50.00• 43.33• 50.00• 43.33• 2. LACK OF CAPITAL• 70.00 • 100.00• 100.00 • 90.00• 3. LACK OF LABOUR• 60.00 • 61.11• 100.00• 38.88• 50.00• 43
8• 50.00• 43.33• 1. LACK OF KNOWLEDGE OF PROD.TECHNIQ UE• 50.00• 38.8 8• 50.00• 43.33• 50.00• 38.88• 50 .00• 43.33• 2. LACK OF CAPITAL• 70.00 • 100.00• 100.00 • 90.00• 3. LACK OF LABOUR• 60.00 • 61.11• 100.00• 38.88• 50.00• 43 .33• 2. LACK
8• 50.00• 43.33• 1. LACK OF KNOWLEDGE OF PROD.TECHNIQ UE• 50.00• 38.8 8• 50.00• 43.33• 50.00• 38.88• 50 .00• 43.33• 2. LACK OF CAPITAL• 70.00 • 100.00• 100.00 • 90.00• 3. LACK OF LABOUR• 60.00 • 61.11• 100.00• 38.88• 50.00• 43 .33• 2. LACK OF
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8• 50.00• 43.33• 1. LACK OF KNOWLEDGE OF PROD.TECHNIQ UE• 50.00• 38.8 8• 50.00• 43.33• 50.00• 38.88• 50 .00• 43.33• 2. LACK OF CAPITAL• 70.00 • 100.00• 100.00 • 90.00• 3. LACK OF LABOUR• 60.00 • 61.11• 100.00• 38.88• 50.00• 43 .33• 2. LACK OF CAPITAL• 70.00 • 100.00• 100.00
8• 50.00• 43.33• 1. LACK OF KNOWLEDGE OF PROD.TECHNIQ UE• 50.00• 38.8 8• 50.00• 43.33• 50.00• 38.88• 50 .00• 43.33• 2. LACK OF CAPITAL• 70.00 • 100.00• 100.00 • 90.00• 3. LACK OF LABOUR• 60.00 • 61.11• 100.00• 38.88• 50.00• 43 .33• 2. LACK OF CAPITAL• 70.00 • 100.00• 100.00
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8• 50.00• 43.33• 1. LACK OF KNOWLEDGE OF PROD.TECHNIQ UE• 50.00• 38.8 8• 50.00• 43.33• 50.00• 38.88• 50 .00• 43.33• 2. LACK OF CAPITAL• 70.00 • 100.00• 100.00 • 90.00• 3. LACK OF LABOUR• 60.00 • 61.11• 100.00• 38.88• 50.00• 43 .33• 2. LACK OF CAPITAL• 70.00 • 100.00• 100.00 • 90.00• 3. LACK OF
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8• 50.00• 43.33• 1. LACK OF KNOWLEDGE OF PROD.TECHNIQ UE• 50.00• 38.8 8• 50.00• 43.33• 50.00• 38.88• 50 .00• 43.33• 2. LACK OF CAPITAL• 70.00 • 100.00• 100.00 • 90.00• 3. LACK OF LABOUR• 60.00 • 61.11• 100.00• 33.9• 2. LACK OF CAPITAL• 70.00 • 100.00• 100.00 • 90.00• 3. LACK OF LABOUR• 60.00 • 100.00• 100.00 • 90.00• 3. LACK OF LABOUR• 60.00 • 61.11• 100.00 • 90.00• 3. LACK OF LABOUR• 60.00 • 61.11• 100.00 • 50.00• 43.33• 2
8• 50.00• 43.33• 1. LACK OF KNOWLEDGE OF PROD.TECHNIQ UE• 50.00• 38.8 8• 50.00• 43.33• 50.00• 38.88• 50 .00• 43.33• 2. LACK OF CAPITAL• 70.00 • 100.00• 100.00 • 90.00• 3. LACK OF LABOUR• 60.00 • 61.11• 100.00• 33.9• 2. LACK OF CAPITAL• 70.00 • 100.00• 100.00 • 90.00• 3. LACK OF LABOUR• 60.00 • 100.00• 100.00 • 90.00• 3. LACK OF LABOUR• 60.00 • 61.11• 100.00 • 90.00• 3. LACK OF LABOUR• 60.00 • 61.11• 100.00 • 50.00• 43.33• 2
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100.00• 90.00• • 90.00• • 3. LACK OF LABOUR• 60.00 • 61.11• 100.00• • 3. LACK OF LABOUR• 60.00 • 61.11• 100.00• 3. LACK OF LABOUR• 60.00 • 61.11• 100.00• 60.00• 61.11• 10 0.00• 63.33• • 4.
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100.00• 90.00• • 90.00• • 3. LACK OF LABOUR• 60.00 • 61.11• 100.00• • 3. LACK OF LABOUR• 60.00 • 61.11• 100.00• 3. LACK OF LABOUR• 60.00 • 61.11• 100.00• 60.00• 61.11• 10 0.00• 63.33• • 4. UNAVAILABILIT Y OF INPUTS• 60.00•
100.00• 90.00• • 90.00• • 3. LACK OF LABOUR• 60.00 • 61.11• 100.00• • 3. LACK OF LABOUR• 60.00 • 61.11• 100.00• 61.11• 100.00• 60.00• 61.11• 10 0.00• 63.33• • 4. UNAVAILABILIT Y OF INPUTS• 60.00• 61.11• 100.00• 6
100.00• 90.00• • 90.00• • 3. LACK OF LABOUR• 60.00 • 61.11• 100.00• • 3. LACK OF LABOUR• 60.00 • 61.11• 100.00• 3. LACK OF LABOUR• 60.00 • 61.11• 100.00• 60.00• 61.11• 10 0.00• 63.33• • 4. UNAVAILABILIT Y OF INPUTS• 60.00• 61.11• 100.00• 6 3.33• • 4.
100.00• 90.00• • 90.00• • 3. LACK OF LABOUR• 60.00 • 61.11• 100.00• • 3. LACK OF LABOUR• 60.00 • 61.11• 100.00• 3. LACK OF LABOUR• 60.00 • 61.11• 100.00• 60.00• 61.11• 10 0.00• 63.33• • 4. UNAVAILABILIT Y OF INPUTS• 60.00• 61.11• 100.00• 6 3.33• • 4. UNAVAILABILIT
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• 87.09• 52.94• 7
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•
10.2.3
LOW LOCAL
DEMAND
The local
demand here
means the
demand by
the
households
located within
the village
itself where

