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CREDITS The Special Report in this issue was prepared by S.S.A.L.Siriwardena of the Research Department

THE ECONOMIC REVIEW is intended to promote knowledge of and interest in the economy and economic development process by a many sided presentation of views & reportage, facts and debate. THE ECONOMIC REVIEW is a community service project of the People's Bank, Its contents, however, are the result of the official viewpoint. Signed feature articles also are the personal views of the authors and do not represent the institutions to which they are attached Similar contributions as well as comments and viewpoints are welcome. THE ECONOMIC REVIEW is published monthly and is available both on subscription and on direct sale,

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Photographs by Stanley Kiriwandala

The peasant farmer's ballad, on the cover, was translated from the original by P. F. Ariyananda

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DIARY OF EVENTS

July

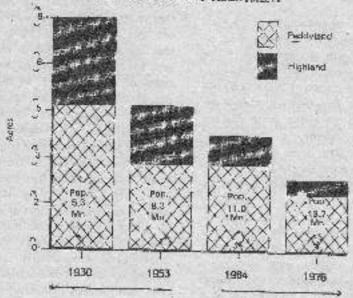
- 17 A US and gront for schantific research will engate work on developing a high yielding variety of sesame seed trelat at the Rohunu University, according to an USIS news release. The agreement was signed between US Aid and INARESA) the Sri Lanks Natural Resources Energy and Science Authority providing US\$ 128:300 for this work.
- 18 The Mahaweli Development Authority has introduced a scheme to rehabilitate the entire irrigational canal system of the Uda Walawe reservoir project. The estimated cost for this project is around \$ 130,000. The Astum Development Bank has agreed to provide 30 percent of these funds to the Mahaweli Development Authority.
- 23 The interest rate on World Bank loans to developing countries has been reduced from 8.5 percent to 8.23 per cent for the six acoustic beginning fully 1, 1986, according to an anabusement in Washington.
- The international Codes Agreement, 1986, was adopted in Geneval marking the successful conclusion of more than two years of negotiations held under UNICTAD's auspicas. The Agreement will be open for senature at United Nations Headquarters on 1 September and is due to enter into force on 1 October (Mso see page 20).
- An agreement providing for an United States Agency for International. Development (USAID) great of US& 112,351 to the Postgraduate Institute of Agriculture in Peradentys was signed in Colombo. The money will be utilized to design and test a low dash water level sensor for imagetion water management in Srt Lanks.
- Approximately 1,000 million people in Third World chies are directly or indirectly dependent on odd jobs on the informal sector for their livelihood, but the sector's absorption capacity long a safety value for tirking untemployment is nearing saggestion point. Its job openion potential is being strained to the utmost by the ever increasing rural. Turban drift combined with restrictive policies and aureaucratic harassment. Constraints and discriminatory measures by Governments should be phased out, according to an IEO report from Geness.

Aua

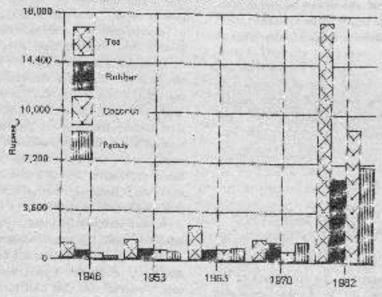
- The Colombo Consumer's Cost of Living Index for August 1986 was \$10.2 the Department of Census and Statistics announced. In July 1986 it was 606,3 and in August 1985 it was 556.3
- The fourth successive MFA (Multi Fibre Arrangement) osvering the international Trade in Textiles was extended for a further five years upto July 31, 1991 in Geneva by the Textiles Committee, the governing body of the Arrangement. Originally negotiated in 1973 and renewed in 1977 and 1982, in has currently 43 signaturies representing 54 countries, in 1984, trade in textiles and clothing between MFA members amounted to US\$ 48.1 bin, or 48 percent of the \$100.8 bin, world exports of textiles and clothes.
- The larest statistics from the International Rubbet Study Group (IRSG) revealed that the world production of natural rubber during the first quarter of this year was 1,080,000 terms against 1,039,000 during the corresponding 1985 period? While that of synthesic ma-

- terial reached 2.295,000 against 2.260,000 tenges the provides year
- Cabinet approved proposals for Sri Lanka to enter into two loan agreements with Japan. The first provides for a project loan for the sum of 14,500 million yen with the Overseas Economic Corporation Fund of Japan. This sum will be provided by the Japanese Government to meet the cost of the Samanalawawa Hydro Electric powers project. The other loan is for a sum not exceeding 2,500 million ven Both these loans are provided by the Japanese Government, in fulfillment of the piedge made at the Aid Group Meeting held in Paris in June 1999.
- 18 The Riemantions Ministry approunced that a sum of Rs 55 million that been paid out as subsidies to rubber small holders for replanting under the World Sank aided Rubber Fehabilitation project. Most of these funds were disbursed in the project areas of Kegalie, Ratrapura and Kajtuara the three major rubber growing districts last year.
- A Japanese joint venture to process and export granite slabs with an investment of Rs 7 million was officially approved by the GCEC. The GCEC announced that during the first five years of operation, this venture is estimated to earn Rs 50 million in folege exprange and give employment to 80 workers. About 1,500 tonnes of our and polished granite slabs and over 1,000 tonnes of sentil processed granite slabs are expected to be exported to Japan by the third year in operation.
- The Cabinet approved a proposal by the Lands and Mahaweli Minister under the Kirindi Oya hrigation and Salffanian project to provide irrigation facilities to 20,800 agrees of aswitand and improved facilities to 11,400 agrees of existing land. The Asian Development Bank which financed the major position of the sost unside phase I of the project has, in principle agreed to finance the phase II.
- The US and Sri Lanke governments signed a project agreement in Colombo for a six year trajection System Management (ISM) project. Total planned US Aid funding over the life of this project is \$ 18.6 million. The agreement provides an initial \$ 13.8 million of which \$ 8.0 million is a loan and \$ 5.8 million a grant.
- 28 Cabinet approved a proposal by the Trade and Shipping Minister for a Counter Trade Attangement between Shipping Lanks and Polens. Fifty steel containers for the Ceylon Shipping Corporation are to be purchased to exchange for rea The Ceylon Shipping Corporation has regotiated with the Polish manufactures for the fire purchase of the centainers.
 - Cobinet approved the offer submitted by M/S C trobend Company Ltd. of Japan for the supply of medical equipment for ten reral hospitals at a total of yen-837,740,000 under a Japan/Sni Lanka yen grans.
 - The covernment of US and Sri Lankaexchangedners agreeing to increase the fiscal year 1988 Pl. 480 title Asterment by US\$ 7 million. This increase, which lamps the total amount for fistal year 1986 to US\$ 38 million, is an advance on the PL 480 titled programme proposed for Fiscal year 1987. The Sri Lanka Government plans to use these additional funds to purchase approximately 68,000 metric tops of wheat, which will active rese in November 1986.

SIZE OF SETTLER ALLOTMENT



RETURN FROM FOUR PRINCIPAL CROPS



LAND SETTLEMENT IN SRI LANKA

Land settlement and land reform measures in most developing countries have attempted to improve the for of their rural passantry. In many such countries social unrest and inequities in their society are traced to landless ness or to the insecure and inequitable system of land tenure. Such situations have stirred the conscience of

their rulers to action and resontment among the majority of the rural population who feel that they have no stake in the land and are unable to receive a fair share of the fruits of their labour. It is in this context, in varying degrees of urgency, that land settlement and land development in Sri Lanka, over the last one and a half

centuries, have been concerned mainly with the need to raise the economic and social status of cural poeple, particularly the peasantry - the small farmers and the landless. The burden of implementing policies to achieve these objectives have rested with govern ment sponsored suttlement schemes. since the lands to be opened up for settlement were state owned and it was only governments that could offer the necessary incentives and supporting facilities for new scrtlements. Even unday there is an abiding congern with 'small farmer policies' and the old notion of government sponsored settlement schemes continues to be regarded as the most acceptable method. uf implementation

Many reviews of past land settle. ment policies have shown clearly that in several developing countries the same kinds of projects, containing on the surface at least the same kinds of 'mistakes', appear to have been steadily replicated time and again. An economist who visited Sri Lanka, David Dunham, in an analysis of this situation has shown that such land sectlements are costly compared to many other agrarian policies, offering law rates of cetum on the capital invested; they often register disappointingly low nutput levels; they are administratively top heavy; they frequantly suffer from internal social problems, and they often have fairly high rates of physical desertion. On the whole, the record of these schemes would seem to have been "bad", Dunham adds that "Srl Lankan experlence, stretching back as it does to the mineteenth century, is in no real sense an exception to the overall pattern, its settlement projects have in general proved to be costly, and in practice they have tended to be implemented without any rigorous means of financial control". To see the issues in proper parspective it is necessary to look back on the early attempts at formai land settlement and land development.

The earliest settlements in Sri Lanks, which began around 300 B.C. and extended upto the 12th century AD, were concentrated in the Dry Zone, where rice became the staple crop. By the first century AD large scale irrigation works were being built, and the first five centuries of this era are considered "the most creative and dynamic era in the history of irrigation activities in Sri Lanka". The response of the Dry Zone civilisation to the environmental conditions in this region is evident even today in the land use pattern it created. The number of tanks in the Dry Zone may be regarded as one index of the intensive land use in specific areas. For instance, agriculture in this area was determined, by and large, by the physical characteristics of the land

In these early times it is true that the king had certain claims over most of the land in his kingdom and there is evidence of the "rights" of individuals with regard to land. The tank became an essential feature of ancient villages in Sri Lanka and the rights of villagers to the use of this land for cultivation came to be based on customs and traditional principles in Sri Lanka. This system of land use under village tanks ensured social equity through a fair and equal access to irrigation water and land. The principle in the ancient village system was to ensure a yield from the land and that every villager had the right to enjoy the fruits of cultivation. This system was a definite inducement for all in the village to engage in the development of land and the irrigation network. Around the 9th century, with the maturity of the hydraulic civilisation "private rights" to property seem to have been more clearly established. Dry Zone lands, however, were generally held and administered by the village society and absolute ownership of individuals in traditional villages and the issuing of title deeds of land began only at the end of the 19th century. The villagers formed their own village committees and evolved their own codes for the management of water and development of land. This form of land use pattern in Sri Lanka was greatly affected by the policies that followed under Colonial rule.

From about the middle of the 13th century began the de-population of Dry Zone with the break up of the Sinhala kingdom at Polonnaruwa. During the period 1,200-1,500 AD there was a movement and shift of pooulation to the wetter South Western part of the country, to the part adjoining the Dry Zone, called the intermediate zone. By the time the first European colonial power came into contact with Sri Lanka the Wet Zone lowlands had been settled. The three colonial powers, the Portugeese, the Dutch and the British, concerned themselves mainly with agriculture which was beneficial to their trade. Till the 1850's little concern was paid to the welfare and encouragement of traditional agriculture by the British. A change began under Governor Ward (1855-60) who initiated restoration of irrigation works and attempts at rehabilitation of the Dry Zone and his was the first British attempt towards mitigating the neglect of peasant agriculture. However, his programme of irrination activity tended to convert irregularly cultivated land to regular cultivation; rather open new areas to neasant agriculture.

The Crown Lands Encroachment Ordinance of 1840

During British rule in the 19th and 20th centuries, the conditions of the peasantry in Sri Lanka underwent several changes. There were mild attempts at land development and settlement even before this, in the colonial period, when the Dutch restored, some ancient irrigation tanks such as the Amparai Tank in the Eastern Province. However, formal land settlement, specifically settling title to land, was initiated by the British with the enactment of the Crown Lands Encroachment Ordinance No 12 of 1840. The enforcement of law and order and a control of the land as a state owned resource was basic British policy at the time, though positive measures to develop the peasant sector clearly did not figure in this policy. In fact, the introduction of this Ordinance in 1840 meant that the state had begun to interfere with the traditionally owned lands and rights of the peasantry. In terms of this Ordinance all forest, waste, unoccupied or uncultivated lands were presumed to be the property of the Crown until the contray was proved. This presumitive right of the Crown meant that most of the land in the Wet Zone, particularly in the Kandyan areas where land was used as chenas, for village pasture, forests and village expansion purposes was declared Crown Land, Possession of land was granted on the condition that it had been continuously cultivated for 30 years. Land deemed to belong to the crown was disposed off on an "application system" and this system came to be continued as "Land Kachcheris". It is evident that the Ordinance was designed for those who had the capital resources for land development, and particularly in the Central Highlands and Wet Lowlands it made a vital contribution towards the formation of the country's plantation econamy. In the Dry Zone regions of the Northern, North Central and Eastern provinces, however, the effects of this Ordinance were different, These areas were comparatively sparsely populated and when the thousands of acres in these regions came under the Crown not many people felt it then. What in fact happened was that over hundred years later it was possible to make available all these vast extents of once fertile paddy lands for development on a planned basis, though the British never thought of it then.

Generally the peasants in rural Sri Lanka were greatly affected by this policy. Access to land in the villages had been based on tradition through generations, and the right to enjoy the benefits of the land were not dependent upon a title to property. Land which was traditionally cultivated by the villagers through birth right, was now suddenly referred to as crown land. Discontinuity in terms of legal rights for critivation of the lands was a disincentive to cultivate for many presents. This policy not only jeopardized the traditional modes of possession but also created disunity in rural communities.

The ancient village leader the 'Gamarata' was replaced by a person in a newly created position namely Vel Vidane, The 'Gamashahawa' which was the most powerful village level body, eas smothered by the centralized administrative machinery - the kachcheri system. To re-establish the irrigation discipline a complicated machinery of formal tribunals operating under provincial Government Agents was introduced.

The structure of the administration in rural areas was geared to serve the colonial needs of the British, that is, to gain control over the land and people. The set up was rigid and bureaucratic with a thain of command going right down from the top, that is, to the village headman and vel-vidane at the village level. The Government Agent was the chief government official, and he had the power to enforce rules and regulations.

