

Overview

- Food security means availability, accessibility and affordability of food to all people at all times. The poor households are more vulnerable to food insecurity whenever there is a problem of production or distribution of food crops. Food security depends on the Public Distribution System (PDS), Government vigilance and action at times when this security is threatened.

What is food security?

Food is as essential for living as air is for breathing. But food security means something more than getting two square meals. Food security has following dimensions

- availability of food* means food production within the country, food imports and the previous years stock stored in government granaries.
- accessibility* means food is within reach of every person.
- affordability* implies that an individual has enough money to buy sufficient, safe and nutritious food to meet one's dietary needs.

Thus, food security is ensured in a country only if (1) enough food is available for all the persons (2) all persons have the capacity to buy food of acceptable quality and (3) there is no barrier on access to food.

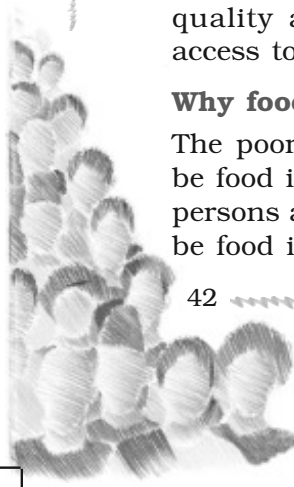
Why food security?

The poorest section of the society might be food insecure most of the times while persons above the poverty line might also be food insecure when the country faces

In the 1970s, food security was understood as the “availability at all times of adequate supply of basic foodstuffs” (UN, 1975). Amartya Sen added a new dimension to food security and emphasised the “access” to food through what he called ‘entitlements’ — a combination of what one can produce, exchange in the market alongwith state or other socially provided supplies. Accordingly, there has been a substantial shift in the understanding of food security. The 1995 World Food Summit declared, “Food security at the individual, household, regional, national and global levels exists when all people, at all times, have physical and economic access to sufficient, safe and nutritious food to meet their dietary needs and food preferences for an active and healthy life” (FAO, 1996, p.3). The declaration further recognises that “poverty eradication is essential to improve access to food”.

a national disaster/calamity like earthquake, drought, flood, tsunami, widespread failure of crops causing famine, etc. **How is food security affected during a calamity?** Due to a natural calamity, say drought, total production of foodgrains decreases. It creates a shortage of food in the affected areas. Due to shortage of food, the prices go up. At the high prices, some people cannot afford to buy food. If such calamity happens in a very wide spread area or is stretched over a longer time period, it may cause a situation of starvation. A massive starvation might take a turn of famine.

A Famine is characterised by wide spread deaths due to starvation and



epidemics caused by forced use of contaminated water or decaying food and loss of body resistance due to weakening from starvation.

The most devastating famine that occurred in India was the FAMINE OF BENGAL in 1943. This famine killed thirty lakh people in the province of Bengal.

Do you know who were affected the most by the famine? The agricultural labourers, fishermen, transport workers and other casual labourers were affected the most by dramatically increasing price of rice. They were the ones who died in this famine.



Table 4.1: Production of Rice in the Province of Bengal

Year	Production (Lakh tonnes)	Imports (Lakh tonnes)	Exports (Lakh tonnes)	Total Availability (Lakh tonnes)
1938	85	–	–	85
1939	79	04	–	83
1940	82	03	–	85
1941	68	02	–	70
1942	93	–	01	92
1943	76	03	–	79

Source: Sen, A.K, 1981 Page 61

Let's Discuss

1. Some people say that the Bengal famine happened because there was a shortage of rice. Study the table and find out whether you agree with the statement?
2. Which year shows a drastic decline in food availability?



Picture 4.1 Starvation victims arriving at a relief centre, 1945.



Picture 4.2 During the Bengal Famine of 1943, a family leaves its village in Chittagong district in Bengal.





Suggested Activity

- What do you see in Picture 4.1?
- Which age group is seen in the first picture?
- Can you say that the family shown in the Picture 4.2 is a poor family? why?
- Can you imagine the source of livelihood of the people, (shown in two Pictures) before the occurrence of famine? (In the context of a village)
- Find out what type of help is given to the victims of a natural calamity at a relief camp.
- Have you ever helped such victims (in the form of money, food, clothes, medicines etc.)

PROJECT WORK: Gather more information about famines in India.