the form is
the farm is
situated.
about 36 per
cent farmers
thought that it
would have
been ideal if
their entire
produce is
consumed
within the
village and
they would be
saved from
marketing
problems and
its costs. In
the process
they were
ready to
forego higher
profits and
contend with
lower returns.
10.2.4
PERISHABILI
ТҮ
As described
earlier the
highly
perishable
nature of
mushrooms

poses
problems
during
marketing and
the time
available is
quite low.
This is
especially true
in absence of
processing
which
increases the
shelf life. This
problem was
reported by
about 56 per
cent farmers
and was more
pronounced in
Solan mainly
because this
district being
located at
lower
elevation, the
temperature is
higher as
compared
with Shimla.
The higher
atmospheric
temperature
further lowers
the shelf life

as a result larger number of farmers face problems on this account. **10.2.5 LOW PRICES** Although not many farmers complained of

prices, low about 24 per cent farmers at overall level felt that prices are low in comparison with other fresh vegetables and these are also not increasing in

other

tune

vegetables.

with

10.2.6 MARKETING COST

About 53 per cent farmers at overall level

felt that
marketing
cost of
mushrooms
was quite
high. The
problem was
more acute in
Shimla, 70
percent
farmers
complaining
on this
account as
compared
with 40 per
cent farmers
in Solan.
10.2.7
MARKET
INFORMATIO
Ν
Those
farmers who
either were
marketing the
produce in
distant
markets or
were planning
to do so
to do so complained

these markets was available. In absence of this it was impossible to full tap potential and comparative advantage of these markets. About 29 per cent farmers at overall level had complain in this respect.

10.3 CONCLUSIO

NS

It may be concluded from the above discussion that the production of mushrooms is riddled with many problems. Some of these e.g. lack of knowledge

techniques
will go on
reducing with
time as the
spread of the
activity further
widens.
Same is true
for lack of
specialised
labour. More
and more
persons are
being trained
and hence the
problems will
go on
reducing.
Same is true
for availability
of inputs as
more and
more persons
are
undertaking
the supply of
inputs.
However, the
govt. will
have to look
into supply of
credit by
further
streamlining
the