The other measure was resolving the question of irrigation water by enactment of an Ordinance, According to the Irrigation Ordinance No. 9 of 1856 farmers themselves were required to do the earth clearing work and the officials were supposed to supervise each irrigation work. This step, however, was confined to the Ordinance, Instead of providing the necessary facilities and management for the cultivation of land under the irrigation system, it adversely affected the irrigation system in the Dry Zone. The irrigation water which was originelly freely and equitably enjoyed by the villagers, was brought under rigid control under a set of rules and requilations. The reaction to these rules was negligence of their village tanks and irrigation system. The situation had been reported to the Governor, Sir

John Ward by villagers as follows:

'The irrigation system had been used in a destructive manner, there was no reconstruction of any fairns: the number of people forced into a state of misery in a degenerated economy had increased. The ranks were becoming shallow and their capacity to hold water was thus reduced, The peasants themselves had neglected the valuable principles of the past reconstruction and repair of the tank and maintenance of channels, Thay did not maintain tanks and channels in good condition and neither did they co-operate. Frustrated peasants began to out down the tank hunds selfishly in order to ensure a supply of water. And when the location of anicuts was inconveniently located the peasants cut down holes at different places of the bund; nearest to their paddy fields. The whole irrigation system deteriorated" (Baily 1952),

Puddy Cultivation Ordinance of 1857

The next step taken by the government to overcome this situation was the introduction of the Paddy Cultivation Ordinance of 1857 which provided for the take-over by the government of repairs of those systems where restoration was delayed. The most incurred by the government in this connection had to be reimbursed by the villagers in instalments within 10 years. These efforts, however, were not as successful as expected. The peasants rejected this Ordinance and the revenue officers too asked the central government to mudify it, on the grounds that even though restoration work was carried out, the Deasants were unable to repay the expenses in instalments. On the whole, this Ordinance was not relevant to the areas inhabited by poverty stricken peasants. Therefore, in 1873 a new amending Ordinance in terms of which the peasants themselves could select a convenient method of repaying the cost of tank restoration was enacted. But still there was no improvement of conditions in most parts of the dry

Government Experiments in Irrigation Settlement

One of the earliest government experiments in irridation settlement schemes was the Kalawewa settlement in 1887. The British administrators tried to develop this scheme within the capitalist framework of the plantation agriculture in the wet zone. But, there were also other prototypes. According to the sessional paper of 1892 this settlement scheme was carried out as an experiment following the contemporary Indian experience in Punish. The intention behind the project did not quarantee that proper concern was given to local conditions. Attention was for example, not given to the cropping pattern and irrigation practices of the Dry Zone peasants. Apart from the local population, settlers were selected from the people outside the area where there was a surplus of labour. The government provided mem free transport, a means of subsistence for six months, a dwelling house, free seed materials and agricultural implements as aid, Jungle clearing was attempted by employing local labour. Tamils and low country Sinhalese were grouped in batches, With the amergence of this organization various kinds of dis-unity between different racial groups and disputes between colonists and villagers began to appear. Tamils brought down from Jeffna went back, leaving highind the facilities provided to them by the government. With the settlement of low country Sinhaless a type of society alien to the traditional social and economic order emerged. The ultimate result of this social conflict was that many who had reclaimed land in the colony returned to their homes. Others left the area due to sickness, and dissatisfaction from not getting the land free. When the Kalawewa experiment failed, the remaining land was alienated among private applicants according to the Ordinance onantext in 1840; Most of that land went to landlords and the poor peasmus who were genuinely interested in cultivation became their tenants.

It is apparent that there were no genuine efforts at "aided" colonisation on a wide scale during this period. Those with capital were sold the land under the restored tanks, and this gave the peasants no chance of bidding for the land. Some peasants illegally squatted on Crown Land, which influenced the enactment of the Waste Lands Ordinance of 1897.

Government policy and its interest at that time was to expand plantation sector activities which was unswervingly devoted to the mercantillist ideology. Most of the construction work carried out by the British administrators during the 19th century were in some ways connected with upcountry plantation agriculture. A major part of this was on the development of highways between the upcountry and Colombo. Table 1 below shows the limited government expenditure on Dry Zone development.

they required in the Dry Zone to grow food crops. However, this new scheme of the government did not succeed, A project given to the Ceylon Mill Company in 1920 under the Kalawewa scheme failed by 1922. In 1919 about 9 100 acres from Minneriya were made available for cultivation. This too failed within a short period. In 1921 the Low Country Products Association started paddy cultivation under the Kirindi Oya scheme, Despite all the government encouragement this project also ended up in failure. The main reason for the failure of this project was the internal barriers to the new system of development leading to capitalist farming and industrialisation in Sri Lanka, which was a major contradiction of the government's agricultural policy. The agrarian structure and socio-economic characteristics of the rural Sector were not suitable for company based farming

peasants upon the land, development of markets for their produce, raising their standards of living and easing the pressure of population in the congested areas of the Wet Zone. It was around this time that the unique method of settlements, called the "peasant proprietor system" was established. Under this system, first tried out in the Eastern Province, peasants could obtain land for food production on conditions that enabled them to preserve the ownership of the land, But this gave speculators an opportunity of using the peasants to obtain land and the system failed to work satisfactorily and the peasants did not seem to benefit. The outcome was the appointment of a Land Commission in 1925, which submitted its report in 1929. This report proved to be a turning point in aided colonisation and all subsequent settlement projects were primarily based on its findings. (See Box on page 7)

Table 1 PUBLIC EXPENDITURE ON MAJOR PROVINCES OF THE WET ZONE AND DRY ZONE PROVINCES (FIVE YEAR AVERAGE)

Year	Wet Zone Provinces		Dry Zone Prov	inces
	Value (Rs '000)	Percentage	Value (Rs '000)	Percentage
1875-1879	3019	61.8	1094	20.4
1880-1884	1676	65,6	471	18.4
1885-1889	1189	47.9	696	27.3
1890-1894	1936	50.4	793	20.5
1900-1904	2485	55.9	688	16.0
1905-1909	2635	56.0	877	18,8
1910-1914	4254	62.3	953	12.8

Source: Ceylon Blue Books.

During the first World War the export-import economy of Sri Lanka showed signs of collapse, and while the population increased the country faced a serious shortage of food. As a result the special attention of the government was directed to the Dry Zone as the only alternative to solve the food problem. Settlement of people on crown land in the Dry Zone was accelerated. Private entrepreneurs and companies were provided with facilities to obtain as much land as

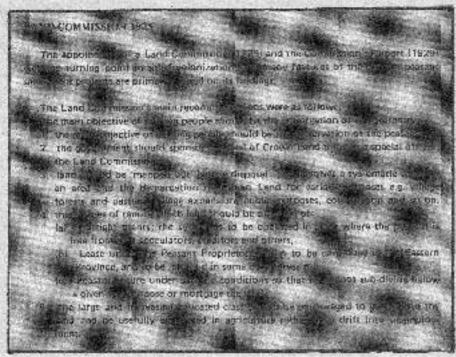
because of the poor infrastructure, lack of transport, inadequate irrigation water, poor management and unsuitable methods adopted without proper planning. It was against this background that the 'state aided' peasant resettlment was strengthened.

The land policy formulated in the 1920's laid the foundations for future settlement projects in Sri Lanka. Around this time settlement policy was directed towards disposal of land on easy terms, establishment of the

Government Sponsored Settlement Programme after the 1930's

During the 1930s the Dry Zone of Sri Lanka became the leading area of the government's development programme and policies. One of the main strategies was the opening up of irrigation settlements.Government sponsored Colonisation Schemes and peasant families were given land by the government under different irrigation schemes. Several economic, social and political factors influenced the acceleration of this development in the 1930's.

- a) The situation within the plantation agriculture sector of the wet zone deteriorated with the rapidly declining trend in export earnings. The wet zone plantation economy which had contributed a large part of the GNP could no longer maintain its population properly and many were simply "pushed" out,
- b) Declining export earnings affected imports which created a severe shortage of food. The rapid increase of population and the growing demand for food stimulated migration to the Dry Zone.
- c) Comprehensive investigation of the government land policies and important recommendations for future changes of the



and and irrigation programmes had been given in the Report of the Land Commission 1929. Suggestions were made to chonge government policies in order to protect the possentry. The recommendation of this report were adopted as a policy guideline by the government.

di in 1901 a separate Ministry called the rainistry of Agriculture and Lands was introduced, and gower of policy formation had been transferred to the first Ceylonese Minister Mr.D.S.Senanayake who headed this Ministry. Since then accompts were made to implement a national development plan which had long term agricultural development as its basic objective.

As a result of the above factors, colonisation programmes in the Dry Zone were strengthened. There was a breakthrough of the colonisation policies in the 1930s and the settlement of people in large irrigation schemes, were implemented to achieve the following objectives:

al Incresse food production, perticularly paddy, by opening up irrigable land.

b) Relieving acquiation pressure of the pensety populated wer zone as well as the southern parts of the country by shifting the landless unemployed acquiation to the dry zone areas in which land and irregation water could be provided.

 c) Provision of employment appartualties to the increasing population;

d) Protection of the persent famours as a place.

el Promotion of syricultural development ingeneral,

These government sponsored colonies experienced problems which were closely linked either directly or indirectly with other interests of the government as well. The preservation of pessantry through settlement of poor peasants was the only alternative available to aliminate various elements of political instability. Particularly after the 1848 'peasant revolt', the British began to adopt a more cautious attitude towards the rural population, Secondly, the settlement programms was the leading source of employment in the non industrial commodity economy in Sri Lanks which was created by the British, Thirdly, in contrast to the plantation sector prafit, Dry Zone agriculture was not attractive for investment and it was only the poor pessants who were able to settle for food production under difficult conditions. In the light of this situation the degrae of achievement of the scoromic objectives were dependent not only on the efficiency and attitudes of the officials but also on the suitability of an administrative machinery to implement the programmes, Moreover. the attainment of these objectives depended on the efficient use of irrigation and land. The policies of colonization were embitious in many respects. However, it appears that this policy was influenced by the desire to promote general peasant welfare and the attention hald to its practical implications or to production requirements was not enough. This was reflected in the selection of settlers and the concern to solve some of the wet zone problems simultaneously. Even though the government's land gollov had at times succeeded in removing some of the traditional feasures of the peasant sector and made proper physical arrangements, it failed to find solutions to the problems of presents in terms of productivity of irrigation water and productivity of labour. The new policy was successful first and foremost in finding lands for some of the landless passants but the procedures followed in cultivation had failed to take stock of the knowledge associated with a modern irrigated sgricultural system.

The main reason for these defects. was the absence of peasants representatives who could participate in discussions about the new policies and their implementation. Those in the higher positions of the administrative hierarchy were invariably drawn from the elite urben sectors of the community and even if they were supposed to have a rural background, their outlook and interests were based in the main ctities, Their awareness of the reality of the rural peasantry was therefore limited. In the aconomic background of the 1930s the demend for land was very acute. But not every person who received land utilized it carefully and efficiently. This is, of course, logical since the basic consideration of the authorities in selecting people was population pressure, indebtedness and landlessness. A majority of the peasants selected for land alienation in the Malay settlement located in the Hambantota district, of the South of Sri Lanka, had their basic qualifications as salt collectors of the Hambentota selterns. They did not have permanent jobs, a knowledge of agriculture and had hardly any interest

in agriculture although they were settled as farmers. In this settlement area there was also land which was owned by Muslims who were not engaged in agriculture but who rented it out to Sinhalese tenants. This happened despite all the regulations regarding transfer or sale of settler's land. Although the government reserved the legal right and power to eject any settler who did not cultivate his land, it was not an easy task to take over such land even if the farmer did not do well. Taking over of the land legally alienated under the peasant proprietor system had to be done through legal bodies which required satisfactory legal proof. It was not possible to take-over any land that was being cultivated by tenant cultivators since the agreement between owner and tenant was informal. The Minister for Agriculture and Lands Mr. D.S. Senanayake was unhappy with the situation. His strong and positive attitude towards the peasant proprietor system appeared to be one of the main obstacles to a fuller transformation of the land to peasants. He suggested that the first batch of settlers be taken as an experiment and that this experience be examined to find out whether those farmers were cultivating successfully rather than alienating all the land at once. If the land use by the first batch was not a success there was no need to repeat this alienation programme experiment. Allottees were to be selected on this basis. However, this method could not provide sufficient evidence for understanding the ability and interest of the farmers. This led to a strong commitment of more productive land to experiments. Secondly, in this type of checks and balance process, if further alienation was postponed or prohibited more capable farmers would also be deprived of land. This policy on the other hand was beneficial to the more rich and progressive farmers rather than the poor which was the main target of the settlement programme. Once the land was alienated there was no way of supervising the cultivation work of the farmers. On the whole a widespread malaria epidemic added to the shortcomings of the settlement programmes during 1930-35.

In 1935 an attempt was made to bring the land use practices into a more systematic control, giving legal sanction to the land development and settlement programme of the government by introducing the Land Development Ordinance No. 19 of 1935. It was possible after the enactment of this Ordinance that the gap between tenants and owners of land could be reduced by providing legal protection to the cultivator. No land owner would have the power to deprive a tenant of his ownership to such land. This would encouraged the poor tenant farmers to continue their cultivation and unemployed people in urban areas also could be settled in agriculture. The process of land development was accelerated because after 1936 land alienation was made not only under the protected tenure, but also under the unprotected tenure system.

The government presumed that the middle class farmers would show considerable interest and made substantial investment in cultivating land. However, a middle class farmer was a privileged person who usually did not earn his living by cultivating land; he was a businessman rather than an agriculturist. When land was given to such a person he became a land owner who tended to have his land cultivated by tenant cultivators. It was very rarely that the middle class applicants cultivated land employing family labour. Looking at this trend, the State Council debates as well as other independent observers focussed attention on the question whether this land policy contributed sufficiently to the development of agriculture as expected and whether the actual achievements were sufficient. The major observation was that the rapidly increasing indebtedness and poverty among the settlers was contrary to the expected goals. This was the main reason why the Minister Mr.D.S.Senanayake was concerned and he pointed to the experience of the peasants in the Dry Zone who had been experiencing numerous hardships for decades; he maintained that they wanted not only the land but also a fully equipped settlement. The heated debates that ensued when the Aided Land Colonization Bill was presented by D.S.Senanayake as Minister of Agriculture in 1939 in the State Council reveals a precedence of politics over economics in the concept of the whole idea.

Yet aided colonisation in the Dry Zone did not make much progress, In the Legislative Council criticism of members like Dr N.M.Perera and Mr Philip Gunawardena was harsh on the entire settlement policy. Whether it was the Minneriya scheme, or the Tabbowa scheme in Puttalam district or Pitigala scheme in the Galle district or Deranagala scheme in the Matara district it was found that the performance of most colonists was disapointing. An Economic Survey of the Ministry of Labour, Industry and Commerce, which carried out a detailed investigation into the Tabbowa colonization scheme maintained that there was no clear idea of what the scheme intended to achieve. In this context it stated "A colonization scheme should, as far as possible, serve one clearly defined objective. A mixture of objects is often fatal to success. We should make sure whether our aim is to increase food production or create a peasantry or simply relieve congestion of population in other areas, or do something for unemployed or ill-employed people of the country".

At Nachchaduwa a project where some families were settled on five acres of paddy land each with all the assistance failed for lack of interest among the settlers. Sickness and inability to repay the cash advance also contributed to the failure of the projects. A number of unassisted less ambitous survived but these could not be considered successful tests of land settlement.

The New Policy in 1939

During the 1930's the involvement of the authorities in land and settlement activity broadened considerably. The take over of the restoration workat a high capital cost-was of course a very clear indication that peasant labour efforts were not deemed good enough But there were all types of interventions such as: the construction of irrigation channels, roads, soil research and the provision of engineering services. Subsidies were granted for jungle clearing and for the procurement of agricultural implements. Credit facilities and seed were also provided by the authorities, Hospitals, sales centres and comperatives were constituted at government exioense.

Following the expansion of welfare measures of the government, the farmars tended to become highly dependent on external assistance to carry out even the activities which they could perform with their own labour. With increasing welfare aid and assistance the settlers began to feel that a Ready Made Colony' with various kinds of facilities should be given to them by the government, Indeed, this entire dolloy came to be characcerized as "spoon-feeding". With the increasing involvement of the Government, the cost of the irrigation settlement schemes increased faster than their henefits. And the heavy involvement was often coupled with a low discipline. The government had infact to employ outside labourers. For example, at the Minipe settlement spherite the government employed about 1600 labourers for langle clearing in the allutment of farmers, but only about 20 of them turned co. Most of them did not know haw to handle an axe (Record of Colonisation Office 1946).

