

Volume-1, Issue-2, September 2014 **RESEARCH HUB – International Multidisciplinary Research**

Journal

Research Paper Available online at: www.rhimrj.com

An overview on 'Agricultural Development in developing India'

Prof. Milan S. Shah Head of the Department, Department of Economics, N. C. Bodiwala Commerce College, Ahmedabad, Gujarat India

Abstract: India being an agricultural country the Improvements in agricultural productivity creates social and economic ripple effects. With increased incomes, small farmers can better feed their families, send their children to school, provide for their health, and invest in their farms to enhance the productivity. This makes their communities economically stronger and more stable. Over the past hudnreds of years, nearly every part of the developed world has seen an agricultural transformation. As mehtods of farming improved, so did incomes, health, and economies. During the Green Revolution, which took place from the 1960s to the 1980s, improvements in staple crops like maize, wheat, and rice helped double the amount of food produced, survived hundreds of millions of lives, and drove broader development throughout much of Asia and Latin America. There were also some serious unintended consequences—particularly regarding the environmental problems, which we need to take into account. But the efforts demonstrated that large-scale progress against hunger and poverty is possible. In the last several years, the global community has begun to refocus its attention on agriculture sector. Day to day rising in prices of food and feeding growing population are prompting major private organizations and government organization to understand the importance and urgency of this sector.

Keywords: Productivity, health, double, hunger, attention, agriculture

INTRODUCTION

T

In the developing India government's commitment to agriculture is a global success story. Since Independence in 1947, India has succeeded in significantly reducing the number of people living under poverty. In the early 1960s, India introduced "Green Revolution" technologies consisting high-yielding grain varieties, pesticides, fertilizer and irrigation. India was self-sufficient in food-grain production by early 1990s. But it was not sufficient for each person access to the food produced, and India is still lacking in food grain production and it is the country with the poorest people on our globe. It is globally accepted that agricultural growth and human development goes hand in hand (in the fields of education, health and women's issues) and are major factors for rural development. The World Bank, the International Fund for Agricultural Development, the Food and Agriculture Organization of the United Nations, as well as bilateral development agencies agree that investment in agricultural sector's growth contribute lot to reduce poverty and provide the platform for development to the rural poors. In 2001 India's 1028 million people of which around 300 million people were classified as "poor people".

The agricultural sector has great potential to build economic growth in rural areas. It creates employment opportunities in adding value as in the food processing industry, providing agricultural products to the consumers as marketing activities, and in providing support like infrastructure, information, quality control and training etc. Rising population is alarming situation in our country and has enhanced demand for food grains. Improved standards of living across the glob expecting demand for quality food like more meat, dairy products and organic food. To meet this demand the national farming output must be rised, and farmers must produce different types of products to suit the varying demand. The people living in rural areas or remote rural areas should have enough access to necessary food to meet their basic requirements.

II. WHY AGRICULTURAL PRODUCTS NEED REFORM IN ITS PRODUCTIVITY?

According to global hunger Index 2013 every year around a billion of people are affected due to poverty and sever hunger. Worldwide, the Global Hunger Index 2013 has a value of 13.8, which indicates a serious food and nutrition security situation. Yet, in 1990 the global GHI was 20.8, which means a decrease of almost 34 percent in the last years.



According to the 2013 GHI, Hunger is still most prevalent in South Asia: with 20.7 the situation here is "alarming". Following suit with 19.2 is Sub-Saharan Africa. This means that for the first time, Sub-Saharan Africa has stayed under the mark of 20 points and its situation is now ranked in the better category "serious". In Eastern Europe, the Commonwealth of Independent States, and Latin America and the Caribbean the situation is considerably better: with value of 2.7 and 4.8 hunger is not very prevalent in these regions. By 2050, it's estimated that the earth's population will reach 9 billion. Global food production will need to jump by 70 percent to 100 percent to feed this population. Rising incomes, increasingly scarce resources, and a changing climate are putting additional strains on agricultural productivity.

The following table presents the twenty most important agricultural products in India, by its economic value, in 2009. Included in the table is the average productivity of India's farms for each produce. For context and comparison, included is the average of the most productive farms in the world and name of country where the most productive farms existed in 2010. The table suggests India has large potential for further accomplishments from productivity increases, in increased agricultural output and incomes.