MEDIUM• LARG E• OVERALL• LARGE• OVERA LL• SOLAN• OVERALL• SO LAN• 1. LOW VOLUME OF PRODUCTION• SOLAN• 1. LOW VOLUME OF PRODUCTION• SOLAN• 1. LOW VOLUME OF PRODUCTION• 1. LOW VOLUME OF PRODUCTION• 1. LOW VOLUME OF PRODUCTION• 66.67• 61.53• 33 .33• 52.50• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 61.53• 33.33• 52 .50• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 61.53• 33.33• 52 .50• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• 3. LOW DEMAND• 25.00 • 7.69• 6.67• 12. 50• 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• 3. LOW LOCAL DEMAND• 25.00 • 7.69• 6.67• 12.	
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PRODUCTION• • 1. LOW VOLUME OF PRODUCTION• 1. LOW VOLUME OF PRODUCTION• 66.67• 61.53• 33 .33• 52.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 61.53• 33.33• 52 .50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 33.33• 52.50• • 2 . FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. 50• • 3. LOW LOCAL DEMAND• 25.00	LOW VOLUME
• 1. LOW VOLUME OF PRODUCTION• 1. LOW VOLUME OF PRODUCTION• 66.67• 61.53• 33 .33• 52.50• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 61.53• 33.33• 52 .50• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 33.33• 52.50• 2 .FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. 50• 3. LOW LOCAL DEMAND• 25.00	OF
• 1. LOW VOLUME OF PRODUCTION• 1. LOW VOLUME OF PRODUCTION• 66.67• 61.53• 33 .33• 52.50• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 61.53• 33.33• 52 .50• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 33.33• 52.50• 2 .FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. 50• 3. LOW LOCAL DEMAND• 25.00	PRODUCTION
VOLUME OF PRODUCTION• 1. LOW VOLUME OF PRODUCTION• 66.67• 61.53• 33 .33• 52.50• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 61.53• 33.33• 52 .50• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 33.33• 52.50• 2 .FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. 50• 3. LOW LOCAL DEMAND• 25.00	
PRODUCTION• 1. LOW VOLUME OF PRODUCTION• 66.67• 61.53• 33 .33• 52.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 61.53• 33.33• 52 .50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 33.33• 52.50• • 2 . FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. 50• • 3. LOW LOCAL DEMAND• 25.00	
1. LOW VOLUME OF PRODUCTION• 66.67• 61.53• 33 .33• 52.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 61.53• 33.33• 52 .50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 33.33• 52.50• • 2 . FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. 50• 3. LOW LOCAL DEMAND• 25.00• 2.50• 3. LOW LOCAL DEMAND• 25.00	
VOLUME OF PRODUCTION• 66.67• 61.53• 33 .33• 52.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 61.53• 33.33• 52 .50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 33.33• 52.50• • 2 . FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. 50• 3. LOW LOCAL DEMAND• 25.00 0• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• • 3. LOW LOCAL DEMAND• 25.00	
PRODUCTION 66.67° 61.53° 33 .33° 52.50° • 2. FAR AWAY MARKETS° 25.0 0° 23.07° 20.00° 61.53° 33.33° 52 .50° • 2. FAR AWAY MARKETS° 25.0 0° 23.07° 20.00° 33.33° 52.50° • 2 . FAR AWAY MARKETS° 25.0 0° 23.07° 20.00° 52.50° • 2. FAR AWAY MARKETS° 25.0 0° 23.07° 20.00° • 2. FAR AWAY MARKETS° 25.0 0° 23.07° 20.00° • 2. FAR AWAY MARKETS° 25.0 0° 23.07° 20.00° • 2. FAR AWAY MARKETS° 25.0 0° 23.07° 20.00° 2. 50° 4. HIGHLY PERISHABLE° 9 1.67° 53.84° 60. 00° 67.50° • 5. LOW PRICES° 41.67° 23.07° 20.00° 22 .50° • 3. LOW LOCAL DEMAND° 25.00	-
66.67• 61.53• 33 .33• 52.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 61.53• 33.33• 52 .50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 33.33• 52.50• • 2 . FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. 50• 23.07• 20.00• 25.00• 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• • 3. LOW LOCAL DEMAND• 25.00	VOLUME OF
66.67• 61.53• 33 .33• 52.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 61.53• 33.33• 52 .50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 33.33• 52.50• • 2 . FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. 50• 23.07• 20.00• 25.00• 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• • 3. LOW LOCAL DEMAND• 25.00	PRODUCTION
.33• 52.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 61.53• 33.33• 52 .50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 33.33• 52.50• • 2 . FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. 50• 2.50• 3. LOW LOCAL DEMAND• 25.00 • 7.69• 6.67• 12. 50• 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22. 50• • 3. LOW LOCAL DEMAND• 25.00	
FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 61.53• 33.33• 52 .50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 33.33• 52.50• • 2 .FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. 50• • 3. LOW LOCAL DEMAND• 25.00 • 7.69• 6.67• 12. 50• • 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22. 50• • 3. LOW LOCAL DEMAND• 25.00	
MARKETS• 25.0 0• 23.07• 20.00• 61.53• 33.33• 52 .50• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 33.33• 52.50• 2 .FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. 50• 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• 5. LOW PRICES• 41.67• 23.07• 20.00• 22. 50• 3. LOW LOCAL DEMAND• 25.00	
0• 23.07• 20.00• 61.53• 33.33• 52 .50• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 33.33• 52.50• 2 .FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 25.00• 23.07• 20 .00• 22.50• 3. LOW LOCAL DEMAND• 25.00 • 7.69• 6.67• 12. 50• 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• 5. LOW PRICES• 41.67• 23.07• 20.00• 22. 50• 3. LOW LOCAL DEMAND• 25.00	FAR AWAY