Nothing like the Bengal Famine has happened in India again. But it is disturbing to note that even today, there are places like Kalahandi and Kashipur in Orissa where famine-like conditions have been existing for many years and where some starvation deaths have also been reported. Starvation deaths are also reported in Baran district of Rajasthan, Palamau district of Jharkhand and many other remote areas during the recent years. Therefore, food security is needed in a country to ensure food at all times.

Who are food-insecure?

Although a large section of people suffer from food and nutrition insecurity in India, the worst affected groups are landless people with little or no land to depend upon, traditional artisans, providers of traditional services, petty self-employed workers and destitutes including beggars. In the urban areas, the food insecure families are those whose working members are generally employed in ill-paid occupations and casual labour market. These workers are largely

engaged in seasonal activities and are paid very low wages that just ensure bare survival.

Story of Ramu

Ramu works as a casual labourer in agriculture in Raipur village. His eldest son Somu who is 10 years old also works as a *pali* to look after the cattle of the Sarpanch of the village Satpal Singh. Somu is employed for the whole year by the Sarpanch and is paid a sum of Rs 1,000 for this work. Ramu has three more sons and two daughters but they are too young to work on the field. His wife Sunhari is also (part time) working as house cleaner for the livestock, removing and managing cow dung. She gets ½ litre milk and some cooked food along with vegetables for her daily work. Besides she also works in the field along with her husband in the busy season and supplements his earnings. Agriculture being a seasonal activity employs Ramu only during times of sowing, transplanting and harvesting. He remains unemployed for about 4 months during the period of plant consolidation and maturing in a year. He looks for work in other activities. Some times he gets employment in brick laying or in construction activities in the village. By all his efforts, Ramu is able to earn enough either in cash or kind for him to buy essentials for two square meals for his family. However, during the days when he is unable to get some work, he and his family really face difficulties and sometimes his small kids have to sleep without food. Milk and vegetables are not a regular part of meals in the family. Ramu is food insecure during 4 months when he remains unemployed because of the seasonal nature of agriculture work.



- Why is agriculture a seasonal activity?
- Why is Ramu unemployed for about four months in a year?
- What does Ramu do when he is unemployed?
- Who are supplementing income in Ramu's family?
- Why does Ramu face difficulty when he is unable to have work?
- When is Ramu food insecure?

Story of Ahmad

Ahmad is a rickshaw puller in Bangalore. He has shifted from Jhumri Taliah along with his 3 brothers, 2 sisters and old parents. He stays in a *jhuggi*. The survival of all members of his family depends on his daily earnings from pulling rickshaw. However, he does not have a secured employment and his earnings fluctuate every day. During some days he gets enough earning for him to save some amount after buying all his day-to-day necessities. On other days, he barely earns enough to buy his daily necessities. However, fortunately, Ahmad has a yellow card, which is PDS Card for below poverty line people. With this card, Ahmad gets sufficient quantity of wheat, rice, sugar and kerosene oil for his daily use. He gets these essentials at half of the market price. He purchases his monthly stock during a particular day when the ration shop is opened for below poverty people. In this way, Ahmad is able to eke out his survival with less than sufficient earnings for his big family where he is the only earning member.



- Does Ahmad have a regular income from rickshaw-pulling?
- How does the yellow card help Ahmad

run his family even with small earnings from rickshaw-pulling?

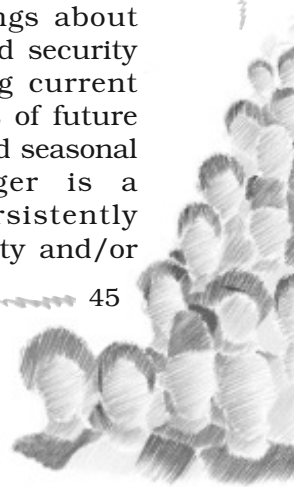
The social composition along with the inability to buy food also plays a role in food insecurity. The SCs, STs and some sections of the OBCs (lower castes among them) who have either poor land-base or very low land productivity are prone to food insecurity. The people affected by natural disasters, who have to migrate to other areas in search of work, are also among the most food insecure people. A high incidence of malnutrition prevails among women. This is a matter of serious concern as it puts even the unborn baby at the risk of malnutrition. A large proportion of pregnant and nursing mothers and children under the age of 5 years constitute an important segment of the food insecure population.

