Vol 3 Issue 2 Aug 2013

ISSN No :2231-5063

International Multidisciplinary Research Journal

Golden Research Thoughts

Chief Editor
Dr.Tukaram Narayan Shinde

Publisher Mrs.Laxmi Ashok Yakkaldevi Associate Editor Dr.Rajani Dalvi

Honorary Mr.Ashok Yakkaldevi

Welcome to GRT

RNI MAHMUL/2011/38595

ISSN No.2231-5063

Golden Research Thoughts Journal is a multidisciplinary research journal, published monthly in English, Hindi & Marathi Language. All research papers submitted to the journal will be double - blind peer reviewed referred by members of the editorial board. Readers will include investigator in universities, research institutes government and industry with research interest in the general subjects.

International Advisory Board

Flávio de São Pedro Filho Federal University of Rondonia, Brazil

Kamani Perera

Regional Center For Strategic Studies, Sri

Lanka

Janaki Sinnasamy

Librarian, University of Malaya

Romona Mihaila

Spiru Haret University, Romania

Delia Serbescu

Spiru Haret University, Bucharest,

Romania

Anurag Misra DBS College, Kanpur

Titus PopPhD, Partium Christian University, Oradea, Romania

Mohammad Hailat

Dept. of Mathematical Sciences, University of South Carolina Aiken

Abdullah Sabbagh

Engineering Studies, Sydney

Ecaterina Patrascu

Spiru Haret University, Bucharest

Loredana Bosca

Spiru Haret University, Romania

Fabricio Moraes de Almeida Federal University of Rondonia, Brazil

George - Calin SERITAN

Faculty of Philosophy and Socio-Political Sciences Al. I. Cuza University, Iasi

Hasan Baktir

English Language and Literature

Department, Kayseri

Ghayoor Abbas Chotana Dept of Chemistry, Lahore University of

Management Sciences[PK]

Anna Maria Constantinovici AL. I. Cuza University, Romania

Ilie Pintea,

Spiru Haret University, Romania

Xiaohua Yang PhD, USA

.....More

Editorial Board

Pratap Vyamktrao Naikwade Iresh Swami

ASP College Devrukh, Ratnagiri, MS India Ex - VC. Solapur University, Solapur

R. R. Patil

Head Geology Department Solapur

University, Solapur

Rama Bhosale

Prin. and Jt. Director Higher Education, Panvel

Salve R. N.

Department of Sociology, Shivaji

University, Kolhapur

Govind P. Shinde Bharati Vidyapeeth School of Distance Education Center, Navi Mumbai

Chakane Sanjay Dnyaneshwar Arts, Science & Commerce College,

Indapur, Pune Awadhesh Kumar Shirotriya Secretary, Play India Play, Meerut (U.P.)

N.S. Dhaygude

Ex. Prin. Dayanand College, Solapur

Narendra Kadu Jt. Director Higher Education, Pune

K. M. Bhandarkar Praful Patel College of Education, Gondia

Sonal Singh Vikram University, Ujjain

G. P. Patankar

Maj. S. Bakhtiar Choudhary

Director, Hyderabad AP India.

S.Parvathi Devi Ph.D.-University of Allahabad

Sonal Singh, Vikram University, Ujjain Rajendra Shendge

Director, B.C.U.D. Solapur University,

Solapur

R. R. Yalikar

Director Managment Institute, Solapur

Umesh Rajderkar

Head Humanities & Social Science YCMOU, Nashik

S. R. Pandya

Head Education Dept. Mumbai University, Mumbai

Alka Darshan Shrivastava

S. D. M. Degree College, Honavar, Karnataka Shaskiya Snatkottar Mahavidyalaya, Dhar

Rahul Shriram Sudke

Devi Ahilya Vishwavidyalaya, Indore

S.KANNAN

Annamalai University,TN

Satish Kumar Kalhotra

Maulana Azad National Urdu University

Address:-Ashok Yakkaldevi 258/34, Raviwar Peth, Solapur - 413 005 Maharashtra, India Cell : 9595 359 435, Ph No: 02172372010 Email: ayisrj@yahoo.in Website: www.aygrt.isrj.net

Golden Research Thoughts ISSN 2231-5063 Impact Factor : 2.2052(UIF) Volume-3 | Issue-2 | Aug-2013

Available online at www.aygrt.isrj.net







AGRICULTURAL PRODUCTION AND FACTORS AFFECTING IT

Shelly Gupta

Abstract:-Agriculture in India has a significant history. Today, India ranks second worldwide in farm output. Agriculture and allied sectors like forestry and fisheries accounted for 13.7% of the GDP in 2012-13 about 47% of the total workforce. The economic contribution of agriculture to India's GDP is steadily declining with the country's broad-based economic growth. Still, agriculture is demographically the broadest economic sector and plays a significant role in the overall socio-economic fabric of India.

Everyone today knows that agriculture in any country is a combination of physical and economic factors. But to what degree has it been dependent on these factors in India in the past 20 years in the motive of this project. This research focuses on the production of major commercial crops produced in India and how factors like government expenditure, annual rainfall and area under production affect it. The project contains statistical data on all such factors from 1991-2011.