61.53• 33.33• 52 .50• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 33.33• 52.50• 2 .FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2.500• 23.07• 20 .00• 22.50• 3. LOW LOCAL DEMAND• 25.00 • 7.69• 6.67• 12. 50• 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• 5. LOW PRICES• 41.67• 23.07• 20.00• 22. 50• • 3. LOW LOCAL DEMAND• 25.00	MARKETS 25.0
.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 33.33• 52.50• • 2 .FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 50• • 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22. 50• • 3. LOW LOCAL DEMAND• 25.00	
.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 33.33• 52.50• • 2 .FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 50• • 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22. 50• • 3. LOW LOCAL DEMAND• 25.00	61.53• 33.33• 52
AWAY MARKETS• 25.0 0• 23.07• 20.00• 33.33• 52.50• • 2 .FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• • 3. LOW LOCAL DEMAND• 25.00	
MARKETS• 25.0 0• 23.07• 20.00• 33.33• 52.50• • 2 . FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22. 50• • 3. LOW LOCAL DEMAND• 25.00	
0• 23.07• 20.00• 33.33• 52.50• • 2 .FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 25.00• 23.07• 20 .00• 22.50• • 3. LOW LOCAL DEMAND• 25.00 • 7.69• 6.67• 12. 50• • 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• • 3. LOW LOCAL DEMAND• 25.00	
33.33• 52.50• • 2 .FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 7.69• 6.67• 12. 50• • 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22. 50• • 3. LOW LOCAL DEMAND• 25.00	WIARKE 1 5 23.0
. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 52.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• • 3. LOW LOCAL DEMAND• 25.00	
MARKETS• 25.0 0• 23.07• 20.00• 52.50• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 25.00• 23.07• 20 .00• 22.50• 3. LOW LOCAL DEMAND• 25.00 0• 67.50• 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• 3. LOW LOCAL DEMAND• 25.00	
0• 23.07• 20.00• 52.50• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 50• 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• • 3. LOW LOCAL DEMAND• 25.00	. FAR AWAY
0• 23.07• 20.00• 52.50• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 25.00• 23.07• 20.00• 50• 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• • 3. LOW LOCAL DEMAND• 25.00	MARKETS • 25.0
52.50• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 25.00• 23.07• 20 .00• 22.50• • 3. LOW LOCAL DEMAND• 25.00 • 7.69• 6.67• 12. 50• • 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• • 3. LOW LOCAL DEMAND• 25.00	0• 23.07• 20.00•
AWAY MARKETS• 25.0 0• 23.07• 20.00• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 25.00• 23.07• 20 .00• 22.50• • 3. LOW LOCAL DEMAND• 25.00 • 7.69• 6.67• 12. 50• • 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• • 3. LOW LOCAL DEMAND• 25.00	
MARKETS• 25.0 0• 23.07• 20.00• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 25.00• 23.07• 20 .00• 22.50• • 3. LOW LOCAL DEMAND• 25.00 • 7.69• 6.67• 12. 50• • 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• • 3. LOW LOCAL DEMAND• 25.00	
0• 23.07• 20.00• • 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 25.00• 23.07• 20 .00• 22.50• • 3. LOW LOCAL DEMAND• 25.00 • 7.69• 6.67• 12. 50• • 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• • 3. LOW LOCAL DEMAND• 25.00	
• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 25.00• 23.07• 20 .00• 22.50• • 3. LOW LOCAL DEMAND• 25.00 • 7.69• 6.67• 12. 50• • 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• • 3. LOW LOCAL DEMAND• 25.00	
MARKETS• 25.0 0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 25.00• 23.07• 20 .00• 22.50• • 3. LOW LOCAL DEMAND• 25.00 • 7.69• 6.67• 12. 50• • 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• • 3. LOW LOCAL DEMAND• 25.00	
0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 25.00• 23.07• 20 .00• 22.50• • 3. LOW LOCAL DEMAND• 25.00 • 7.69• 6.67• 12. 50• • 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• • 3. LOW LOCAL DEMAND• 25.00	
0• 23.07• 20.00• 2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 25.00• 23.07• 20 .00• 22.50• • 3. LOW LOCAL DEMAND• 25.00 • 7.69• 6.67• 12. 50• • 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• • 3. LOW LOCAL DEMAND• 25.00	MARKETS • 25.0
2. FAR AWAY MARKETS• 25.0 0• 23.07• 20.00• 25.00• 23.07• 20 .00• 22.50• • 3. LOW LOCAL DEMAND• 25.00 • 7.69• 6.67• 12. 50• • 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• • 3. LOW LOCAL DEMAND• 25.00	
MARKETS• 25.0 0• 23.07• 20.00• 25.00• 23.07• 20 .00• 22.50• • 3. LOW LOCAL DEMAND• 25.00 • 7.69• 6.67• 12. 50• • 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• • 3. LOW LOCAL DEMAND• 25.00	2 FAR AWAY
0• 23.07• 20.00• 25.00• 23.07• 20 .00• 22.50• • 3. LOW LOCAL DEMAND• 25.00 • 7.69• 6.67• 12. 50• • 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• • 3. LOW LOCAL DEMAND• 25.00	
25.00• 23.07• 20 .00• 22.50• • 3. LOW LOCAL DEMAND• 25.00 • 7.69• 6.67• 12. 50• • 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• • 3. LOW LOCAL DEMAND• 25.00	
.00• 22.50• • 3. LOW LOCAL DEMAND• 25.00 • 7.69• 6.67• 12. 50• • 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• • 3. LOW LOCAL DEMAND• 25.00	
LOW LOCAL DEMAND• 25.00 • 7.69• 6.67• 12. 50• • 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• • 3. LOW LOCAL DEMAND• 25.00	
DEMAND• 25.00 • 7.69• 6.67• 12. 50• • 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• • 3. LOW LOCAL DEMAND• 25.00	
DEMAND• 25.00 • 7.69• 6.67• 12. 50• • 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• • 3. LOW LOCAL DEMAND• 25.00	LOW LOCAL
• 7.69• 6.67• 12. 50• • 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• • 3. LOW LOCAL DEMAND• 25.00	DEMAND • 25.00
50• • 4. HIGHLY PERISHABLE• 9 1.67• 53.84• 60. 00• 67.50• • 5. LOW PRICES• 41.67• 23.07• 20.00• 22 .50• • 3. LOW LOCAL DEMAND• 25.00	• 7 69• 6 67• 12
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CHAPTER – XI