According to several estimates (B.H., Farmer 1957. The Agricultural Plan 1958) the Government spant about Rs. 12,000/= to 15,000/= to serile one family in a state sponsored colonisation etheme. When the linancial aid.

fur housing and other forms of assistance were taken into consideration the government's cost for a settler family was about Rs.25,000/-. But the enturn from these schemes was not at all satisfactory. As a whole the output ratio of the colonisation schemes was only 17:1. According to the Gal Ova project evaluation report fone of the largest columisation projects with the highest government investment) capital outlay was unly about 3 percent. Low efficiency of water use was considered to be the main cause for the low return in the sovernment sponsored settlement schemes, Irrigation duty ranged hat ween 16 to 20 ac.ft, This was much higher than the actual requirement, which ranges from 3 ac.ft. to 6 ac.ft.

In 1939 the report on 'Aided Land Culonisation' presented to the Legislative Council by the Minister of Agriculture and Lands recommended:

- that farm size should be sufficient to make the settler economically independent,
- 2) specific planning of cultivation,
- a liberal system of assistance,
- 4) systematic planning of projects. Nine settlement projects covering over 14,000 acres of paddy land were established during the period 1835-1947.

The period 1948 to 1955 brought an accelerated disposal of lend under the Land Development Ordinance of 1935. Over 60,000 acres of rice land were given to about 16,500 settlers. The scheme of assistance did not change. Farm size was reduced in 1963 to three acres paddy land and two acres of highland. The reasons for the reduction in farm size from five acres paddy land and three acres of highland were that:

- In tamily lebour was not sufficient for the optimum cultivation of angularms,
- large number of persons could be given the limited resource of develocal land.

The most important event that took place in this period was the development of the Gal Dya Project. It was designed for:

- the agricultural development of 42,000 acres (32,000 acres in paddy land and 10,000 acres in sugar cane)
- 21 flood protection, and
- provision of domestic water to over 20,000 farm families.

By 1985 the project had established over 30 villages and about 12,000 families in both village expansion and major colonisation areas. Farm size was four acres of paddy land and three acres of highland which was later reduced to three acres of paddy land and two acres highland.

Settlement Schemes after Independence in 1948

Inspite of several changes in the administrative set-up the main features of the sottlement schemes in Sri Lanka were almost the same even after Independance. In the main the welfare priented approach continued, Soth the administrators and the people began to enjoy their newly won national freedom during the 1950's, and it was therefore difficult to limit the privileges and facilities given to the settlers during the colonial time. The dynamics of the situation rather underpinned a strengthening of the welfare programmes. The government's generosity was especially extended to health and education aspects. Massive anti-malaria campaigns helped to sliminate one of the recurrent plagues of the dry zone. However, the administrative apparatus was weak and co-ordination was tacking, The system of central plannning end sisted merely of a synthesis of sectoral investment programmes for agriculourse, education, transport and communication. There was no attempt either to study the projects in required detail or to co-ordinate them for the purpose of overall allocation of resources. There were only such general principles that high priority should be given to Investments that tostered the development of the sparsely populated dry zone of the country. Finally, as a result of the national hastch programme

the population in the country began to increase more rapidly than ever before.

The situation was thus very complicated with three interlaced characteristics: an official policy which had to be welfare oriented and oriented towards a geographical area which was to a large extent previously underdeveloped and underpopulated but which was to accommodate a large number of immigrants and a growing population.

In such a situation it was natural that there should be unwanted deviations. The most obvious side-effect included encroachment of crown land, subdivision of allotments and tenurial practices such as lease, share cultivation etc. The sub-division, sale mortage or lease of land was prohibited, But the legal aspects did not prevent the settlers from disposing their allotments. Especially among the children such division of the allotment was common. The cultivators who subdivided their allotments had difficulties in obtaining credit from institutional sources and were therefore dependent on non-institutional sources. As a result leasing of paddy land on the basis of mutual understanding between the cultivator and the person who was preapared to provide the finance became a common feature of the settlements. Finally, the actual holder of the land became the tenant on his own land and the operational landlordship was taken over by somebody else. This gave rise to an inequitable distribution of land and wealth within the settlement schemes. One reason for this illegal development was that the alienation process did not move fast enough to meet the increasing demand for land and the delay in alienation diminished the interest of the peasant in obtaining land in the "correct" way. When they could not lease any land and when there was no other means of livelihood the peasants rather than wait for government to alienate land, started to enroach on crown land. Thus by 1956 an extent of land totalling 30,000 acres had been encroached on by 28,000 people, (Sessional Paper 1958). In some colonisation schemes the total encroached extents were higher than the total extents actually alienated to the settlers. The most crucial issue arising from this process was the serious problem of the availability and supply of irrigation water in the settlements. Water disputes increased as a result of the misuse of irrigation water for encroached land and it created social disharmony. Use of irrigation water for an additional extent, scarcity and wastage, evaporation and run-off losses and lack of propoer management all affected the storage capacity and efficiency of performance of the irrigation system.

The enactment of the Paddy Lands Act in 1958 was one of the popular and important remedial steps taken by the Government to avoid many of the problems listed above. With this Act. small farmers were not only assured of a greater security of tenure and a more equitable share of production but they were for the first time in settlement history, after colonial rule, provided with an organisation to promote their interest. One of the objectives of this provision was to ensure the rights to land cultivated by tenant cultivators. The ejectment of a tenant cultivator was made a punishable offence. Tenurial rights of the ejected tenant cultivators, if any, had to be resorted to.

A second step was the abolition of the monopolistic right of the land owner to reduce or increase the land rent in a manner deterimental to the tenant cultivator at any time. In terms of this provision the tenant cultivator was required to pay to the land-owner a fixed rent of only 1/4 of the total production or 15 bushels of paddy per acre, whichever was less.

These measures covering security of tenure and the regulation of land rent were not successfully implemented as anticipated by this Act. Ande (share) cultivation, indirect lease of land etc. even today remain important features of the tenurial system in the Dry Zone. Even after the Paddy Lands Act, the "Ande" system was practised as before but in hidden forms in order to evade the law. The most fundamental defect of the Paddy Lands Act now appears to be the failure to recognize the strength of the traditional bonds that so closely tied the tenant cultivator to his landlord. It was therefore inevitable that tenant cultivators would not co-operate to implement the law, as they had a fear of losing the cultivation under the Ande system.

Under this Act an attempt was also

made to introduce a village level body called the "Cultivation Committee", based on ancient villagers' own organisations, such as Gamsabhawas. This Committee was supposed to consist of representatives of all classes of cultivators for the purpose of attending to all matters of cultivation including planning, construction and maintenance of irrigation works and other village work. The Committee was given the power to investigate land disputes, the right to prosecute in case of cultivation offences and the authority to promulgate and enforce irrigation regulations and the annual cultivation calendar. Theoretically, members of the Committee had to be elected from all social strata, but in practice the involvement of poor farmers and tenant cultivators was very insignificant. Since the tenant cultivators often had a fear of being ousted by their patrons they were constrained from opposing the election of the landed gentry to positions of office in the cultivation committee. In many cases former vel vidanes (Irrigation Headman) (who were referred to as a "Colonial anachronism") and their subordinates continued to hold key positions in the Committees.

The disputes regarding irrigation, land and other issues were supposed to be settled by cultivation committees in the first place. Therefore, wealthy landlords who were in the Committee, determined to their own advantage and there was little chance to oppose such decisions.

Prior to the setting up of Cultivation Committees, the regulation of cultivation and control of water were carried out under the Irrigation Ordi nance, which laid down the duties and obligations of every cultivator together with disciplinary procedures to ensure the observance of those rules. With the Introduction of the cultivation commilitee system autivation discipline and maintenance of irrigation works suffered a deterioration. Legal power of the Committee was poor bacause in many cases action taken by the Committee was not accepted due to the problem of legislation. On the other hand this Committee could not he legally constituted because of the non-cooperation of the cultivators,

Secondly, although the Committees. had been Turmed disciplinary action for non-performance was still enforcable only under the Irrigation Ordinance. The Committee could not take action against cultivators. Therefore the misuse and mis-management of irtigation water and land could not be controlled as expected. The defects of the village level administration bodies also represented the defects of the entire administrative machinery. With increasing departmentalisation not only was the Government Agent's authority progressively erocled but also the officials who headed the district branches of large government departments were inclined to enforce their Independence from the Government Agent's Office and establish their Tines of communication direct with mely departmental heads, it was difficuit to maintain a satisfactory discioline on irrigation and land at the settlement level mainly due to the lack of co-ordination between the officials of the various departments, The Department of Agriculture was responsible for agricultural extension. The Land Commissioner's Department was responsible for administration of crown land and its disposal for agriculture. Agricultural inputs were handied by the Department of Co-operatives. The Agrarian Services Deportment controlled and administered the

Paddy Lands Act and cultivation committees. Administration and control of irrigation networks was the responsibility of the Irrigation Department. The impact of departmentalisation at the settlement level was inefficiency and a smoothening of responsibilities, which were passed on to others and therefore the Departments blamed each other. Moreover, this system favoured corruption since officials were in a position to divert complaints and punishments.

The result of Government's attempts at colonisation within the above administrative set up was to provide irrigation water and land to the people together with other aid and assistance; but not to promote the skills of the peasant or the traditional irrigation and cultivation practices. This system left settlers with no choice but to cultivate paddy with irrigation water according to their own traditions and cultivation practices.

No provision was made for rearing animals in the large Colonisation Schemes, as complementary to their paddy cultivation. This resulted in the settlers losing their draught power along with the nutritionally valuable supplementary diets, such as milk and eggs. This situation indirectly or directly restricted the promotion of secondary activities within their settlements.

Inadequate pasture within the sectlement areas caused problems for animal husbandry. Rearing of cattle was difficult at least' for cultivation purposes in the settlement. Settlers were ulten forced to drive their cattle into the jungle due to difficulties in maintenance. Consequently there was an acute shortage of cattle and buffaloes during time of cultivation in the settlement areas, particularly since some of the animals driven into the jungle turned wild.

When the irrigable land was made available to the settler his main intentium was to cultivate paddy leven though the land was not suitable) because of the marketability, income stability and security of paddy as com-

pared to other crops. Secondly highland cultivation with rale water and subsidiary food crops cultivation in the irrigable lands were totally neglected by the planners. Furthermore the identification of crop combinations. careful examination of syallable technology and other facilities, required guidance on relative profitebility of prowing different types of crops,ensuring availability of inputs, provisions and markets were the most important measures required in the concentrated efforts supposed to be taken by Government planners and extension officlais; but an progressed plan of action of this nature was not forthcoming.

The possession of a paddy allotment was a matter of prestige for a farmer and was supposed to reflect his standard of living. Much of the government assistance and subsidies were also given to the paddy cultivators and colonisation schemes were organised accordingly. Considering the low level of income and the labour requirements to cultivate between 3-5 acres of land a settler was able to cultivate only paddy since it required less labour and low investment compared to other crops.

Identification of the size of an allotment as a viable economic unit was a crucial problem of the settlement process. An allotment consisted of 5 scres of paddy land and 3 acres of highland in earlier settlement schemes. But this was ton large for most settler families to handle alone. Therefore, settlers were compelled to extensively cultivate the land, as well as lease out the land or give it on ande (share) cultivation or sub-divide it among their children, in 1955 the standard size of the allotment was reduced to three acres of paddy land and, two acres of highland. By reducing the size of alintments the government was able to reduce the cost per settler and provide land to more people. At the same time, settlers could earn? the same income without using hired labour or machinery by intensive cultivation methods, in the 1960's an allotment -size was

reduced further to two acres of low land and one acre of highland. The main objective of this step was to provide allotments (whether it was sufficient or not) to the increasing population of the country. In the early 1970's the size was changed again because two acres of paddy allotment was not sufficient for a settler family.

However, all these measures were not sufficient to promote the cultivation practices and irrigation water use of the settlers. By reducing the size of allotment intensive cultivation was achieved to a certain extent; but the cropping pattern had not changed. This was mainly due to lack of physical and agricultural planning. While the cost of irrigation increased rapidly the management of such costly irrigation water remained a crucial problem of the settlement. Even now the engineering and technical aspects of the irrigation and settlement schemes play a dominat role while the agriculture and social aspects are given low priority. The land which could receive irrigation water from channels is being considered as paddy land whether the soil suitable or not. Various studies have found that insufficient attention is given to the quality of soil, local beliefs, land use and irrigation practices; while the long experience in settlement policies seems to be disregarded.

After 1956 a form of social revolution which gave the people greater confidence to participate in the political system also resulted in a demand for more resources. Land was the resource most in demand and the need for land now was much greater than in the earlier period. In the late 1950's and early 1960's the general view was that disposal of land should be further accelerated although the limiting factors were the lack of capital and manpower for the development of land. To meet this situation a major change was made in the timing of the arrival of calonists to the project. Under the new system the settlers participated in the construction work and earned wages; in areas with a shortage of labour for construction of irrigation works and canal development, the settlers filled in the gap; the colonists were not only more acclamatised to their new environment (before bringing in their families) but also had a greater sense of participation and ownership in the projects; the new system of land disposal minimised illegal squatting in irrigation projects. There was rapid disposal of land; over 35,000 settlers benefitted under this scheme covering an extent of over 90,000 acres of paddy land.

During the 1960s and 1970s the Government in Sri Lanka further emphasised land settlement as the major strategy for creating employment opportunities for the unemployed poor segment of the rural population. The two leading political parties that came into power over this period consettlement sidered land licy as a stabilizer for their own power. While doing so they had to struggle with deep problems in achieving both economic and political goals at the same time. From the 1960s settlement strategy has been directed towards import substitution, Farmers were encouraged by being provided a guaranteed price for paddy a greater credit supply, introduction of high yielding varieties and fertilizer subsidies. There was an impact of these incentives on average paddy production. In major irrigation settlements such as Uda

Walawe, Parakrama Samudra etc. paddy production increased beyond the national average. In addition to the usual settlement programme, a concept of special projects was also adopted to increase food production. However, those projects showed progress due to a higher concentration of assistance and foreign aid support. With the introduction of the new technology package a large number of intermediaries began to play a leading role at the grass root level because market opportunities were increasing for the sale of inputs and purchasing of farm products.

From the beginning of the 1970's however, economic problems began to increase much faster than the achievement of land settlement and development.

Of a 4.1 million work force in the country about 0,55 million were estimated to be unemployed. Among the unemployed population 67 percent were male and 33 percent female, More than 75 percent of those unemployed people were in the rural sector. The employment opportunities in the urban sector were greatly limited and about 14,000 graduates and 112,000 G.C.E. A/L qualified youth were without jobs because the Urban Sector could not absorb unemployed people due to non-industrial development tendencies in the country. In 1970 and

-), to maximise production through improved methods of cultivation,
- to strengthen institutional arrangements in respect of marketing, credit and farm
 management;
- 3. to rehabilitate irrigation facilities for better production, and
- to encourage development whereby the community would grow into a self-sustained one.