According to the National Health and Family Survey (NHFS) 1998-99, the number of such women and children is approximately 11 crore.



The food insecure people are disproportionately large in some regions of the country, such as economically backward states with high incidence of poverty, tribal and remote areas, regions more prone to natural disasters etc. In fact, the states of Uttar Pradesh (eastern and south-eastern parts), Bihar, Jharkhand, Orissa, West Bengal, Chattisgarh, parts of Madhya Pradesh and Maharashtra account for largest number of food insecure people in the country.

Hunger is another aspect indicating food insecurity. Hunger is not just an expression of poverty, it brings about poverty. The attainment of food security therefore involves eliminating current hunger and reducing the risks of future hunger. Hunger has chronic and seasonal dimensions. Chronic hunger is a consequence of diets persistently inadequate in terms of quantity and/or



quality. Poor people suffer from chronic hunger because of their very low income and in turn inability to buy food even for survival. Seasonal hunger is related to cycles of food growing and harvesting. This is prevalent in rural areas because of the seasonal nature of agricultural activities and in urban areas because of the casual labour, e.g., there is less work for casual construction labour during the rainy season. This type of hunger exists when a person is unable to get work for the entire year.

Table 4.2: Percentage of Households with 'Hunger' in India

Year	Type of hunger		
	Seasonal	Chronic	Total
<i>Rural</i>			
1983	16.2	2.3	18.5
1993-94	4.2	0.9	5.1
1999-2000	2.6	0.7	3.3
<i>Urban</i>			
1983	5.6	0.8	6.4
1993-94	1.1	0.5	1.6
1999-2000	0.6	0.3	0.9

Source: Sagar (2004)

The percentage of seasonal as well as chronic hunger has declined in India as shown in the above table.

India is aiming at Self-sufficiency in Foodgrains since Independence.

After independence, Indian policy makers adopted all measures to achieve self-sufficiency in food grains. India adopted a new strategy in agriculture, which resulted in the '**Green Revolution**' especially in the production of wheat and rice.

Indira Gandhi, the then Prime Minister of India, officially recorded the impressive strides of the Green revolution in agriculture by releasing a



Picture 4.3 A farmer from Punjab standing in a field of one of the High Yielding Varieties of wheat on which the Green Revolution is based.

special stamp entitled 'Wheat Revolution' in July 1968. The success of wheat was later replicated in rice. The increase in foodgrains was, however, disproportionate. The highest rate of growth was achieved in Punjab and Haryana, where foodgrain production jumped from 7.23 million tonnes in 1964-65 to reach an all-time high of 30.33 million tonnes in 1995-96. Production in Maharashtra, Madhya Pradesh, Bihar, Orissa and the northeastern states continued to stagger. Tamil Nadu and Andhra Pradesh, on the other hand, recorded significant increases in rice yield.

Suggested Activity

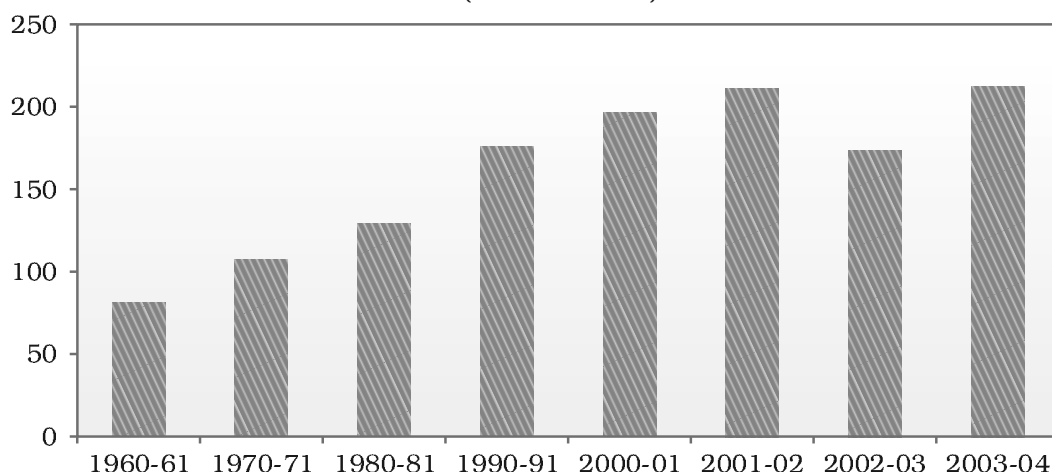
Visit some farms in a nearby village and collect the details of food crops cultivated by the farmers.