CONCLUSIONS AND POLICY IMPLICATIONS

From data collection, analysis, personal observations and discussions with the experts in the field of mushroom cultivation many points emerge which have been presented in the following text.

11.1 PRELIMINARY

The cultivation of mushrooms is important in the state, as it would help in reducing the population pressure on the scarce land resource. The generation of additional employment opportunities would be able to ease the unemployment situation, may be in whatever smaller degree. With this in mind the mushroom cultivation was introduced in the state, but the growth rate of adoption of this activity did not touch the desired level. Even those farmers who initially adopted this activity, later on abandoned it due to one reason or another. Most important from these were the high technicality involved in mushroom production and this venture being highly capital and labour intensive. It has been observed that farmers have to depend on purchased inputs like spawn and compost, which is some times not easily available; the capital requirements may not be easy to meet with.

11.2 METHODOLOGY

The study has been based on 70 mushroom cultivators located in two districts viz Solan and Shimla of Himachal Pradesh. The sample has been divided in to three categories, small, medium and large depending upon the scale of mushroom cultivation.

11.3 GOVERNMENT INITIATIVE

The state government of Himachal Pradesh on its part has been providing many incentives and initiated many schemes to boost this activity in the state. The farmers are being provided training for imparting the production technology. Bank loans are arranged to meet with the capital requirements. There is also a provision of subsidy for marginal and small farmers, unemployed youth and schedule caste and schedule farmers.