A pilot project implementing the package programme was first initiated at the Elahars Colonisation project in 1967, A farm management survey carried out in this project in 1970/71 Maha) had revealed that the yield of rice per acre had increased by over 50 per cent of the figure in 1968, in 1972 the yield per acre at Elahara had increased further to 79 bushels. By 1975 the package programme was extended to over 22 colonization projects which were referred to as special projects.

A package programme of integrated development to maximise production was recommended by an I.B.R.D./F.A.O. mission that visited Sri Lanks in 1966. The objects of this programme were:

1971 the connomy was expected to grow at a reasonable rate to absorb a considerable proportion of the new labour force. But the growth rate kept falling from 4.1 percent in 1970 to 2.9 percent in 1971. The price of imported goods increased by about 33 percent and most of those imports were assential food items.

The growing loud crisis was further accentuated by all those factors, with

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The Five Year Plan of 1972 78 recognised that paddy still remained the crop with the largest potential for import-substitution. Paddy, therefore, received very high priority in this Plantoo, but the Plan emphasised that the modernisation of peasant farming cannot be accomplished on the basis of mona-crop agriculture".

The five year Plan thus included a programme of assistance and extention for the cultivation of subsidiary food crops which upto then was a neglected

area in the agricultural sector. Accordingly a considerable part of the agricultural land was to be used for the growing of such crops, However an important place was assigned in the Plan to paddy cultivation which still could play a vital role in import substitution. One major feature of the Plan was the very high investment on irrigation, About 200,000 acres of new land area which could be provided with irrigation facilities through irrigation schemes such as Mahaweli, Walawe and Lunugam Vehera were expected to be developed during the Plan period (1972 - 1976). In addition, irrigation facilities were to be provided to 200,000 acres of land then under cultivation. The government, however, did not expect this to be used entirely for paddy cultivation.

As shown in Table 2 a new land area of about 300,000 acres was to be developed and provided with irrigation facilities. The question was whether such a vast extent of land could be developed and made suitable for settlement and cultivation within four or five years. The Government, under its action programme, however, made an attempt to grow new crops, and expand particulary the programme of growing crops like chillies and onions. But there was greater social and economic attraction to rice production for a variety of reasons such as the insufficient progress made in crop diversification and crop rotation and other skills, lack of organization in production and marketing, unstable incomes and inadequate provision of facilities to meet the future aspirations of smallholders. About 80 percent of the increased paddy production during the Plan period was estimated to be received from the land already under cultivation and the balance from 100, 000 acres of paddyland expected to be developed for paddy cultivation. Settlement schemes of the Dry Zone were to have over 75 percent of their total extent of land made suitable for paddy cultivation. However, at the last stages of the Plan period it was found that achievements were far below the expected goals.

The programme took three years to get off the ground although the development of 300,000 acres of new land was expected to be completed within five years from 1970.

The use of paddy land was unsatisfactory after 1970 due to unfavourable climatic conditions. In 1972 of the land capable of being made suitable for paddy cultivation in the Dry Zone only 72 percent and 22 percent was cultivated with paddy in the Maha and Yala seasons, respectively. Of this too, 46,000 acres during Maha season and 9,000 acres during Yala were subject to crop failures. The fact is that though the land area under cultivation had increased during 1973/74, there had not been any increase

in real production as shown in the Table. Compared with the previous year 1972/73, paddy production in the Dry Zone during 1973/74 had declined by 9.3 million bushels. The position in 1974/75 was worse, Only 57 percent of the cultivable land could be cultivated due to severe drought and unfavourable climatic conditions. Of this too, no harvest could be collected from 163,000 acres due to crop failures. On the whole paddy production in Sri Lanka decreased by 530 million bushels, (Central Bank Report, 1975); which was a drop of 57% and 16% respectively in Maha and Yala seasons. The fact that this deterioration was observed throughout the country could be seen from the ex-

Table 2
UTILIZATION OF IRRIGABLE PADDY LAND

		Aswed- dumized (*000)	Cultivá- ted (°000)	Harves- ted ('000)	Production Acreage ('000)
		1	2	3	4
1972/73	Maha	380	349	327	11,768
Wet Zon	e Yala	380	272	262	8,978
Dist,	TOTAL	760	621	589	20,746
Dry Zon	e Maha	864	624	578	41,605
Dist,	Yala	864	190	181	7,567
	TOTAL	1,728	814	750	49,172
Other	Maha	250	216	189	6,151
Dist.	Yala	250	151	131	4,347
	TOTAL	500	367	320	10,498
1973/74	Maha	381	364	360	14,590
Wet Zon	e Yala	381	306	294	10,470
Dist,	TOTAL	762	670	654	25,084
Dry Zon	e Maha	866	724	708	30,860
Dist.	Yala	866	231	226	9,002
	TOTAL	1,732	955	934	39,862
Other	Maha	250	226	220	7,180
Dist.	Yala	250	171	161	5,213
	TOTAL	500	397	381	12,393
1974/75	Maha	388	369	360	14,273
Wet Zon		388	312	301	9,547
Dist,	TOTAL	776	681	661	23,820
Dry Zon	e Maha	878	540	377	16,127
Dist.	Yala	878	168	164	6,913
Other	Maha	235	187	138	4,325
Dist.	Yala	255	143	153	4,412

Source: Census & Statistics

Table 3

NEW LAND TO BE DEVELOPED UNDER NEW IRRIGATION PROJECTS

1972 - 1976

New Land Acrosspe
80,000
50,000
AND A STATE OF THE PARTY OF THE
77,000
26,000
36,000
269,100

Source: Five Year Plan 1972 - 1976

tents of land cultivated in the Wat and Intermediate Zone (See Table) The dramatic drop in paddy cultivation caused a ser-back in economic growth. Thus it is clear that the growth rare during the five year period of 1971-1975 reached low levels when compared with the minimum growth rate of 8 percent expected in the Five year Plan. The everage growth rate during the 5 year period after 1970 was 2.4% compared with an average rate of 5.8. percent during the 5 years preceding 1970. The Five Year Plan based its high growth rates on development levels reached during years free of monomic disasters and hopes of increased production in significant sectors such as agriculture. Although contemporary observers had expressed doubts about these targets.

For instance, an ILO study team had their doubts about raising the level of rice production to 8 percent in the Five Year Plan, in the light of an average rate of a 4 percent increase achieved through a period of 20 years. They also pointed out that it was more dangerous to place such high hopes on the yield level of 1970 which was fattered by the casual rainfall of the Maha monsoon. Their estimate was an annual rate of increase of production of only 4.5 percent (ILO, 1971). It was difficult to reach men this level in 1970s.

The most serious problems that arms from the above adverse economic condition in the 1970s was decreasing depactly of settled farmers to carry out intensive farming with

muderrn technology due to heavy indebtedness and lack of credit facilities, Various credit schemes were tried out by the State banks but they failed to liberate the farmer forth the original private money lenders and village tra ders. A system of granting credit in a more generous way to meet the production dist without supervision camp into operation. Since their output was nut adequate to repay those loans, the farmers horrowed money which was spent no inappropriate techniques. consumption needs, weddings and renayments of village money landors. On several occasions the loan defaults were re-scheduled as a political gesture. and this lod to further detault in ropayments and as a result the lending capacity of the hanks began to decrease. Guinequently it was not only the defaulters but also their innocent neighbours who were deprived of institutional credit. Good farmers were reluctant to be guarantors for others fearing that they also would not be able to obtain loans. Those who were in need of credit were in search of guarantors. When it was difficult to obtain credit from banks to meet the high costs of larming these farmers had no alternative but depend on private sources of tinance. The only way out for them was either the mortgage or leasing out of their plots of land which created a gap between real ownership and nominal or operational ownership of land.

A resolution on land policy took place in 1972 with the enactment of the Land Reform Law No. 1 of 1972.

This process continued in 1973 with the State Land (Special Provisional Sales Act and in 1975 with the Land Reform Law Amendment Act. The objects these reforms had been to impase well determined cellings on land. awnership in order to improve the legal and economic status of settlers and thereby to distribute land among landless villegers and radgos the inequalities in land ownership and income distribution. These expectations were fulfilled to some extent in regard to tea, pubber and coconut plantations in the Wet Zone but the results achieved in regard to peddy lands in the Dry Zone were limited. This reform in fact affected mainly the up country plantations which had only about 18%. of the total land area and 20% of the total population in the country. Further, the paddy lands former only 3% of the total extent of land vested in the Land Refurms Commission by the and of 1974. This amounted to 16,270 acres. These reforms were not an adeuquate remedy for resolving the problems connected with paddy lands in an area which had nearly B2% of the total population.

De Vrony and Shanmuganathare who reviewed the Dry Zone resettlement policy maintained that these reforms were unly an alternative land reform which were inspired by class interest on the part of the policy makers to preserve existing property relations. It is also significant to note that a re-distribution land reform was not present in the political manifesto of any party in Sri Lanka. In other words, land settlement policy could be used to avoid or postpone radical land reform.

In the late 1970s, diverting Maha well waters into the Dry Zone of Sri Lanka and the settlement of people became the major rural development activity of the Government, Under the first stage of this irrigation scheme which was the largest concerned in Sri Lanka about 6000 families were expected to be settled. This area consists

Michel De Vrsey and N. Shanmugater ham in a study [1984] on "Pessant Resettlement in Shi Lanka". of several villages within System H 1 under the Kalawewa. By 1976, the farmers were able to cultivate only a small part of the irrigable lands during the Yala season About three quarter of the cultivated lands were subject to crop failures due to lack of water during the time of cultivation. This was hecause the mater level of the Mahaweh river reached its lowest due to the severe drought gripping the entire country at the time. The farmers were discouraged because their hopes in a stable supply of water were shattered.

Present problems of land settlement

After the new devernment came into power in 1977 land settlement in Sri Lanka was undertaken on a messiva scale under the Accelerated Mahaweti Development Programme. During five decades of peasant re-settlement in the country only about 100,000 families had been settled whereas under the Mahaweli Programme Accelerated about 250,000 families were expected to be settled within the short span of six years. This government saw a large scale family farm settlement programme as an effective solution to the problems of increasing poverty, unemployment and landlessness in the rural sector. The settlement plenners of the Mahaweli Scheme maintain that the new settlement policy has been coulved after detailed study and pilot project experiments. While it has been onrighed by the past experiences in colonization, care has been taken to avoid the mistakes of the past. But the weakness of the Mahaweli settlement that are being discovered are not much different from the major weaknesses of the past settlements.

Volume IV Nos 8 1 9, Nov/Dec 1978 and Volume XI Nos 4 1 5 July/Aug 1985 of our Connomic Review gives more petalled information on various aspect of the Accelerated Mehawari Programme. Our connects with this issue is in provide an exercise on the current problems of settlement.

This was mainly due to the rephcaring of an unaftered land settlement policy of providing small parcels of land to the poor possant families. However, a dominant feature of the strategy of land sattlement and rural intervention under the Mahaweli Schame it seems has, emerged which entails the establishment of an institutional structure simed at organizing and closely supervising a system of small scale production units based on a new type of family farming. Some research studies have reported that this has frequently entailed the setting up of a settlement administration with large bureautracies and a massive ininction at foreign aid and tachnical assistance leading to the increasing enrapsulation of family farms and to the erosion of independent decision making in the field of agricultural production. The government has set up a setelement authority to co-ordinate the system of services such as credit, fortilizer and marketing, and to control access to basic resources (eg. land and water). Based on the assumptions of these authorities the settlers cannot be allowed to produce for themselves. They have to produce a marketable surplus to cover the beavy investment in these areas by using modern technology and inputs and diversifying frum paddy to cash crops. This could best he achieved according to settlement planners by a one hecters afforment which was theoretically considered as an economic unit for a tamily to work with tamily labour,

But, in reality this is not what is actually happening in the Mahaweli Settlement, according to many observations. In fact the size of allotment was subjected to heared debates in the past and even today the alimation of a small parcels of one hactars to a family has led to a serious problem among the young people who belong to the second generation in settlement areas. The second generation in settlement already exists through out the settled Mahaweli areas. Unless new job opportunities are created suun the first generation settlers will be compelled to do

what settlers have done in the older settlement schemes. Maintaining their day to day subsistence living may be a rational decision but it might have adverse development implications due to increased emphasis on staple crop production for subsistence purposes, reduced sales, lower not income and less employment generation over the long term.

Land rettlement is generally meant for the poorer segment of the rural population. However, their thoice is not to remain poor; their efforts have to be substantially advanced by the provernment policies with regard to land, However, one of the weakness of settlement policy was that the sconomir viability of small allotments ten ded to be judged on the advanced urhan based assumptions rather than the social adoptability and capability of poor peasants. Two leading experts on Third World settlement involved in evaluation and monitoring Mahaweli Settlement implications revealed that many of the assumptions on the small family farm in the Mahaweli Scheme were incorrect. The other argument is that the economic viability of a small farm does not depend very much on its size but rather on the improvement of adoptability and capability of poor farmers through well organised training, extension, community develupment and other input deliveries However, in the new settlements the planned social change is increasingly directed by monthly wage earning urban based officials who are more exposed to urban values. They perform duties rather than effectively work with weaker groups. This often leads to an unequal access to the common services and raduces the capabillties of settlers. A recent expert study on the settlement problems in the Mahaweli Settlement described these conditions of new settlors as follows:

The major conclusion of our present assessment is that not incomes of the large majority of settlers households in even the oldest Mohaweli Settlement areas have not yet moved beyond the susbistence level, Indeed in a significant number of cases in both Systems 'II' and Zone 2 of System 'I'' living standards actually appear to have deopped at the very time in the sattlement process that they should be going up, if the settlement component is to ostalyze development.....

Less than 20 percent of the sestlers in the project area have been able to complete the construction of their permanent dwellings. Many fatmers defaulted on low interest government loans primarily due to crop failures in successive drought years, making their incligible for future loans".

These observations indicate the possibilities for discontent with the neasant proprietor system which is omerging under the present land sertlement polley. The situation is such that in many press sortlers do not have the ability, knowledge and capacity to own and improve their land. They lack good living conditions. self respect and a say on public questions. As a result of such factors the possibility of their getting organised as a group and mobilising opinion in encir fewour is limited among these poorer settlers. However, their prulilogis ore being taken into coasideration and new attempts are being made to improve their conditions.

This kind of policy involved slight changes of the administrative system, without any alteration in the basic approach. This was a farely consistem feature of the land Settlement policy.

It has been argued that this policy of sertlement management has involved only alight changes in the administrative system, without altering the basic approach of the existing policy. This basic approach has been maintained since the 1930's, with only slight modifications. De Viccoy and Shannangarathan in their study (1984)

have explained these trends of recent land settlement in the country as follows:

"In the light of these theoretical considerations, what lessons can be drawn from our empirical survey? Three features can be pointed out.

I. The study reveals an increase in the importance of commodity production for trade and of monetization, glong with a relative decrease in Importance both in demostic and in collective goods the narrowing of officers of the Wellare State).