Food Security in India

Since the advent of the Green revolution in the early-'70s, the country has avoided famine even during adverse weather conditions.

India has become self-sufficient in foodgrains during the last thirty years because of a variety of crops grown all over the country. The availability of foodgrains (even in adverse weather conditions or otherwise) at the country level has further been ensured with a

Graph 4.1: Production of Foodgrains in India
(Million Tonnes)



Source: Economic Survey 2004-05.



Let's Discuss

Study the Graph 4.1 and answer the following questions:

- In which year did our country cross the 200 million tonnes per year mark in foodgrain production?
- In which decade did India experience the highest decadal increase in foodgrain production?
- Is production increase consistent in India since 2000-01?

carefully designed food security system by the government. This system has two components: (a) buffer stock and (b) public distribution system.

What is Buffer stock?

Buffer Stock is the stock of foodgrains, namely wheat and rice procured by the government through **Food Corporation of India (FCI)**. The FCI purchases wheat and rice from the farmers in states where there is surplus production. The farmers are paid a pre-announced price for their crops. This price is called **Minimum Support Price**. The MSP is declared by the government every year

before the sowing season to provide incentives to the farmers for raising the production of these crops. The purchased foodgrains are stored in granaries. Do you know why this buffer stock is created by the government? This is done to distribute foodgrains in the deficit areas and among the poorer strata of society at a price lower than the market price also known as **Issue Price**. This also helps resolve the problem of shortage of food during adverse weather conditions or during the periods of calamity.

What is the Public Distribution System?

The food procured by the FCI is distributed through government regulated ration shops among the poorer section of the society. This is called the public distribution system (PDS). Ration shops are now present in most localities, villages, towns and cities. There are about 4.6 lakh ration shops all over the country. Ration shops also known as **Fair Price Shops** keep stock of foodgrains, sugar, kerosene oil for cooking. These items are sold to people at a price lower than the market price. Any family with



a ration card* can buy a stipulated amount of these items (e.g. 35 kg of grains, 5 litres of kerosene, 5 kgs of sugar etc.) every month from the nearby ration shop.

*There are three kinds of ration cards: (a) Antyodaya cards for the poorest of the poor; (b) BPL cards for those below poverty line; and (c) APL cards for all others.



Suggested Activity

Visit your area's ration shop and get the following details

1. When does the ration shop open?
2. What are the items sold at the ration shop?
3. Compare the prices of rice and sugar from the ration shop with the prices at any other grocery shop? (for families below poverty line)
4. Find out:
Do you have a ration card?
What has your family recently bought with this card from the ration shop?
Are there any problems that they face?
Why are ration shops necessary?



Picture 4.4

The introduction of **Rationing** in India dates back to the 1940s against the backdrop of the Bengal famine. The rationing system was revived in the wake of an acute food shortage during the 1960s, prior to the Green Revolution. In the wake of the high incidence of poverty levels, as reported by the NSSO in the mid-1970s, three important food intervention programmes were introduced: Public Distribution System (PDS) for food grains (in existence earlier but strengthened thereafter); Integrated Child Development Services (ICDS) (introduced in 1975 on an experimental basis) and Food-for-Work** (FFW) (introduced in 1977–78). Over the years, several new programmes have been launched and some have been restructured with the growing experience of administering the programmes. At present, there are several Poverty Alleviation Programmes (PAPs), mostly in rural areas, which have an explicit food component also. While some of the programmes such as PDS, mid-day meals etc. are exclusively food security programmes, most of the PAPs also enhance food security. Employment programmes greatly contribute to food security by increasing the income of the poor.



Suggested Activity

Gather detailed information about some of the programmes initiated by the government, which have food component.

Hint: Rural wage employment programme, Employment Guarantee Scheme, Sampurna Grameen Rojgar Yojana, Mid Day Meal, Integrated Child Development Services, etc.

Discuss with your teacher.