11.4 BACKGROUND OF MUSHROOM CULTIVATORS

The analysis reveals that the average family size of mushroom cultivators in the state was 5.95 persons per family of which about 81% were literate and about 11% were formally educated. This indicates that due to high level of technology involved only those persons have adopted this activity that had some formal education or at least were literate. Despite good returns only about 22% persons had mushroom cultivation as their primary occupation, agriculture still remains the main source of employment. About 54% farmers had mushroom farming as their secondary occupation. The mushroom farms were invariably located very near to road head or on the road head it self. The mushroom farmer of the state were observed to be having about two hectares of farm land of which only 1.20 hectares was cultivator.

11.5 ECONOMICS OF MUSHROOM CULTIVATORS

The mushroom farmers of the state were observed to be cultivating only white button mushrooms that were invariably cultivated in separate buildings. In most of the cases these buildings were cemented. At overall level about hundred 30 sq.mts. of area was devoted for mushroom cultivation by each farmer. The use of wooden trays for cultivation was found to be non-existent and polythene bags were used for the purpose as these were reported to be cheep. The cost A of cultivation was observed to be Rs. 50.51 at overall level were as cost B and C were Rs.50.53 and Rs.63.80 per bag respectively. The cost of production of mushroom at overall level was Rs.23.83 per kg and it was highest in medium farmers and lowest in case of large farmers. They were observed to taking about 75 harvest of mushroom per year and average production per harvest was about 84 kgs. About 70 per cent of the total production was of grade A about 23% grade B and the rest grade C. Compost has been observed to be the highest cost component followed by the labour. Highest amount of labour was absorbed by crop management, which was followed by spawning and filling of compost in the bag. About 53% of the labour came from higher sources and rest belongs to family. The average net returns at overall level from mushroom cultivation were observed to be about Rs. 50 thousand per farm. The output-input ratios were observed to be quite favourable and farmers were observed to be growing about four times the quantity of mushrooms than the break even volume.

The analysis further revealed that the financial ratios like capital turn over ratio, gross ratio, operating ratio and rate of return over the capital are favourable for the cultivation of mushroom

in the state. The production function analysis indicated that total working capital and human labour are the important inputs determining the yield of mushroom in the state. However, both these inputs were being used in quantities that were in excess of the optimum values.

11.6 MARKETING

The marketing of mushroom was observed to be very risky process as the mushrooms are highly perishable and have to reach the final consumer with in least possible time. Three marketing channels were existence for accomplishing this task. For marketing the mushrooms are packed in polythene bags of two hundred grams each which in turn are packed in cfb cartons for transporting these to the markets. Shimla is the main market for disposal of the produce, some quantity from Solan is also sent to Chandigarh. The mold of transportation for distant markets is the bus where as for local market it is either head load or scooter/cycle etc. are used for transporting mushrooms to local market. About 7% of the produce is sold at the farm gate. The producer share in consumer rupee was observed to be varying between 43 and 45 per cent in Solan depending upon the channel used where as it was about 47 per cent in district Shimla.

11.7 PROBLEM FACED

The highly technical nature of production of mushrooms put various problems to the farmers on this front. Many farmers complained about the lack of knowledge of production techniques. Other common problems faced by farmers include lack of capital and labour, unavailability of inputs and lack of credit. On the other hand low volume of production was the most common complained in the market scenario. The other problems faced during marketing include far away markets, low local demand, high parshibility, low prices and high marketing cost.

11.8 POLICY IMPLICATIONS

- 1. The private units for production of compost and spawn be encouraged as these are the inputs whose availability is critical for the adoption and spread of the activity.
- 2. The benefit of training should be extended to larger number of people. More persons can be motivated for attending these training by increasing the daily allowance and other benefits can be included as a package e.g. some quantity of free compost or spawn or other inputs like polythene bags etc.

- **3.** The importance of the activity and the training programme schedules and importance should be widely advertised in local Hindi newspapers, read in rural areas.
- 4. Transportation subsidy should be provided on the produce for bringing it to the market.
- 5. The extension services should be geared up for providing technical advice on the doorstep of the farmers.
- **6.** The department of horticulture should provide the compost not only to registered growers but also to any one who grows mushrooms, whether registered or not.
- 7. The farmers are advised to reduce the use of labour for mushroom cultivation
- 8. The working capital per bag needs reduction.
- **9.** None of the mushroom growers was observed to be processing the mushrooms. The importance of this should be told to them.
- **10.** The extent of the activity can be increased many times without having any fear of market demand. The present production is not sufficient to meet the demand of even Shimla city.