- It also confirms the idea that an independent producers system is anyiable. Differences in performances among farmers leads to ircome discrepancies and to a split between well-performing farmers and those who are bankrupt or on the brink of bankruptey.
- However, despite this monetization and the failure to maintain the conditions for a stable independent producer system, no significant dovelopment of the wage relationship has emerged.

These two researchers make the fullowing comment regarding the absence of development of a real wage relationship in this situation, "In agriculture phases of peak activity are followed by planes of waiting. This makes agriculture andir for the utilization of regular wage labour, since during the peak periods the required amount of labour exceeds the normal length of labour time while between peaks it would be quite low. Therefore, the utilization of acasonal wage Inhorar seems spore adequate but this implies that such wage-tabourers do not have the full status of wage-carnors. Porthermore, the structure of cirautation within which the agricultural production is integrated, makes the introduction of a full wage relationship. unnecessary. Farmers who are dispersed, numerous and who control only a anall amount of money, face a small number of big intermediaries. Market power usually leans strongly in favour of the latter, They have no interest in changing this structure and in introducing the wage relationship. The prevalling situation is more benefitting to them for two reasons. On the one hand, through circulation of profits, they can obtain the same or greater monetary surplus than they would get front an exploitation profit in a wage adationship. On the other hand, they do not have to bear the entrepreneurial risk which is entirely supported by

The situation in the resettlements ruises certain issues that are of rolevance to the problematic of agrerian transition is an economy that has gone

through a very long process of commoditization under conditions of underdayslooment. Pessent resettlement has been going on in Sri Lanks for over lifty years. The state has been the main agent to the creation of resettlement achaines. With time the scale of stafe investment has also growing But when we look back at the whole experience it looks like an endless exercise in extending petty commodity production which has neither given way to lurge scale capitalist farming nor solved the problems of landlessness and rural poverty it set out to tackle.

This has brought about a physical limit to the extension of peasant resettlement. After the much publicised Mahawe's project, Sri Lanka will not be left with any major river basins or vast stretches of uncultivated but potentially arable land for future devotopment. But landlessness and rural poverty will remain.

In answering the question of what went wrong, their biterpretation is that: "It was the belief of the colley makers that the solution to rural poverty and landleness was to resettle poor and landless peasants on lands developed by the State. But as Sri Lanks sportouches the extensive marein of land for resettlement the probtem remains as intractable as ever. The lesson is that resettlement by itself is no solution to landiosaness. The easy explanation for the situation is population explosion, but that explanation could puly further confound the misconception that the solution to the problem is land, Population growth within the given context would cortainly compound the problem but connot be the cause in any way.

The causes of rural poverty and landlessness are to be found in the basically untransformed structures that have parportiated underdevelopment. The strategy of land colonization has failed as a solution to the problem of landlessness and rural poverty not through its two demonits alone. The primary cause of the problem lies in the instillty of Sri Lanke's economy to generate a capitalist stynamic of inclustrial transformation. The strategy of land actilement is not only a pro-

duct but a victim of this incapacity which is the final result of the political and economic actions of the class/ classes which wield power".

Contrary to what the above analysis advocates those responsible for planning and implementation of settlement policies have given greater emphasis to their original goal of regenerating a self-sustained and independent family farm economy through the equitable distribution of land, water and other resources. The success of this programme is being proved through statistics on the progress of land development and settlement. According to this data more and more people are becoming proprietors of land and overall production is on the increase. Social unrest in urban areas and other overpopulated districts had also been reduced by settling more people on the land. Therefore to this extent land settlement has had an impact on Sri Lanka's society and economy. However, contrary to the popular notion of egalitarianism which was expected from the policy measures and legal protection introduced over the last five decades, growing inequalities leading to social differentiation has become more apparent in recent settlements. This aspect too is reported on in the study by Michal De Veroy and N.Shanmuganathan as follows:

"The leagalistic approach ignores certain basic laws that operate due to inequalities in physical, financial and intellectual resources within a community.

In this instance the concrete manifestation of those inequalities, even when land is assumed to be equal, are found in the individual economic strength, access to water and other inputs and institutional sources of credit, marketing and technical knowhow among the settlers. The process is more clearly present in the colonization schemes in the entire country. The upper levels of those communities include members of non-settler origin who have usurped land by illegal means. Thus the law has become a dead letter and statistics of size and ownership based on official documents are bound to be misleading".

Another viewpoint specific to settlers in the Mahaweli project was

put out by Thomas Krimmel in his study on 'Social Differentiation and Peasant Colonization', where he quotes Kapila Wimaladhama, the former Additional General Manager of the M.D.B. (Settlements and Operations), who portraying the image of the future Mahaweli society wrote:

"with the progress of time, Mahawell settlements are expected to advance from traditional to modern society, from subsistence to commercial farming, from bureaucratic to participatory management. The Mahaweli settlement policy aims at an elimination of economic disparities through an egalitarian land tenure and an uniform ownership pattern. Mahaweli settlers are aided by the state to become affluent farmers relative to their fellow-men elsewhere in the island".

These statements are an expression of the expectations deriving from basic theories of the dominating ideas on settlement policy and settlement planning current at the time. Earlier in this discussion attention was drawn to how inequalities in peasant 'colonization schemes tend to emerge as a consequence of the current design of such schemes. Typically, these schemes are based on the principles of modern farming relying on new technology, an 80 percent probability of success in irrigated agriculture, and on small peasant freeholdings. The former two factors are apparently not possible because of the high costs involved in implementing such projects. The third factor corresponds to the political commitment of most Third World governments to encourage small producers to become modern agricultural enterpreneurs.

A fact not often taken into consideration is that a combination of factors such as those applied to these peasant colonization schemes lacks economic and social viability. Agricultural production in these schemes, when the new technology can be supplemented by irrigation water, has in fact become highly profitable. However, this applies only to the few who can afford

to participate in this kind of agricultural production. The majority of the small producers cannot bear the risk involved in such a high input/highyielding technology that has to be employed in order to comply with the requirements of irrigated agriculture. The risk of production is further emphasized by the rate of success calculated for the irrigation system. It is evident that a theoretical 80 percent success does not necessarily secure large profits for every settler in four out of five years. Rather, it means that, on the whole, the total output in the project area will prove the scheme to be a success. As can be seen from the performances at the individual farm level, this pattern varies considerably from one settler to another. The disaggregated analysis highlighted that there are always a few who manage to reap profits, no matter whether the whole are suffers a drought or produces a bumper harvest. Simultaneously, there are also those who always lose or at least profit much less-not enough to keep on sustaining themselves. This is because they are either unable to economize on costs of production or because they are unable to achieve profitable yields. Of course, this latter aspect is considerably dependent on the design of the irrigation system and onfactors such as the quality of the soil. But s success is also influenced by power, influence, knowledge and material resources. As a result of the highly uneven resource endowments among settlers differentiation continues in spite of a formal equalization. The individual allotments, originally distributed evenly among the settlers, rapidly change hands. A few are able to accumulate land and wealth, whereas in the long run, the majority of the

poor allottees are condemned to lease their plots - with only few exceptions. Employment prospects for those however who, in the course of this process, are marginalised do not look too rosy; as they cannot be easily integrated in urban-industrial society. It seems unlikely that a livehood can be found from casual agricultural wage labour, either sings there could be considerable underemployment pre-availing throughout the year, with only a few concentrated periods of peak labour demand during field pre-paration and harvest.

Whether it is the tenurial conditions, or choice of suitable settlers or irrigation and farm management practions there are laws and regulations governing each of these for particular land settlement schemes. Apart from the structural constraints these various features face there is also often the iack of political will which prevents the legal provisions from being fully applied. For instance, the "minor" deviations in the pattern of holdings ut equal size in a major settlement project were looked on as a kind of self-adjusting mechanism on a raward for the pains of those who could acquire a little more, A key officials of this project is reported to have respended thus to a question on this issue:

"Of course, we are aware that some people are cultivating more than their 2,5 acre plot. There are always some who are more alart, who take the initiative and who work harrier than others. Why not? Let them accumulate".

But as observed in the earlier analisis on this process of accumulation permitting this type of social differentistion engourages pularisation of a few botter off farmers and the majority of poorer ones. It finally amounts to the failure of the peasant colonization schema in so far as it does not solve the problems for which those schemes were originally intended. namely, to improve the lot of the landless and rural poor. As maintained at the outset of this Report land settlement and land reform measures were intended to improve the lot of the rural peasantry,

To guote from the publication "Development and Change", David Dunbarn raises the question why such schemes must continue to be promoted despite limited results. He states: "Sr. Lanke is a particularly useful illustration of the kinds of contradiotions that lie at the root of povernment appraised land settlement schemes. As one observer aptly remarked of the Sri Lankan axperience: set tlement actieines which aim at equal neasant huldings have soon the twin tendencies of fragmentation of land and growth of hidden landordism both being the product of an Individualised approach in an unequal economic climate".

"Even so, there seems little to be gamed by illustrating the fact that there is differentiation. Because settlers rarely have quite the same assets or the same experience, because of differences in the location of their farms and soil fertility and because of the goal of commercialized farming ambraced by officials, it would be more surprising if differentiation did not occur, Indeed, it may very well be an integral part of the conventional 'model".

"The list of wees that commonly affilict these sattlement schemes can be extended further to the much-quoted cases of "faulty selection", problems of encroschment, the frustration of taitenders', the misuse of funds, and a whole series of other pittells' as well. A far more relevent point, however, is that more often than not there would seem to be a number of basic contextual factors which explain who so many of these smaller elements 'mowrong'. Clearly, technical errors and faulty judgements have played a role. but far more important in the majority of cases has been the nature of the political support....."

"Settlement policy in Sri Lanka has to be seen in relation to the country's structure, the nature of the state and the pottern of capital accumulation within which it was promoted. Control of land has always been a source of power and status in Sri Lanka society (especially in rural areas), and the acquisition of land has often proved to be vital in consolidating the new positions achieved through upward mobility. Granting them land has been a way of rewarding loyal supporters, and the control of land in itself has been very important in securing and in maintaining political power?...."

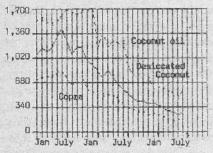
The socio-economic problems prevalent in present land settlement projects are far more complicated than they appear to be. The changes and developments occurring in these settlements cannot be understood or explained through study of only a perticular set of features. It needs to be accepted that a central feature of the current settlement strategy of heavy capital investment and overhead costs incurred by the state, is that the government has to achieve a satisfactory economic return. Thus, even though the goals of the sattlement programme are described in terms of equity and participation ideals, the primany motivation must remain that of securing a sufficiently high level of production for the market to offset the high infrastructure and administrative costs and to meet conditions imposed by the external lending agencies. In order to achieve this, it is necessary to develop verious organisational measures designed to stimulate the "commodifization" of production. This process entails the increesing dependance of the settler and his family on external agents, including both government and servicing institutions that handle such questions as agricultural extension, water management and various technical inputs, as well as private interests involved in trading and money landing. The functioning and survival of settler households should be understood within this framework.

COCONUT: Prices, Earnings Decline Production, Exports Increase

Market Prices

The prices of coconut products in the international market continued their decline over the first six months of 1986. (The decline is seen clearly in diagram 1). Average prices of copra and coconut oil during this period were US\$ 193 and 291 per metric ton respectively, a decline of 60 percent comparative to prices in the same Period in 1985. The price od Desiccated Coconut declined by 55 percent and its average price was US\$ 559 per metric ton. In June 1986, however, prices of all three kernal products indicated a slight increase compared with May, with copra prices going up from US\$ 153 to US\$ 65; and coconut oil prices going up from US\$ 233 to US\$ 254. The price of Desiccated Coconut increased from US\$ 450 to US\$ 576.

INTERNATIONAL MARKET PRICES (PRICE US\$ PER MT.)



In the local market, the prices of coconut products indicated similar trends. The average price of copra in the first six moths of 1985 was Rs 12.40 per kg; while in 1986 in the same period, it was Rs 4.89. Coconut oil prices averaged Rs 19.12 in the first six months of 1985, but in the same period of 1986 it came down to Rs 7.48. Both products prices declined by 60 percent approximately,. The declining trend in local market prices is also illustrated in figure 2. Prices

have kept declining due to the heavy stocks of vegetables oils released on the vegetable market. This trend, however, was expected to be reversed in the latter part of the year following the Chernobyl Nuclear incident in Russia, which has threatened supplies of sun flower oil and other vegetable oils.

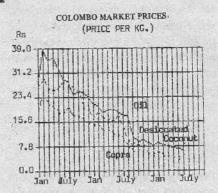


TABLE 1 INTERNATIONAL MARKET PRICES (USS per M.T)

Jan	Сорта	% Decrease	Coconut	% Decrease	Desiccated Coconut	% Decrease
1984	774.81		1207.83		1547.13	
1985	481,33	38	742.50	39	1238.00	20
1986.	193.00	60	290.67	61	558.48	50

Coconut Development Authority

TABLE 2 COLOMBO MARKET PRICES (Rs per Kg)

Jan June	Copta	% Decrease	Coconut	% Decrease	Desiccated Coconut	% Decrease
1984	20.31		33,21		27.19	
1985 1986	12.40 4.89	39 61	19.12 7.48	42 61	16,40 8.00	40

Coconut Development Authority

TABLE 3 EXPORTS

Jan- June	Coconut oil	% Increase	Desiccated Coconut	% Increase	Copra	% Increase
1984	40		5,599		461	
1985	19,554		23,748	325	1,480	221
1986	56,157	187	25,566	8	3,693	149

Coconut Development Authority

TABLE 4 PRODUCTION

Jan. June	Presh nuts (Mn)	% Increase	Coconut Oil (MT)	% Increase	Desiccated Coconut(MT)	% Increase
1984 1985	874 1,296	48	14,299 49,957	249	5,821 24,074	314
1986	1,587	22	82,831	66	27,050	12

Coconut Development Authority

TABLE 5 EXPORTS OF KERNAL PRODUCTS

JanJune	Total Exports (in M.nut equivalent)	Total FOB value (Rs Mn)	Avg. F.O.B.Value (Rs)
1984	40.93	217.57	5,32
1985	328.84	1,202.74	3.66
1986	647,17	950.31	1.47

Source: Coconut Development Authority

Production

Ouring the first half of 1986 better coconut harvests were obtained due to the favourable weather conditions. A 22 percent increase in coconut production was recorded during the first half of this year compared with the first half of 1985. Production of coconut hil increased by 68 percent and Desicoated Coconut by 12 percent.

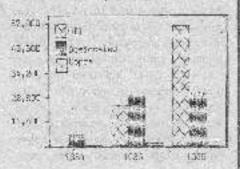
Exports

The volume of kernal products (copie, coconut, desicusted coconut, tresh nuts and seed nuts) exports increased by 97 percent in 1986 compared to the same period in 1985. In the 1986 period the volume of kernal products exported went up to 647 million nuts, equivalent, from 329 in milfrom nuts equivelent in the first half of 1985. But in value terms movement of export earnings indicated a negative trend. In the 1985 period foreign sarnings from kernal products were Rs. 1,232.7 million; while in Jan, June 1986 it came down to Rs 950,3 million, a decline of 20 percent ;the main contributory factor being the decline in the average F.O.B. value per nut equivalent, The 1986 period F.O.B. price per nut equivalent was Re 1.47 compared with Rs 3.66 in the 1986 period.