****National Food for Work Programme**

National Food for Work Programme was launched on November 14, 2004 in 150 most backward districts of the country with the objective of intensifying the generation of supplementary wage employment. The programme is open to all rural poor who are in need of wage employment and desire to do manual unskilled work. It is implemented as a 100 per cent centrally sponsored scheme and the foodgrains are provided to States free of cost. The Collector is the nodal officer at the district level and has the overall responsibility of planning, implementation, coordination, monitoring and supervision. For 2004-05, Rs 2,020 crore have been allocated for the programme in addition to 20 lakh tonnes of foodgrains.



Current Status of Public Distribution System

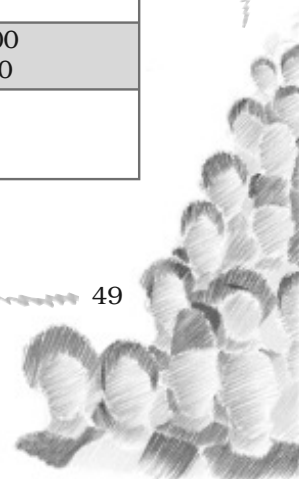
Public Distribution System (PDS) is the most important step taken by the Government of India (GoI) towards ensuring food security. In the beginning the coverage of PDS was universal with no discrimination between the poor and non-poor. Over the years, the policy related to PDS has been revised to make it more efficient and targeted. In 1992, Revamped Public Distribution System (RPDS) was introduced in 1,700 blocks in the country. The target was to provide the benefits of PDS to remote and backward areas. From June 1997, in a renewed attempt, Targeted Public Distribution System (TPDS) was introduced to adopt the principle of targeting the 'poor in all areas'. It was for the first time that a differential price policy was adopted for poor and non-poor. Further, in 2000, two special schemes were launched viz., Antyodaya Anna Yojana*** (AAY) and the Annapurna Scheme (APS) with special target groups

Table 4.3: Some Important Features of PDS

Name of scheme	Year of Introduction	Coverage target group	Latest volume	Issue price (Rs per kg.)
PDS	Up to 1992	Universal	–	W-2.34 R-2.89
RPDS	1992	Backward blocks	20 kg of food grains	W-2.80 R-3.77
TPDS	1997	Poor and non-poor	35 kg of food grains	BPL – W-2.50 R-3.50 APL-W-4.50 R-7.00
AAY	2000	Poorest of the poor	35 kg of food grains	W-2.00 R-3.00
APS	2000	Indigent senior citizens	10 kg of food grains	Free

Note: W - Wheat; R - Rice; BPL - Below poverty line; APL - Above poverty line

Source: Economic Survey



of 'poorest of the poor' and 'indigent senior citizens', respectively. The functioning of these two schemes was linked with the existing network of the PDS.

Some important features of PDS are summarised in Table 4.3.

The PDS has proved to be the most effective instrument of government policy over the years in stabilising prices and making food available to consumers at affordable prices. It has been instrumental in averting widespread hunger and famine by supplying food from surplus regions of the country to the deficit ones. In addition, the prices have been under revision in favour of poor households in general. The system, including the minimum support price and procurement has contributed to an increase in food grain production and provided income security to farmers in certain regions.

However, the Public Distribution System has faced severe criticism on several grounds. Instances of hunger are prevalent despite overflowing granaries. FCI go-downs are overflowing with grains,

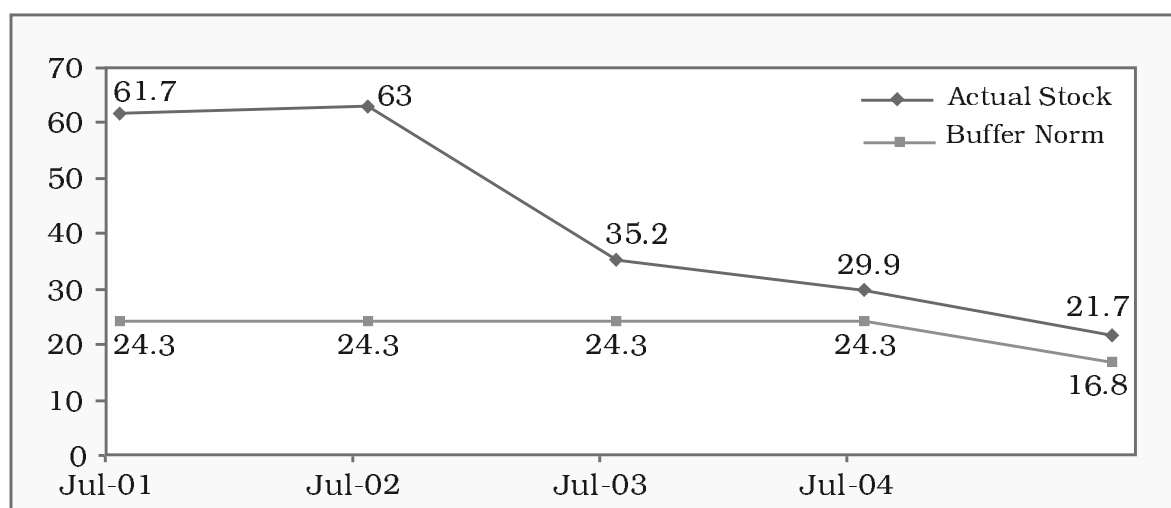
with some rotting away and some being eaten by rats. The Graph 4.2 shows the rising stocks of foodgrains till 2002.