C. No	Products	Economic Value	Per Unit Price	Avg. yield India-2010	Most productive farms across the glob	
Sr. No.	Products	2009 Price (Billion US\$)	US\$/Kg	Tonnes/He ctare	Tonnes/He ctare	Nation
1	Rice	38.42	0.27	3.3	10.8	Australia
2	Buffalo Milk	24.86	0.4	1.7	1.9	Pakistan
3	Cow Milk	17.13	0.31	1.2	10.3	Israel
4	Mangoes	9	0.6	6.3	40.6	Cape
5	Sugarcane	8.92	0.03	66	125	Peru
6	Wheat	12.14	0.15	2.8	8.9	Netherlan
7	Banana	8.38	0.28	37.8	59.3	Indonesia
8	Cotton	8.13	1.43	1.6	4.6	Israel
9	Vegelables	5.97	0.19	13.4	76.8	USA
10	Potatoes	5.67	0.15	19.9	44.3	USA
11	Tomatoes	4.59	0.37	19.3	524.9	Belgium
12	Buffalo meat	4.00	2.69	0.138	0.424	Thailand
13	Chicken meat	3.12	0.64	10.6	20.2	Cyprus
14	Onions	3.17	0.21	16.6	67.3	Ireland
15	Soyabean	3.33	0.26	1.1	3.7	Turkey
16	Chick peas	13.11	0.4	0.9	2.8	China
17	Eggs	2.80	2.7	0.1	0.42	Japan
18	Okra	3.07	0.35	7.6	23.9	Israel
19	Cattle	2.93	0.83	13.8	24.7	Japan
20	Beans	2.57	0.42	1.1	5.5	Nicaragua

TABLE 1

 TABLE 2

 Production of major crops during the recent years

Crops	Seasons	2007-08	2008-09	2009-10	2010-11	2011-12 Final Estimates	2012-13 2nd advance estimates
	Kharif	82.66	84.91	75.92	80.65	92.75	90.69
RICE	Rabi	14.03	14.27	13.18	15.33	12.56	11.11
	Total	96.69	99.18	89.10	95.98	105.31	101.80
Wheat	Rabi	78.57	80.68	80.80	86.87	94.88	92.30
Coarse	Kharif	31.89	28.54	23.83	33.08	32.46	28.51
Cereals	Rabi	8.86	11.49	9.72	10.32	9.58	9.96
Cerears	Total	40.75	40.03	33.55	43.40	42.04	38.47
Total	Kharif	114.55	113.45	99.75	113.73	125.21	119.19
Cereals	Rabi	101.46	106.45	103.70	112.52	117.02	113.37
	Total	216.01	219.90	203.45	226.25	242.23	232.56
	Kharif	6.40	4.69	4.20	7.12	6.06	5.48
Pulses	Rabi	8.36	9.88	10.46	11.12	11.03	12.09
	Total	14.76	14.57	14.66	18.24	17.09	17.57
Food	Kharif	120.96	118.9	103.95	120.85	131.27	124.68
Grains	Rabi	109.82	116.33	114.15	123.64	128.05	125.47
	Total	230.78	234.47	218.10	244.49	259.32	250.15
Oil seeds	Kharif	20.71	17.81	15.73	21.92	20.69	19.45
Off seeds	Rabi	9.04	9.91	9.15	10.56	9.11	10.01



		Total	29.75	27.72	24.88	32.48	29.80	29.46
Cotton* 25.88 22.28 24.02 33.00 35.20 33.	Sugarcane		348.19	285.03	292.30	342.38	361.04	334.54
	Cotton*		25.88	22.28	24.02	33.00	35.20	33.80
Jute & Mesta 11.21 10.37 11.82 10.62 11.40 11.	Jute & Mesta			10.37	11.82	10.62	11.40	11.13

Source: Directorate of Economics & Statistics, Ministry of Agriculture

Sr. No	Size Group	Number of holdings (in million)	Area operated (in million ha.)	Average operated area per holdings (ha.)	Percentage of holdings o total holdings	Percentage of area operated to total area
1	Marginal (Below1.00ha.)	92.4	35.4	0.38	67.04	22.25
2	Small (1.00-2.00ha.)	24.7	35.1	1.42	17.93	22.07
3	Semi-Medium(2.00-4.00 ha.)	13.8	37.5	2.71	10.05	23.59
4	Medium (4.00-10.00 ha.)	5.9	33.7	5.76	4.25	21.18
5	Large (Above10.00 ha.)	1.0	17.4	17.38	0.73	10.92
	All holdings	137.8	159.2	1.16	100.00	100.00