The volume of Cocanut Gil exports increased sharply in the first six months of 1986, while that of Desicated Coconut and Copra increased merginally. (See figure 3).

EXPORTS OF COCONUT PRODUCTS

(VOLUM: 17 FB.)



Foreign News Roview

International Commodity Agreements

The fifth round of negotiations beween cocoa producine and consumine countries in Geneva finally concluded successfully after nearly two years of negotiations. The new International Cacos Agreement, 1986, is due to enter into furce from October this year, and will remain in force for 3 years with possibilities of further extensions, After the accord UNCTAD Secretary General Lanneth Dadzie described the Agreement with optimism as the first of a new generation of ICA's International Commodity Agrosmonts); and he concluded the adoption today of this new Cocos Agreement with full economic provisions will undoubtedly give a further impetus to the efforts of uroducers and consumers of other cum modities to work together to find realistic and mutually beneficial solutions to the problems besetting the commodity sector".

Sceptics were of the view, however, that there was mounting evidence that the era of the North South cooperation on commodity pricing may be drawing to a close. Rubber trading nations had failed twice earlier to negotiate a new accord to stabilise the marker and a third round of talks was also collapsing with producers and consumers unable to agree on the currency to be used in a new price level trigger support mechanism and also on the procedure for revising its level.

Talks on a new Sogar pact plan remained stalled, with an inconclusive meeting held in Lindon in May 1988, between producers and consumers. The International Tin Agreement was one pact that collapsed and is due to be wound up next year. Meenwhile, the chances of a Coffee accord were also uncertain with no final agreement regarding quota shares for producers.

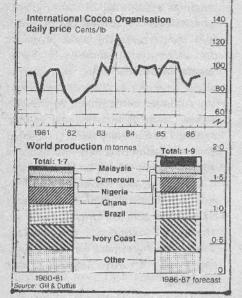
The UNCTAD Secretary General however, hailed the new Cocur agree-

ment as "an important turning point in the history of producer consumer co-operation within the tramework of international commodity agreements".

He stated on this occasion that comorration between producers and consumers was one of the main pillars of the Intercrated Programme for Commodities established in resolution 93. et UNCTAD IV (in Nairobi in 1988). and that, despite the bleak prospects for international commodity agree ments in record years, the international community had demonstrated its continued commitment to this particular form of international co-oneration. The Secretary General regarded the negotiation of a new International Agreement on Whest; on Olive Oil and Table Olives: and moves for new Nickel and Trapical Timber agreements as positive commitments towards international economic co-operation. The Coops Agreement was now expected to give a further impatus in this direction.

The regotiations for the new coens accord provides a typical example of the apprehension of commodity producers who are at the morey of international cartels that wield a major influence over the price mechanism of commodities. At the repotiating sessions on Cocca in March the Ivory Coast's Minister of Agriculture charged that prices were effectively set in the commodity exchanges of New York. Chicago, London and Paris by anonymous speculators not subject to international control, and refused to join the new agreement on the arounds that it could not guarantee a fair price for producers, taking into account increased costs of production. It was only after Ivery Coast Ithe world's largest producer) was persuaded to return to the negotiating table that producers and consumers agreed on key issues of price structure, price levels, and price adjustment mechanisms.

THE ECONOMIST COMMODITY PRICE INDEX First estimates of the 1986-87 world cocoa crop suggest it will be little changed from last year (around 1.9m tonnes), resulting in a surplus for the third year running. Output in Brazil will be 20% higher, at 440,000 tonnes, and Malaysia will also have a record crop of 150,000 tonnes, double the output five years ago. However, the Ivory Coast's crop will fall by 55,000 tonnes because of dry weather, and Nigerian cocoa production may be only 80,000 tonnes, the lowest for nearly 40 years.



As in the existing Cocoa Agreement, buffer stocking constitutes the main mechanism for price stabilization. The overall size of the buffer stock remains unchanged at 250,000 tonnes, with the possibility of an additional 100,000 tonnes. The Minister of Agriculture of Ivory Coast - (which is not a member of the present Agreement) gave his country's explicit endorsement, of the new Agreement. He termed it a "dynamic compromise" and said that, with the increased resources now available to it, its potential effectiveness for stabilizing prices been greatly enhanced.

UNCTAD's Deputy Secretary General, Alistair Mc Intyre, however, had a far more pessimistic prognosis on possibilities of better prices for primary commodities,

Malaysia sees grim future for commodity producers

The cocoa Agreement was obvious-

ly timely as this was one of the few primary commodities that has escaped the falling price trend over the past few years. But even here a firm of commodity analysts in London forecast that prices were likely to decline before long as the high price of cocoa butter made it a prime target for biochemists searcing for a synthetic substitute. There was also the possibility that suppliers would soon overstep demand as new production areas were harvested. More gloomy, however, were the prospects for certain other commodities, A 'HINDU' correspondent. S.Ramachandran, who was recently in Kuala Lumpur reported that low prices for commodities like rubber, palm oil and metals would persist because of a basic change in the link between the economies of commodity producing countries and the richer industrial nations, according to economists and political circles in Kuala Lumpur.

"Whenever prices dipped to reflect falling demand during a recession over the past 40 years, commodity producers could look forward to an eventual price rise as the industrial world returned to better growth rates". But Alistair McIntyre, Deputy Secretary General of the United Nations Conference on Trade and Development (UNCTAD - which promotes better trade conditions for developing countries) has warned that "the trend will not continue".

"The traditional link between cyclical fluctuations in economic activity and demand for raw materials has been broken", he said in a letter to senior bankers of raw material producing countries.

The price fall has been dramatic in the case of palm oil, the staple Malaysian export which had dropped steeply to MS 440 from MS 1,205 a tonne at the beginning of 1985.

Among Malaysia's other exports, tin had lost half its value in the same period. Rubber had been ruling weak around 180 sen (Malaysian currency) a kg as compared with 330 sen in early 1980.

Malaysian Prime Minister Mohamed Mahathir has said that "a constellation of forces have driven down the prices of virtually all primary commodities produced and exported not only by Malaysia but by the whole world. "He said the recent total collapse of all commodities was a new phenomenon. There seemed little doubt that for some commodities the end was near. Commodity producing countries were expected to be put on the "chopping block".

Economists blame rapid technological change for the lower prices. Better irrigation, seeds and fertilizers had all increased production to the point where today's yield of rubber is ten times that of the original trees found in the Amazon forests.

Technological progress had produced synthetic substitutes for natural materials, according to M.Sakamoto, Cheif Economist at Japan's Institute for International Trade. He said copper was being rapidly replaced by cheaper glass fibres in the communications industry. Glass, plastics and aluminium were all replacing tin in food packaging.

To compound the problems, industrial countries, notably the U.S. and Europe, had become large food exporters because agricultural subsidies had led to greater production. As a result, U.S. rice exports now threaten Thailand's lucrative rice trade in Asia.E E.E.C. sugar exports had the same depressing effects on the developing country sugar exporters.

UNCTAD's Deputy General Secretary was of the view that developing countries should diversify export products or face a grim future. "Far reaching changes are occurring in patterns of demand and supply for most major primary commodities, which are bound to affect profoundly development prospects in many developing countries", he said. Such countries access to markets in developed countries for their new products but they faced a strong protectionist sentiment.

PLANNING PERSPECTIVES FOR SRI LANKA

Suruth Wickramasinghe

Chartered Architect and Town Planner

The city as it exists today is a consequence of certain historical processes. that include rapid population growth. industrialisation and migration from rural areas to further amployment apportunities and better living conditions. This trend commenced at the turn of the century. As recently as 1971 urban population constituted about 16 percent of the world,'s population. In 1980 it rose to 41.3 percent, It is envisaged that at the end of the century a phenomenal 50 percent will live in cities, Between the years 1980 and 2000, the third world will appreximately double their population from 972 million to 2116 million, whereas in the case of the developed world the increase will be from 834 million to 1093 million which represents an increase of 31.1 percent.

In accordance with the 1981 Census the urban population of Sri Lanks. is estimated to be around 22 percent. of the total population. In this connection, the urban population is confined to the Municipal and Urban Council areas only. Considering the situation in Columbo, the 1981 Census indicates a population of 602,000. However, the Colombo urban area could be considered to have extended to a radius of approximately 10 miles from the City Centre to include Town Council areas such as, Mahamagama, Betteremulia, Trislawathugoda, Hendala and Wattala; thereby offectively increesing the population to approximately 1,4 million, Similar incrasses in the urban population could be applicable to other cities such as Kandy, Galle, Matara, Necombo and other urban centres. On this basis we could estimate the present urban population of the country to be around 30 percent of the total (i.e. 4.5 milfion).

The main factors that could be attributed to the increase in the population in urban areas are the location of government offices, major commercial establishments and the opportunities for employment, schooling, hospital and other service facilities.

Although we notice a considerable increase in the urban population the facilities available in the urban areas in regard to schools and hospitals have not shown a significant improvement. Moreover, the existing services are being allowed to deteriorate due to reasons such as lack of finances and a comprehensive plan for development.

In trying to meet these demands the extent of prime land suitable for commercial development and land suitable for parks and open spaces are being reduced due to construction of buildings. There is an alarming tendency for house builders in the city to utilise 5-7 perchés of land at exharbitant rates and locate them back to back and side to side purely to he within casy access of the leading schools, hospitals, government offices and their services: as result of which the land values in Colombo and its environs have increased twenty fold in the last ten years.

The direct consequence of the desire to visit the office from the neighbouring areas is the problem of traffic congestion. There is no doubt that the existing road network in the cities are inadequate to accommodate the present flow of traffic from the suburbs. The improvements to those facilities that are being carried out at considerable expense will not be adequate to meet demand if the present growth of traffic and increase in urban population is to continue. This situation will be more dominant in the case of Coiombo where the catchment area will extend to a radius of approximately 20 miles by the turn of the century, at which stage the improvements required for strengthening the infrastructure services would be of a formidable scale,

The Victoria Project has stimulated the growth of the Digana Town Centra and the resultant demands on facilities existing in Kandy are subject to increasing strain.

Negombo has had a similar impact as a result of having to eater to the needs of the nearby Frae Trade Zone. Thus the over-urbanised cities constitute serious problems and require radical thinking when considering planning perspectives for the 21st Century.

It is noted that similar problems have existed and continue to exist in several major cities of the world to a scale much larger than what we experiance in Sri Lanka.

Shanghai

Prior to the planning element being introduced. Shangnal was growing at an abnormally fast pace, with the influx of impoverlabed peakants from the countryside, resulting in the population increase from one million in 1930 to 5 million in 1949, an increase that imposed a severe strain on the existing facilities.

Subsequent to order being restored with the liberation of the Country in 1940, an appreciable increase in the standard of living took place as a result of the improvement to facilities and the levelling off of population increase through various thosas, one being family planning, Orderly development mude it possible for the industrial production in 1979 to Increase 23 times over the level that prevailed in 1949. A noticeable increase in agricultural production was also recorded. This increase in production went hand in hand with the provision of welfare facilities such as public health, medical care, social security, and the care of the sick, old and the disabled. This resulted in the dramatic increase in life expectancy from 43.8 years in 1951 to 73 years in 1979

Hanoi

As in other Asian cities the population increase in Hanoi was very marked during a period of instability. Since conditions were stabilised, Hanoi has managed to restrict population increase to 1.9% per year (inner city rate is lower) through family planning means.

Moscow

The orderly development of one of the biggest cities in the world (Population in 1981 - 8,099,000) had been made possible by means of a Master Plan. The vast problems that are seen elsewhere in similar agglomerations had been avoided by the adoption and efficient implementation of the Master Plan on a long term basis. The provision of scope for cultural appreciation and leisure activities is a key element of the Master Plan.

Cairo

Of the Egyptian population of 42 million in 1980, as much as 21 percent lives in the Capital City of Cairo, Devices such as family planning and distincentives to migration and the provision of facilities in the sorrounding areas are being adopted to reverse this trend.

Rome

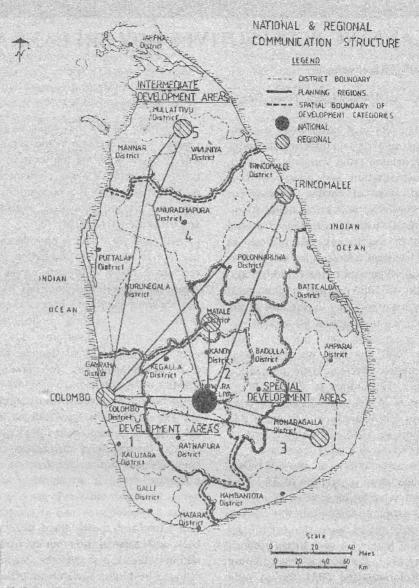
Rome's population in 1982 was 3 million. Its growth had been mainly due to the absence of controlling legislation thereby creating an 'illegal' Rome alongside a 'legal' Rome. The remedy now sought is to build satellite cities and to prevent the growth that was like an oil spill in concentric circles.

It could be seen from these instances of abnormal growth that it is the planning element together with stable political conditions that had been in a position to check and redress the ugly features of over-urbanisation.

Having discussed the need for change, I shall in the next part of this paper examine what the patterns of change should be.

Patterns of Change

The patterns of development since Sri Lanka gained independence, upto



1977 could be categorised under: (1) change due to ad-hoc planning and development; and (2) incremental. There has not been a comprehensive or systematic approach to planning since the priorities had varied with successive Governments. Subsequent to 1977 the pattern could be classified under the third category—Leal Forgging, with development being more dynamic and result oriented.

The Mahaweli Development Scheme which was originally programmed for a thirty year period was eventually scheduled to be completed within a period of 6 years. In the field of urban development, almost three million sq.ft. of office space has been built. In the Hotel Industry 3,000 additional rooms have been provided. The target of 100,000 houses has been achieved and the million houses programme is now in progress. Similar progress has been achieved in exports too

In the meantime there has been infrastructure improvement in communications with the introduction of subscriber trunk dialling, international direct dialling, telex, facsimile, computers and colour TV. These developments have been accepted by the peo-

die and have tended to change their outlook within avery short period. The level of unemployment in the country has also been reduced significantly from 22 percent in 1977 to 12 percent in 1985. A large measure of technological transfer was also possible. Future development should therefore take into consideration the continuity of this wattern of change, since these changes were made possible with the financial assistance received in the turn of Aid Grants and Special Loans from foreign countries and lending inetitutions. It should be realised that assistance of this kind cannot be expected to continue ad intloitum.

It is therefore necessary to alternate sources of financing in order that the development activity may continue at the same or accelerated pace an as to achieve an appreciable increase in the per capita income from a figure between US\$ 250 and US\$ 300 to US\$ 10,000 within the next four decades, in this connection a parallel could be drawn from the Snuth Korean experience wherein the per capita income rose from under US\$ 200 to US\$ 5,000 within a period of 18 years.