***Antyodaya Anna Yojana (AAY)

AAY was launched in December 2000. Under the scheme one crore of the poorest among the BPL families covered under the targeted public distribution system were identified. Poor families were identified by the respective state rural development departments through a Below Poverty Line (BPL) survey. Twenty five kilograms of foodgrains were made available to each eligible family at a highly subsidised⁺ rate of Rs 2 per kg for wheat and Rs 3 per kg for rice. This quantity has been enhanced from 25 to 35 kgs with effect from April 2002. The scheme has been further expanded twice by additional 50 lakh BPL families in June 2003 and in August 2004. With this increase, 2 crore families have been covered under the AAY.



Graph 4.2: Central Foodgrains (Wheat + Rice) Stock and Minimum Buffer Norm (Million Tonnes)



Source: Economic survey 2004-05.

**Subsidy is a payment that a government makes to a producer to supplement the market price of a commodity. Subsidies can keep consumer prices low while maintaining a higher income for domestic producers.*



Let's Discuss

Study the Graph 4.2 and answer the following questions:

- In which recent year foodgrain stock with the government was maximum?
- What is the minimum buffer stock norm for the FCI?
- Why were the FCI granaries overflowing with foodgrains?

In July 2002, the stock of wheat and rice with FCI was 63 million tonnes which was much more than the minimum buffer norms of 24.3 million tonnes. The stock eased after 2002–03 due to relief operations undertaken by the government as the year was declared as drought year due to failure of monsoon. The decline in stocks continued in the subsequent years. However, these remained consistently higher than the buffer norms. The situation improved with the distribution of foodgrains under different schemes launched by the government. There is a general consensus that high level of buffer stocks of foodgrains is very undesirable and can be wasteful. The storage of massive food stocks has been responsible for high carrying costs, in addition to wastage and deterioration in grain quality. Freezing of MSP for a few years should be considered seriously.

The increased food grains procurement at enhanced MSP[#] is the result of the pressure exerted by leading



Picture 4.5 Farmers Carrying Bags of Grains to the Granaries.

foodgrain producing states, such as Punjab, Haryana and Andhra Pradesh. Moreover, as the procurement is concentrated in a few prosperous regions (Punjab, Haryana, Western Uttar Pradesh, Andhra Pradesh and to a lesser extent in West Bengal) and mainly of two crops— wheat and rice— increase in MSP has induced farmers, particularly in surplus states, to divert land from production of coarse grains, which is the staple food of the poor, to the production of rice and wheat. The intensive utilisation of water in the cultivation of rice has also led to environmental degradation and fall in the water level, threatening the sustainability of the agricultural development in these states.

[#] The rising Minimum Support Prices (MSP) have raised the maintenance cost of procuring foodgrains by the government. Rising transportation and storage costs of the FCI are other contributing factors in this increase.



Another major area of concern is the marked ineffectiveness of PDS, which is apparent from the fact that the average consumption of PDS grain at the all-India level is only 1 kg per person per month. The average consumption figure is as low as less than 300 gm per person per month in the states of Bihar, Orissa and Uttar Pradesh. In contrast, the average consumption in most of the southern states like Kerala, Karnataka, Tamil Nadu and Himachal Pradesh is in the range of 3–4 kgs per person per month. As a result the poor have to depend on markets rather than the ration shops for their food needs. In Madhya Pradesh only 5% of wheat and rice consumption of the poor are met through the ration shops. In Uttar Pradesh and Bihar the percentage is still lower.