 TABLE 3

 Distribution of Number of Holdings and Area Operated in India as per Agriculture Census 2010-11

Source: Directorate of Economics & Statistics, Ministry of Agriculture

TABLE 4

Cropping Pattern	in India (Area in Million]	Hectares)	
Years	1990-91	2003-04	2009-10
Total Area Under Crops	185.74	189.67	192.20
Net Area Sown	143	140.71	140.02
Cropping Intensity (percent)	129.89	134.80	137.26
Area under Food Crops	141.03	142.12	141.06
Area under Non-Food Crops	44.71	47.55	51.1
Net Irrigated area	48.02	57.05	63.26
Total /Gross Irrigated Area	63.20	78.04	86.42

Source: Agriculture census 2010-11

III. CONCLUSION

Indian agriculture sector is suffering from climate change in the form of draught is one more factor adding to the existing agrarian and agriculture crisis in the country, that requires a decisive direction shift at the policy level. We need fundamental changes are each sub sector of agriculture. However the 'Green Revolution' not met its expected target. A change is already a reality for Indian farmers and that conventional models of agricultural research and extension will fail to address the need of the hour. The immediate need for interfere action restrains traditional models of research and support systems and requires alternative but urgent programmatic interventions, led by farmers' institutions and their local resources, knowledge and innovations. Existing major models of farming are not propitious to adaptation either given their high external input dependency – models which increase the risk of pervious farmers. On the other hand, Sustainable agriculture holds tremendous mitigation and adaptation potential, specifically in the context of climate change even as it improves rural livelihoods and addresses the ecological crisis like genetic erosion, land degradation, water depletion and contamination etc. in Indian farming. This article concludes that there are no choice with Indian government and Indian farmers but it is essential to establish, promote and develop sustainable agriculture acorss the country.

REFERENCES

- 1. Welthungerhilfe, IFPRI, and Concern Worldwide. 2013. 2013 Global Hunger Index. Issue Brief No. 79. Washington, DC
- 2. "Global hunger worsening, warns UN". BBC (Europe). 14 October 2009. Retrieved 2010-08-22
- 3. Indian Agriculture in Brief 2000: Directorate of Economics and Statistics, Department of Agriculture and Cooperation, Ministry of Agriculture, Govt. of India, New Delhi.
- 4. Ahluwalia, Montek S (2011), "Prospects and Policy C hallenges in the Twelfth Plan", Economic and Political
- 5. CMIE 1997: Directory of Indian Agriculture, pp 402 Centre for Monitoring Indian Economy Pvt. Ltd., Mumbai.
- 6. Weekly, Vol. XLVI, No. 21, May 21, 2011, pp: 88-104.
- 7. Bardhan, P K (1973): "Size Productivity and Returns to Scale: An Analysis of Farm-level Data in Indian Agriculture", Journal of Political Economy, Vol 81(6):1370-86.



- 8. Berry, R A (1972): "Farm Size Distribution, Income Distribution and the Efficiency of Agricultural Production: Colombia", American Economic Review, Vol 62(1): 403-08.
- 9. Challa, J., P. K. Joshi and Prabhakar Tamboli (2011), "Revitalizing Higher Agricultural Education in India: Issues and Challenges" Economic and Political Weekly, Vol. 46, Nos. 26 and 27, June 25, pp.
- 10. Indian Council of Agricultural Research, 1998: National Agricultural Technology Project, pp 193, ICAR, New Delhi.
- 11. Chand, Ramesh, P A Lakshmi Prasanna and Aruna Singh (2011), "Farm Size and Productivity: Understanding the Strengths of Smallholders and Improving Their Livelihoods", Economic and Political Weekly, Vol. XLVI, No. 26 & 27, June 25, pp: 5-11.
- 12. Contribution of Research Investment to Agricultural Growth in India ", Policy Paper 25,
- 13. Chand, Ramesh, Praduman Kumar and Sant Kumar (2011), "Total Factor Productivity and
- 14. National Centre for Agricultural Economics and Policy Research, New Delhi.