

Shifting Pattern of Agriculture Farming From Traditional To Modern System in Vaishali District of Bihar

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ABSTRACT

Vaishali district is one of the most fertile district of Bihar best suited for agricultural production. A large extent of commercial cultivation of fruits, flowers and vegetables is being done in Vaishali district. A study was conducted in the Vaishali district for analysing the shifting pattern of traditional system of agriculture farming into modern farming system. Data collection was done from government department of Bihar as well as from Dr. Rajendra Prasad Central Agriculture University, Pusa Bihar. The study indicated that in Vaishali district farmers are using modern approaches as well as more emphasis were given on scientific cultivation practices such as using HYVs seeds, fertilizers, good tilth, spacings, plant protection control etc and an inclined growth in the overall area and production of agricultural crops were noticed in the district which is really tremendous in terms of increasing farmers income and in contribution of GDP of Bihar.

KEYWORDS- Traditional, Modern, Tilth, HYVs, Spacing, Fertilization, Plant Protection.

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I. INTRODUCTION

Agriculture is an art and science of cultivating the soil, growing crops and raising livestock. It includes the preparation of plant and animal products for people to use and their distribution to markets. Agriculture is the key to the overall development of the State economy. Agriculture is the backbone of Bihar's economy 77% of workforce and generating nearly 24.84% of the State Domestic Product. Vaishali one of the fertile segment of North Bihar plain having plenty of alluvial soil is the great centre of cultivation for agricultural farming. The district of Vaishali was a subdivision (named Hajipur subdivision) of Muzaffarpur district till 1971. It acquired the status of an independent district on 2nd October 1972. Hajipur is the headquarter of Vaishali district. The studied area of Vaishali has three subdivisions, 16 blocks, 290 panchayats and 1414 villages. The district is surrounded by Muzaffarpur district in the north, Gangariver and Saran District in the west. Vaishali district has historical importance as first republic of world was Vaishali, Birth place of Bhagwan Mahavir in Kundalgram, Gautam Buddha Republic Stupa, Incarnation Pond, Raja Vishal Garh, Shanti Stupa, Ashokan Pillar are the attraction of tourists. Currently a trend of shifting in Vaishali district from traditional to modern farming system such as production of high values agricultural produce as Mentha grass, mushroom, flowers, medicinal plants, singhara, vegetables, fruits, refused based livestock and poultry etc. is being observed.

Objective

The main aim/ objective of the study is to explain the trend of shifting pattern of agricultural system from traditional to modern in the Vaishali district of Bihar so that the farmers can fetch more income by doing agriculture and can sustain their livelihood in a good manner which will ultimately contributes in increasing the Gross Domestic Produce.

II. MATERIAL AND METHODOLOGY

Material

The study for the shifting pattern of agricultural farming system from traditional to modern system was being studied in various crops of Vaishali district. Various crops which were studied was horticultural, floricultural including olericultural Crops.

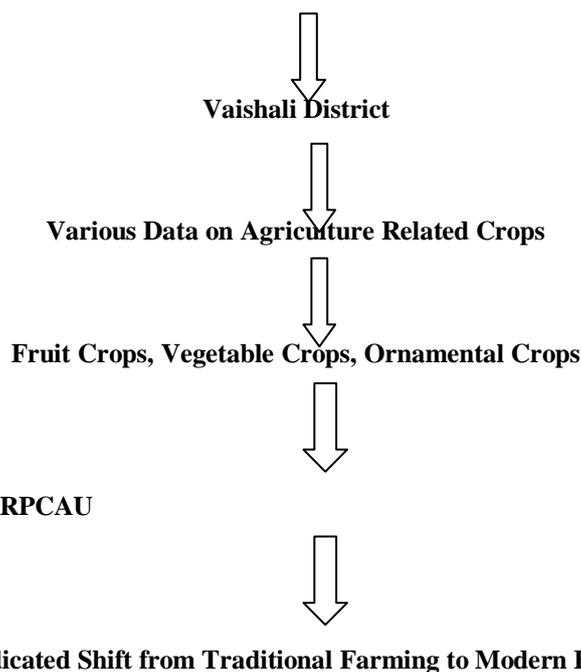
Methodology

This research is based on the personal survey, observation, enquiry and collection of information and secondary data. The research is carried on the primary and various types of secondary data from studied area. The agricultural data described in the research is obtained from District Agriculture Officer, Block Office, District Agriculture Office, Banana Research Centre of Vaishali district and from Dr. Rajendra Prasad Central Agriculture University, Pusa.