I.INTRODUCTION

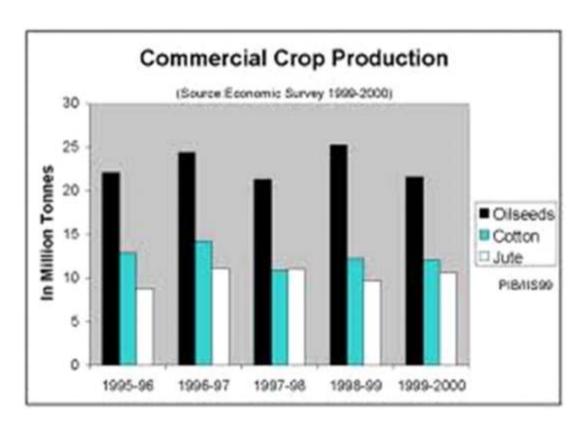
India has notably made very impressive strides on the agricultural front during the past three decades. The credit for this success goes to the several million small farming families that form the backbone of Indian agriculture and Indian economy. Other factors such as policy support, production strategies, public investment in infrastructure, research and extension for crop, livestock and fisheries etc. have significantly helped in increasing the agricultural productivity, food production and its availability. India has experienced considerable changes in the crop mix, yield and production since the dawn of the Green Revolution.

The study focuses on the production of commercial crops in India. A commercial crop is a crop **which is grown for money.** The term is used to differentiate from subsistence crops, which are those fed to the producer's own livestock or grown as food for the producer's family. Commercial crops include oilseeds, sugarcane, condiments and spices, cotton, jute, tobacco etc.

In a commercial based agriculture, crops are raised in large scale plantations or estates and shipped off to other countries for money. These systems are common in sparsely populated areas such as Gujarat, Punjab, Haryana, and Maharashtra.

Oilseeds, cotton, jute, sugarcane, tobacco are the five crops considered among major commercial crops in India and hence included in the study.

The above bar diagram shows the comparison between the commercial crops- Oil Seeds, Cotton and Jute-from the period 1995-1996 to 1999-2000.



The project contains statistical data on all such factors from 1991-2011. The study traces various conclusions that have been drawn by using SPSS and excel.

RESULTS:

We estimate the model in linear form as: $Y = 1 + \beta 2.X1 + \beta 3.X2 + \beta 4.X3 + \beta 5.X4$ Where Y = Value of Production $\beta 1 = Constant/Intercept$ X1 = Area under Cultivation X2 = Yield per Hectare

X3= Government Expenditure

X4= Rainfall

The results of OLS regression using SPSS were found as follows: $Y = -323.085 - .482(Area \ under \ Cultivation) + 0.007(yield \ per \ hectare) + 0.008(government \ expenditure) + .153(rainfall)$

From the above regression, a unit increase in area under cultivation leads to 0.482 units in production of commercial crops. Similarly, a unit increase in yield per hectare, government expenditure and rainfall leads to 0.007, 0.008 and 0.153 units increase in production respectively. All the coefficients were found to be statistically significant (at least at 10percent level of significance) except for area under cultivation.

The R2 value of 0.722 means that 72% of the variation in production can be explained by our four independent variables. This shows that majority of the variation is explained by these four variables. However, there are innumerous other variables which affect the production levels of agriculture crops.

CONCLUSION:

The above research dissects which variables lead to changes in production of commercial crops. Since commercial crops are grown for money as discussed earlier, any changes might have substantial effect on the livelihood of farmers. This will also help government in focusing on areas which are most important in affecting production.

· Agricultural Production And Factors Affecting It

BIBLIOGRAPHY:

- 1.Binswanger, Hans P. & Khandker, Shahidur R & Rosenzweig, Mark R, "How infrastructure and financial

- institutions affect agricultural output and investment in India".

 2. Kerr, John M. "Sustainable development of rainfed agriculture in India" (1996).

 3. Blyln, G, "Agricultural Trends in India 1891-1947".

 4. V.M. Rao, "Agricultural Growth in India".

 5. Archana S Mathur, Surajit Das, Shubhalakshmi Sircar, "Status of Agriculture in India: Trends and Prospects" S.D. Sawant, "Agriculture Growth across crops and Regions".

 6. D. Washbrook "The Commercialization of Agriculture in Colonial India".
- $6. D\,Washbrook, ``The\,Commercialization\,of\,Agriculture\,in\,Colonial\,India".$

Publish Research Article International Level Multidisciplinary Research Journal For All Subjects

Dear Sir/Mam,

We invite unpublished Research Paper, Summary of Research Project, Theses, Books and Book Review for publication, you will be pleased to know that our journals are

Associated and Indexed, India

- ★ International Scientific Journal Consortium
- * OPEN J-GATE

Associated and Indexed, USA

- EBSCO
- Index Copernicus
- Publication Index
- Academic Journal Database
- Contemporary Research Index
- Academic Paper Databse
- Digital Journals Database
- Current Index to Scholarly Journals
- Elite Scientific Journal Archive
- Directory Of Academic Resources
- Scholar Journal Index
- Recent Science Index
- Scientific Resources Database
- Directory Of Research Journal Indexing

Golden Research Thoughts 258/34 Raviwar Peth Solapur-413005, Maharashtra Contact-9595359435 E-Mail-ayisrj@yahoo.in/ayisrj2011@gmail.com Website: www.aygrt.isrj.net