PDS dealers are sometimes found resorting to malpractices like diverting the grains to open market to get better margin, selling poor quality grains at ration shops, irregular opening of the shops, etc. It is common to find that ration shops regularly have unsold stocks of poor quality grains left. This has proved to be a big problem. When ration shops are unable to sell, a massive stock of foodgrains piles up with the FCI. In recent years, there is another factor that has led to the decline of the PDS. Earlier every family, poor and non-poor had a ration card with a fixed quota of items such as rice, wheat, sugar etc. These were sold at the same low price to every family. The three types of cards and the range of prices that you see today did not exist. A large number of families could buy foodgrains from the ration shops subject to a fixed quota. These included low income families whose incomes were marginally higher than the below poverty line families. Now, with TPDS of three

different prices, any family above the poverty line gets very little discount at the ration shop. The price for APL family is almost as high as open market price, so there is little incentive for them to buy these items from the ration shop.

Role of cooperatives in food security

The cooperatives are also playing an important role in food security in India especially in the southern and western parts of the country. The cooperative societies set up shops to sell low priced goods to poor people. For example, out of all fair price shops running in Tamil Nadu, around 94 per cent are being run by the cooperatives. In Delhi, Mother Dairy is making strides in provision of milk and vegetables to the consumers at controlled rate decided by Government of Delhi. Amul is another success story of cooperatives in milk and milk products from Gujarat. It has brought about the White Revolution in the country. These are a few examples of many more cooperatives running in different parts of the country ensuring food security of different sections of society.

Similarly, in Maharashtra, Academy of Development Science (ADS) has facilitated a network of NGOs for setting up grain banks in different regions. ADS organises training and capacity building programmes on food security for NGOs. Grain Banks are now slowly taking shape in different parts of Maharashtra. ADS efforts to set up Grain Banks, to facilitate replication through other NGOs and to influence the Government's policy on food security are thus paying rich dividends. The ADS Grain Bank programme is acknowledged as a successful and innovative food security intervention.





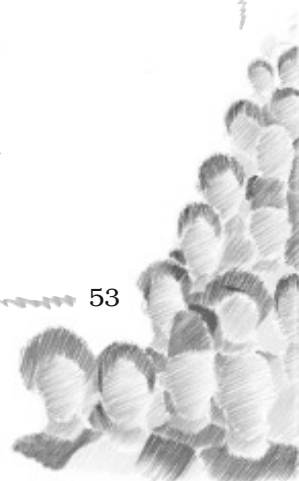
Summary

Food security of a nation is ensured if all of its citizens have enough nutritious food available, all persons have the capacity to buy food of acceptable quality and there is no barrier on access to food. The people living below the poverty line might be food insecure all the time while better off people might also turn food insecure due to calamity or disaster. Although a large section of people suffer from food and nutrition insecurity in India, the worst affected groups are landless or land poor households in rural areas and people employed in ill paid occupations and casual labourers engaged in seasonal activities in the urban areas. The food insecure people are disproportionately large in some regions of the country, such as economically backward states with high incidence of poverty, tribal and remote areas, regions more prone to natural disasters etc. To ensure availability of food to all sections of the society the Indian government carefully designed food security system, which is composed of two components: (a) buffer stock and (b) public distribution system. In addition to PDS, various poverty alleviation programmes were also started which comprised a component of food security. Some of these programmes are: Integrated Child Development Services (ICDS); Food-for-Work (FFW); Mid-Day Meals; Antyodaya Anna Yojana (AAY) etc. In addition to the role of the government in ensuring food security, there are various cooperatives and NGOs also working intensively towards this direction.



Exercises

1. How is food security ensured in India?
2. Which are the people more prone to food insecurity?
3. Which states are more food insecure in India?
4. Do you believe that green revolution has made India self-sufficient in food grains? How?
5. A section of people in India are still without food. Explain?
6. What happens to the supply of food when there is a disaster or a calamity?
7. Differentiate between seasonal hunger and chronic hunger?
8. What has our government done to provide food security to the poor? Discuss any two schemes launched by the government?
9. Why is a buffer stock created by the government?
10. Write notes on:
 - (a) Minimum support price
 - (b) Buffer stock
 - (c) Issue price
 - (d) Fair price shops
11. What are the problems of the functioning of ration shops?
12. Write a note on the role of cooperatives in providing food and related items.





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