The studied area of Vaishali district shows that there is no land under forest cover. The history reveals that the area was covered with dense forest in historical past, but forest area was cleared off gradually. People of the studied area required more land under cultivation. Hence, gradually the area under forest cover was cleared off for agricultural production. Special care by the government is being taken recently on plantation of valuable and useful commercial plants along roads, embankments and in the village. The different government departments, plant protection department facilitated the growth of orchards and plantation as waste land along roads and canals etc.

The studied area is very much suitable for the best quality of litchi in the country. The people are concentrating on the production of litchi and exporting them to the distant places including other countries. Therefore a shift over agriculture to the orchard development Banana, Mango and Guava production is noted in whole Bihar indicating that the recent trend is being shifted to modern agriculture system from the traditional system.

❖ **Schematic Representation of Adopting Modern Agriculture Farming Bihar**



Sourced from DAO, BO, DRPCA

III. RESULT AND DISCUSSION.

Table 1: Area and Production of fruits grown by practicing modern farming techniques in Vaishali District

Year	Mango		Litchi		Banana		Guava	
	Area in Hectares	Production in tonnes	Area in Hectares	Production in tonnes	Area in Hectare	Production in tonnes	Area in Hectares	Production in tonnes
2009-10	8324	59100	3551	25877	3175	151765	1292	11053
2010-11	8367	77713	3586	26895	3798	154144	1298	10773
2011-12	8388	74653	3602	27050	3212	163491	1303	11597
2012-13	8420	78020	3600	26990	3305	163500	1340	10870
2013-14	8340	78900	3610	27050	3350	167900	1370	10950
2014-15	8430	76000	3660	21400	3360	14200	1600	11205
2015-16	8470	86000	3700	21700	3400	142000	1500	11200
2016-17	8481	86700	3702	22005	3406	150000	1500	11250

Source: Agriculture Department, Government of Bihar

Table: 2 Area and Production of flowers grown by practicing modern farming techniques in Vaishali District.

Year	Marigold		Rose		Jasmine	
	Area in Hectares	Production in tonnes	Area in Hectares	Production in tonnes	Area in Hectare	Production in tonnes
2008-09	14.40	276.00	3.15	3.97	2.85	8.32
2009-10	19.60	364.56	3.80	5.17	6.95	21.55
2010-11	19.95	371.09	3.95	5.37	7.50	23.25
2011-12	21.60	406.08	4.15	5.81	7.90	26.86
2012-13	25.75	482.00	4.85	8.52	7.50	23.25
2013-14	32.50	610	4.85	8.52	7.50	23.25
2014-15	33.59	705	4.99	9.21	7.32	24.32
2015-16	35.19	790	4.79	9.50	8.12	26.02
2016-17	35.67	810	5.12	10.25	7.62	25.06
2017-18	34.12	802	5.01	10.01	7.88	26.02

Source: Agriculture Department, Government of Bihar.

Table: 3 Area and Production of Vegetables grown by practicing modern farming techniques in Vaishali District.

Year	Cauliflower		Brinjal	
	Area in Hectares	Production in tonnes	Area in Hectares	Production in tonnes
2009-10	4953	89754	3058	70946
2010-11	4968	91411	3072	68813
2011-12	4979	94103	3094	73637
2012-13	5810	98410	3070	68810
2013-14	5970	99300	3100	68810
2014-15	6000	100000	3200	69000
2015-16	6000	100000	3210	69000
2016-17	6039	105000	3275	75000
2017-18	6047	103700	3290	76000

Source: Agriculture Department, Government of Bihar

It is clearly evident from the above three tables that there has been inclined growth in the overall area and production of fruits, flowers and vegetables in Vaishali district. The growth observed in the production is being obtained by adopting various traditional approaches or by emphasizing much on scientific cultivation practices in Vaishali district. The farmers used various approaches such as they used High Yielding Varieties of seeds, good tilth of soil, optimum doses of fertilizers, given frequent irrigation to crops, optimum spacing, good seed rate, Advance tools and machines for seed sowing and the farmers also gave herbicide, fungicide, insecticide, weedicide application when required at different stages. All these scientific approaches utilized by the farmers by shifting their way old traditional method to modern method of agricultural farming is of great use and will give tremendous result in favour of the farmers income as well as in the contribution of GDP of Bihar.

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