If one were to look into the shortcomings that exist today, the following could be highlighted; (A) Overurbanisation in and around Columba and its environs as previously described, (B) Transportation, (C) Communications (D) Educational facilities (E) Health Care facilities, (F) Employment (G) Housing and Sanitation (H) Social activities,

The regional development function by Itself could bring about a substantial improvement in the abovementianed areas. For this purpose the country should be divided into five regions as indicated in Map No. 1. The policy in this regard should include: a) Commitment to a gradual decentralisation of public administration/privatisation b) Evolution of a degree of decision making power to regional administrations initially in the fields of housing, education, health, employment and transport systems.

The planning should also consider

the technical and financial feasibility of regionalisation of certain state utilities such as, Telecommunications, Electricity and Water Supply.

One source of these functions could be by diverting funds that would otherwise be utilised for improvements to already urbanised arras. This should be supplemented by other means of raising funds.

One of the most important features of the system of regional planning should be the setting up of a Regional Development and Planning Authority for each administrative region. The main tasks of such an Authority should include the preparation of a Master Plan taking into consideration the aviilable resources of the region and the monitoring of the implementation of these plans to stimulate the social and economic development of the region.

The composition of the Regional Development Authority should be multidisciplinary by nature. The Chairman of the Authority should be a Minister overlooking the region, who will cu-ordinate action between the regions and the central government. The Authurity has to be autonomous with provers to formulate policies and implementation procedures in respect of each of these regions. The objectives of the Regional Development Authority should be: a) To encourage and faxter the sconomic development of the region, b) Widen and strengthen the base of the economy of the region, c) Encourage and fusier the establishment and development of Agriculuture, Industry, Commerce, Education, Housing, Health care etc., e) Administer affairs ut the region through enordinated implementation units fort-1. Human settlements 2. Education and Health care 3) Highways and Transportation 4) Agricultural and Industrial development, 5) Social and Cultural development, BI Explore and exploit untapped mineral and industrial resources of the region including research and development functions. These functions are to be similar to the functions of the G.C.E.C.

21st Century Porspective

I would like to commands by quotine from Alvin Tofflar's "The Third Wave [1980]"

"A new civilization is emerging to our lives, bringing with it new family styles changed ways of working, loving and living, a new economy, new political conflicts beyond all these and attered consciousness. Humanity faces a quantum leap forward. It faces the deepest social upheavel and creative restructuring of all times." It is now necessary to device ways and means of accelerating the implementation process to meet the domands of the 21st Century, Technology should be the basis for the generation of income, knowledge and providing for the oversil well-being of the people. The technology so relevant is now broadly called Information Tachnology, This involves the gradual introduction of micro electronic devices which are daily becoming less expensive and theraby affordable to many in Sri Lanka. These devices include satellita communications equipment. computers, robotics, fascimile, date transmission etc., They will accelerate the pace of dovelopment with a view to rapidly improving the standards of living of the people.

One will not imagine a person in any region in Sri Lanks in the 21st century not having the use of Talephones or TV or even a Computer for his productive use. Our challenge is to find the resources to make these available initially at least at the community level if individual facilities cannot be provided at the commencement,

I would now indicate how Informs tion Technology can assist in the integrated planning and development process which will permit a comprehensive development of Sri Lanka.

In planning for the future, integral ted development efforts would involve the initiation of a communication and information system that would co-ordinate between the Rural, Regional and National needs, Rural Development has nither to suffered as a result

of the absence of reliable communication thereby isolating itself from the field of information. Besides skills acquisition and the provision of basic and continuing education, health services and other social services too have been neglected as a result.

The advantages in these innovations is their low cost reduced power requirements and the use of simply constructed earth stations with ability to reach remote locations in undeveloped areas and difficult terrain with the minimum of infrastructure facilities. The Information Technology and their applications have the capacity to evaluate the implications of changes in supply, demand, production, consumption, poverty levels, affluence etc., and has access to the knowledge that identifies the best possible means for the development of policies, programmes and measures in this respect. In order to reap the maximum benefit from the Information Technology at the grass roots level, it is necessary to have links with the national and regional levels.

Information Technology systems of increasing capacities from the village to the National Centre that form the heirachial order will then be the medium of communication and information to the masses.

At a village level, these inatallations shall initially be accessible on a collective basis (Community Command Base) and gradually extend to individuals (Home Command Base). With the general improvement in living standards the home will undergo a vast change with increased use of appliances.

With further advancements the same information technology wil make it possible for individuals to operate from their home bases and have access to the Global Network enabling them to purchase products, manage financial affairs, communicate with business concerns, have personal contacts and learn and work from home.

The physical impact will then be flexi place location, independent working, with the home as the supreme command base providing housing, working, consuming for the individual and thereby creating a new economic sector.

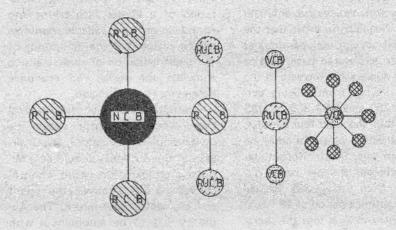
The first industrial revolution resulted in migration to urban areas. The 21st Century will reverse this trend with the de-urbanisation becoming inevitable. Further impetus in this direction will emanate from a change in the corporate structure and the need for location diminishing with conuberations becoming almost obsolete as distance will then no longer be a hindrance.

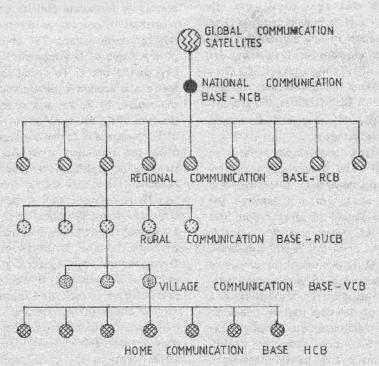
In this emerging pattern, the 21st

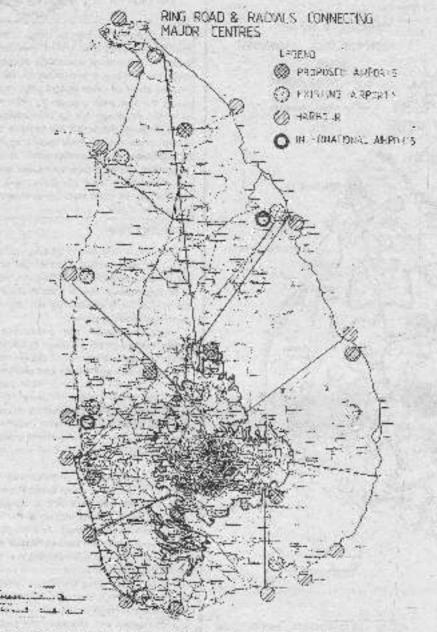
Century will witness a radical change in the structure of National, Regional and Rural settlement irrespective of locational or proximity determinants and the resultant settlements pattern would be clusters of predominantly eletronic villages in a nuclear development order of built form as shown in Plate 1.

Recommendations

Having looked into the reasons as to why a change is necessary and in what direction we should change, I would now set out some recommendations of particular activities to be undertaken to meet the demands of the 21st Century.







I In planning the future road network system, it is desirable to have rapid transit motorways linking the major cities. However, it would not be economically feasible to provide links only between one or two cities in implementing such a programme. I would therefure propose a Ring Road at about 1,000 MSI, slevation which would connect locations such as:

Ehcliyagoda, Kuruwita, Uggalkalthote, Wcclewaya, Biblie, Mahiyangens, Pubbenawcia, Nalanda and Mawatagama.

1.1Radial roads characting from this Ring Road could be provided to connect other cities not covered by the ring road in a structure that is similar to a "XX)BWEB", Refer Map No. 2.

1.3Colombo by-pass from North and East to divert traffic to the South to be carried out as early as possible. Sundar approach to be adopted in other major cities such as Kandy, Kurunegala, Gallo, Matara.

 3Construction of fly-overs or overhead bridges for the road network at Railway crossings.

2. Rell Net Work

Whitst laying emphasis on the development of the road network,

it would be necessary to supplement this with an efficient reil and air transport system.

2.1 Rail Network

Development of the mil network should include the electrification of the system within the Colombo Region.

- 2.2Introduction of underground rail-way network within the city which would be a surface railway system in the suburbs. The underground network system should be ideally located beneath the major roads, for example, Gatle Road, Highlevel Road, Buller's Road, Reclamation Road etc.,
- 2.3To relocate the existing coastal railway lines from Colombo to Matara by moving it latend by approximately 5 miles from the coastal line.

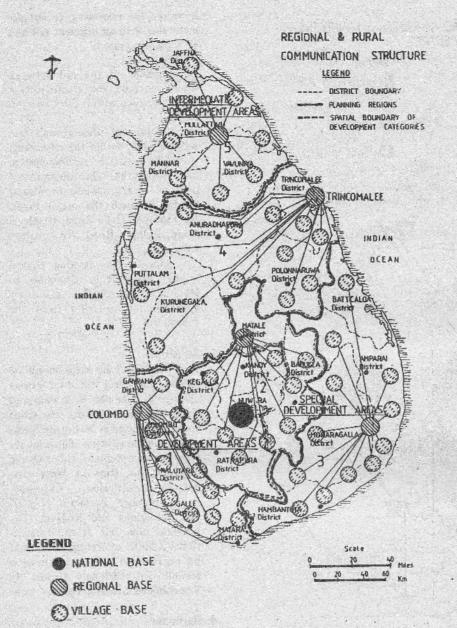
3. Air Strips

The locating of air strips should be outside the Ring Road at points cluse to Pelmadulla, Woliawaya and Nalanda, In addition, air strips could be incated at Wellmada, Kurunegala, and Mulleitivo. Those would serve to supplement the existing domestic air stips at Weerawila. Amparai, Batticaloa, Chinabay. Pallali, Manuar, Puttalam, Negombo, Ratoralana and Kogenia The pressure now felt at the Interestional Airport at Katanavake could be relieved by the Incation of a second International Airport in Trincomalee, See Man No. 2.

4. Harbours

Harbours for coasts) transportation should be provided at Arugam Hay, Battlesion, Trincomalee, Multattivu, KKS, Pouncryn, Monnar, Puttalam, Negombo, Colombo, Beruwela, Calle, Matara, Hambantota and Kirinda.

5. Over the past 50 years the City of Colombo has been transformed from the Garden City to a highly congested tuban situation as we observe today. This is a result of the inadequacies in the planning function that have been carried out and the resulting ad-hoe development over the years. We should therefore learn from this experience.



and avoid similar mistakes when planning for the 21st Century. The proposed Regional Development Plans should therefore include effective controls in the allocation of land for different purposes such as Residential, Commercial, Educational, Industrial, Agricultural and so on at Regional/Urban/Rural and village levels. For example, the residential development areas should be confined to small units with 200-400 housing units together with common infrastructure facilities. This will not only result in better utilisation of land but will also bring about economies in providing infrastructure services. In addition, this will assist in the setting up of the electronic communication network planned for the 21st Century as referred to in Plate 3.

6. Establish communication centres at village, rural and regional levels linking to a national centre through which access can be gained from village to a global level. In this respect reference should be made to Map 3 and Plate 1.

(Excerpted from a paper presented at the annual sessions of the Sri Lanka Institute of Architects).

DRUG TRAFFICKING AND

The National Dangerous Drugs Control Board have found in several of their recent studies that the easier availability of certain drugs has become a key factor in the increasing abuse of drugs in Sri Lanka. In this report the drug most expansively dealt with is heroin as its use has become comparatively wide spread in Sri Lanka. One conclusion from this study is that drug trafficking generates vast profits which tend to undermine the economic and social order, spreads violence and corruption and endangers the political stability and security of some countries.

INTRODUCTION

The abuse of a variety of drugs remains at a high level in most parts of the world and in some countries, including Sri Lanka, is on the increase. Health hazards are being aggravated by multiple drug use often in combination with alcohol.

Illicit cultivation and production of drugs involve a growing number of countries located in several regions of the world including the Near and Middle East and South-Asia. It has been found that illicit cultivation, production and trafficking in the above areas has inevitably led to abuse by the local population; the abuse increasingly affecting young people and thereby presenting a danger to the future of such countries.

Illicit activities are financed and operated by organised criminal syndicates often with international links and a dangerous development in several regions is the close connection between drug trafficking, the proceeds of which are used to finance other major criminal activities including the illegal traffic in fire-arms; subversion and international terrorism. Drug trafficking generates vast profits which tend to undermine the economic and social order, spreads violence and corruption and endangers the political stability and security of some countries.

The international community has already launched comprehensive counter attacks against illicit drug trafficking and abuse and stronger political commitments are being made at the highest levels of Governments. New initiatives regularly taken to promote effective and co-ordinated action and improving inter-regional co-operation, particularly at the operational level, is leading to a measure of success. The joint counter actions all proceed from the common conviction that effective and lasting progress can be made in any one affected country only if all countries co-operate.

The large quantities of opium and heroin which are being seized in neighbouring countries indicate the existence of extensive

ABUSE IN SRI LANKA

illicit popery cultivation and a substantial lieroin manufacturing capacity. The increasing traffic in hurser and its easy availability has led to an excelption of the above of this choose in many pents of the Asian region including Sri Lanks.

DRUG ABUSE

No netion has managed to avoid the regotive consequences of drug truttleking and drug dependency which is jetpendizing the health of citizens and indermining aconorgic and assist inetitations. The elever of generalist operate and other dependence producing drugs continues at opidemid levels resulting in both drug related deaths and gipes. It portionarly destroys the young, and thereby seps the furtiff strongth of many rections, Continued production leads to an equalitation of apply, and evailability being accepted as a key factor in the closes of drugs; heroid use in particular is certain to become over more widespread.

DURGS OF ABUSE IN SRI LANKA

Cannabis

Cannable Is cultivated mainly in the Southern and South Western regions of the country , in jurigle trade at Theremologie, Hambandote, Moneregale, Veglavoys and Hibile. The total eron under cultivation at present is estimated to be 200 parts. The legionard contable is invariably transported to Colombo and its suburbs by the financiars and individual buyers. Transport is by road, concealed in vehicles conveying regular merchandise such as segerables from these areas.

the undermentioned table policetal the quantities select and the number of persons greated from 1980 to 1985, for companished at the companies of the companies of the companies.

Year	No. arrested	Quantity seized
1980	6,003	350,227 kg
1991	6,015	433,777 kg
1962	4,977	11,532 kg
1983	3,893	70,548 kg
1994	4,901	7,398 kg
1985	3,056	11,238 kg

Epsciel cracication campaigns (cunched in 1980, 1981) and 1983 resulted in a reduction of the total area under cultivation. However, due to other national priorities, enforcement action since 1983 has earsi (Arabily Georgasco).

There were an estimated 18,000 chronic senrephic users in 1981, it is now established that the quentity of is nobbis produced in this country is in excess of the amount of

quired for local consumption. Recent resertions expecially to the United Kingdom revealed that locally produced carnebie is lingally exported, mainly by see, concealed in regular exports tuch as content oil drama and ice chasts.

Detections also reveal that Karala gangs which is of a higher potency than the local product is being brought into Sri Lanka.

year	No. arrested	Quantity seized
1980	148	188 kg
1981	145	28 kg
1982	186	11:3 kg
1983	148	6.3 kg
1984	152	1.4 kg
1985	66	4.6 kg

from India, mainly by illicit transportation by sea, both for Ideal consumption and in transit to Europe and North America.

During the past three years the wholesale price of local connabls in Sri Lanky has ranged between Ps.40/- and Ps.120/- per kg, at source; Ps.100/- to Ps.250/- per kg, in Colombo and Ps.500/- per kg for better quality, means for expert.

Hasbish

The greater proportion of hashish in this country originates from either Bekister or India and is usually brought in by non-nationals. The following table shows the detections from 1990 to 1985.

Tear	No. arrested	Quantity seized
1900	59	79 kg
1981	98	126 kg
19R2	99	28.2 kg
1993	61	2.5 49
1984	47	18.5 kg
1985	25	1,2 kg

Psyschotiopic Substances

There have been less detentions involving

the abuse of psychocracity substances. How ever, substance abuse in believed to be prevalent, mainly due to diversion from littlets sources.

Op≩am.

filletr option is smuggled in for distrihution locally, from India, mainly by sea across the Paik Straft. Figures show a deernase in availability of option in recent years. This induction is due mainly to a switch-over to heroin by opium abusers and new user preference for livroin due to its higher potency. The presence of election to the higher potency. The presence of election to tree in the traditional landing energy to the North has also contributed in some measure to curb the emugating of opium. The following table gives perticulars of the errests and quantities selzed from 1980 to 1985.

During the period 1975 - 1978, of 3,000 persons who sought assistance in avercoming drug dependence, 40% were chronic users, in 1980, it was estimated that there were about 5,800 option nears in the country. The mean age of a hospitalised group of optiom dependents was tound to be 55 years and 35% of them were married. Between 1980 and 1985 there was a decline in the abuse of option, which coincided with the repid increase in the number of heroics abusers. Availability of option is presently at a very low level.

Except for one claudestine heroin to borstory which was detected in 1981, there has been no exclange of conversion of option joto morphine and heroin in Scillanke,

Heroin

Lodin and Pakistan are the sources of almost all the heroin brought into this country, This thrug originates in the "galden ercseent" region which is the save within the boundaries of Afglientistan, Pakistan and Iran, where the opium ocepy is itilettly cultivated, and where it is claimed, anforcement of the law is difficult due to the terrain and lack of government control in tribal areas. The majority of martickers are Sri Lankson courters who traval by air and serios in this eduntry from ports in India and Pakiston. There has also been limited Regaltransport of heroin by assinto this country by Sri Laukan marchant saemen. There have also been a few instances of con-estionals amagaling herein into Sri Lanks, mainty by air; univer originating again from ports in India and Pakistan. These couriers have been Pakistani nationals and West Europeans, Given below are the figures of arrests and quantities seized from 1980 to 1985,

The ready availability of heroin in Pakistan and India has attracted a large number of Sri Lankans to act as couriers. Payment for the purchase of heroin is in foreign currency and there are instances

Year	No. arrested *	Quantity seized (in kg.)
1980	Nil	Ni1
1981	08	0.277
1982	33	3.000
1983	263	5.260
1984	1,794	38.700
1985	3,339	18.250

* includes non-nationals

Sri Lanka has been used as a transit point for movement of heroin especially to Western Europe. However, this trend has noticeably declined during the last two years, as couriers find it more convenient to move the drug direct from Pakistan or India. In both instances, whether for local consumption or in transit to Europe, heroin is usually smuggled in false bottoms and compartments of passenger baggage or concealed in articles carried by the passenger. Sri Lankan couriers have also been known to resort to concealment in body cavities.

An increasing number of Sri Lankans, the majority of whom belong to the Tamil ethnic group, have Leen arrested abroad for trafficking in heroin. The following table gives the number of Sri Lankans arrested for traffficking offences abroad.

Year	No.arrested	
1980	42	
1981	82	
1982	128	
1983	231	
1984	301	
1985	315	

When compared to the increase in arrests of our nationals abroad, the arrests of foreigners in Sri Lanka for drug offences, shows a marked decrease, partly attributed to the stringent penalties stipulated by the amended law. The following table depicts the number of foreigners arrested in Sri Lanka for drug offences from 1980 to 1985.

Year	No.arrested
1980	88
1981	147
1982	139
1983	123
1984	54
1985	34

of gold being used as a barter commodity or sold to obtain funds for the purchase of heroin. Gold is smuggled out of Sri Lanka for this purpose.

HEROIN ABUSE

The abuse of heroin in Sri Lanka was detected for the first time in 1980. Heroin availability has increased since then and with it, the numbers abusing this dangerous drug.

Increasing availability/use.

At the outset, heroin use was detected in the city of Colombo and a few tourist resort areas. There is recent evidence that its use is occurring in other urban, semi-urban and in a few rural areas. Of growing concern, is a suspicion that heroin dependence has begun to spread to new developmental areas of the country.

During the latter part of 1985 the Board conducted a study on the drug abuse situation in the Hikkaduwa Assistant Government Agent's Division, in which many major tourist resorts of the area were located. The objectives of this study were to identify and assess the nature and extent of the current drug abuse situation in this affected area and also to assess the impact of tourism on the problem of drug abuse.

Some of the major findings of this study were:-

 The population density is relatively high in this area and a household consisted of an average of 6 to 7 persons. The educational standards of the people were relatively low! 29 percent were found to have terminated their education at Grade 8 and only 8 percent had proceeded up to Grade 10.

The land and other resources available for agricultural activities are relatively low. The more lucrative tourist industry in the area occupied vest stretches of land traditionally used for beaching of fishing craft. This industry has also attracted the younger fisher-folk from their traditional occupation; which has contributed substantially to the decline of the fisheries industry.

- 2. Tourism is the major source of income of the majority of the people living in the Division. In addition to the income derived from lawful occupations connected with tourism, people engage in unlawful activities such as female and male prostitution and drug trafficking to increase their earnings. Since the Hikkaduwa economy is mainly based on tourism, the objective of the people is to maximise their earnings, especially during the tourist season by providing services legal or otherwise to this industry. In Hikkaduwa the drug abuse problem cannot be viewed in isolation since it is inter-connected with other social problems.
- 3. The most widely abused drugs in the area are heroin and cannabis. Association with tourists who are drug users have often led local youth to take to the drug habit, although many at present are being introduced to drugs by their peers. Heroin peddling in the Hikkaduwa area is almost totally in the hands of Sri Lankans.
- There are a number of tour-guides who are themselves involved in male prostitution and the abuse of drugs, mainly to avoid losing a foreign client to a competitor.
- As estimated 2,000 drug dependents reside in this area. Many drug dependents from neighbouring areas such as Ambalangoda and Galle visit Hikkaduwa to purchase heroin due to the relatively lower price prevailing in Hikkaduwa.

Recent trends

Until recently oplate use was a phenomenon mostly prevalent among the middle-aged, It has now shifted towards the youth. Several surveys have indicated that heroin dependence is commonest among young people. Enforcement statistics indicate that persons most often involved in drug related offences are between 18 and 30 years of age. Experience with dependent persons who have sought treatment points to an involvement of an even lower age group.

A survey designed to assess knowledge, attitudes and practices regarding non-medi-

cal use of dependence producing drugs. among 6205 students in Grades 8 to 12 in. the Kalutara Education Circuit was conducted in 37 schools during the first quarter of 1995. Hits survey was centred in the National Institute of Health Sciences et Kalutara and ressons of accessibility and east at apprecian less to the affection of this district. Besides, the Kalarrara district sherer several pharacteristics of Sri Lankan (weslity and the urban scens. An anded 18480ri was the proximity in Oplombo and the influences from jourism. This survey revealed that 1.3 persons had used dependence producing drugs at least once. The corrent opers are all male students. Of the students who have used any drug at least once, 63.9 percent had used cervrebis,33.3 percent had used horota and the belonger 2.8 suggest had used palum, The study sizo reavealed that 38.7 percent of the ecudents who have used drugs have done so out of curjosity and another 49.3 percent due to pressure by friends.

2.7 percent of the users had their first superience before the age of 12; 13,3 percent between the age of 12 and 16 and the belance 64 percent after they were 16.

Of the cute number of students surveyed 11.7 percent had used attached and 9.0 percent had used tribation.

Extent of homin abuse

Since 1980, about 6,000 persons have been arrested annually for drug related offences in Srs Lanka, Since the introduction of heroin to the area scene in 1800. heroin related cases have increased almost terifold between 1984 and 1985, to the extent that heroln depositions which consisted of only 16 percent of the total number of all drug related datactions in 1984 increased to 51 percent in 1985 during which year approximately 3 000 heroin related often ders were derocted to keeping with the lasternationally accepted figure of 80 users per 100 arrests, epuroximetery 2,400 of these arrested would also be heroin users. Using the W.H.O. Index or incomilled to real as 1:10 the estimated number of Leroin users for the year 1986 would be 24 000.

The average belly consumption of a heroit dependent is presently in the region of 500 mg. On this base the estimated 24,000 heroin uses who is esquire a total of 12 kg of heroin coch day to maintain metricular. Dully expenditure on having by uters in Sci. Lanke asceeds as 25 million. Sharis first indicate that the total quantity of heroit assembly Enforcement Agencies it. Police, Customs and Excise in 1985 is less than I percent of the estimated total quantity of heroits amagging into the country.

that year, Studies at International level prove that drugs seized world wide represents only 7 to 10 percent of the amount octupily smitgage.

Social consequences

Sri Lanks is presently faced with problens experienced by many other countries associated with the lisage institle and above of heroir. Heroin dependence is now known to be a factor responsible for spotal, family and sersonality disruption.

Many users red fort their Jobs exercity of their dependence on the drug.

The everage delify income often being less than what was encoded to maintain the lieroin habit, many dependents resurted to the sale of personal and tamily belongings resulting in educate family relationships and circumstances.

Some of the dependents were involved in both party and grave estime and 1.4 dependents of a sample of 1.00 were known to have past criminal records. A considerable number of addicts in employment had experienced installity to copy with their occupations, functioned at a lower level of affectiveness which was usually attributed to experiment of ability, a loss of interest, leck of motherbon and pluggishness could by the drug.

NARCO- TERRORISM

An increase in the involment, obraselot Srt Lankan nationals in drug related cases was first observed in 1882. Since then there has been a progressive increase of Srt Lankans arrested in foreign countries.

The number of Sri Lankons arrested in 1989 was 301 of which 30 margarit overs Territs, and in 1985, 215 persons have been greethd according to the data evallable at the Polles Piercation Hursey, Of these over 90 percent eta Sri Lanken Temils, Sri Lanion Tamila have been errested for drug tratticking mainly in Hally, France, Spain, West Germany, Switzerland and the United Kingearn, Transligations have established a derinice link between heroin trafficking and the Temil terrorist movement in Sri Lanks, This commection has been established tropp by documentary and other twidnings getheran here and abroad during investigation, and on admissions made by those greated. Most of them have been persons classify prolitical refugee status in countries of Ventain Europe whilst a few had stained colletest wiuge after arrest.

Srt Lankan Terhira ere well established and organisad in cheek adultries and they

now handle not only the convoyance but almost the entire distribution of harsin anugaled by them into several European countries. They are known to have dove-toped links with other criminal and torrosts organizations. Appointing to the reports published by international agencies in February, 1986:

The majority of Sri Lankers found themselves unemulgyed and work terpsivil of low educational background making them even easier targets for the illigit trafficieng organisations. This process continues and the number of Sri Lankane arrested in recent years been withsee to these facts. Almost 50 pervent of these persons are in the age group 18 to 30 years. As a result of continued involvement in this type of drug trafficking, one time pourless have formed themselves Into trafficking groups located in Spain, Switzerland, Italy and Frence. Sri Lankan couriers have established aclose contacts with drug deaters and criminal syndicares in Paris, Rome and Amsterdam and have become involved with Indians, Pukkesnts, literium and Nigerians, nationals with have proved to be significant heroin traffickers. The majority of Srl Lanken couriers will be in possession of false and adapted passparts with forged visa andonements. They will also carry separetist political propagands, It is expected that Sri Lankens and gane couriers will move in a large quantity of heroin from India and Pakistan to Western Europe in Summer 1988

While some at these Sri Lenkan Tentils trevel to India or Pakisann legally or life-gally and then proceed with heroin to the Wast European pountries, most of these traffickers first enter the European countries as political refugees and travel from there to India and Pakistan to pick up the heroin for the organizations established in the European countries. These organizations constituted training and removes organizations which herein details of travel, stay, incommentation and financing and also halp such persons to establish their plains for political refuge.

Investigations have glap revesing connections with foreign based percentage training control and also the siphoning of part of the processes to international terrolist organisations in recompanies for their support authorities to the Tarvil dominated drug rings.

(From a National Dangerous Drugs Control Board report).

THE ONE-CHILD SOLUTION

Declining Fertility in China Card Vissory

Dr Carol Vlassoff is Associate Birector, Population and Development Research Programme, in the Social Sciences Division of the International Development Research (entre (IDBC) Canada.

Chirle is undergoing a demographic transition with a rapidity never before experienced in the history of mankind.

English high rates plummeted from an estimated of about 50 births per thousand population in 1953 to only 21 in 1983. Death rates also declined markedly. As a result, the population growth rate during the 1980-85 period 1.17 percent per year - approximated that of the industrialized world.

These dramatic declines have been artributed largely to Chine's vigorous family plenning program, the promotion of one child families, and a system of related rewards and penalties. The goal is to halt population growth by the year 2000 at 1.2 billion, and gradually to reduce the population size in the years thereafter.

Chinese authorities have devoted considerable attention to research on population characteristics and trends in the past few years. This represents a major boost in the status of demography in the People's Republic.

Demographic statistics used to be based mostly on speculation and inferences from press reports, with occasional references to a little known official population registration system. Since 1982, however, Information has been collected and reported in a vigorous manner from a number of sources: registration figures for births, deaths and year-and population totals from 1950 to 1992; the 1982 population census, which was conducted with meticulous care: a 10 percent sample survey of census questionnaires; and a one-per-thousand sample fertility survey, also conducted in 1982.

The most current contributions to China's growing bank of demographic information are coming from an indepth fertility survey conducted in April 1985 by the State Statistical Bureau (SS8).

Assistance was provided by Canada's (IDRC) International Development Research Centre and Norwegian and Danish donors, IDRC's role was to provide training for the Chinese researchers in the survey design and methodology.

The results, once compiled and analyzed, will provide a wealth of information on fertility, contraception, abortion, infant mortality, family size preferences, and attitudes toward government policy - subjects never before investigated in detail in China.

The survey covered two provinces, Hebel and Shaenxi, and one municipality, Shanghai. These areas contain about 18 percent of China's total population. Hebei is typical of the coastal provinces of northern China; Shaenxi, of the inland regions; and Shanghai, of the large metropolitan centres,

In each area a rendom sample of 5000-7000 households was selected. From these, all women of child-bearing age who had ever been married were interviewed, amounting to more than 13000 respondents.

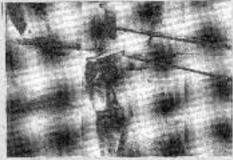
The quality of the data was exceptional, as was the speed with which they were collected. The remarkably high response rate of more than 95 percent in each of the three stess ratlects both the dedication of the survey team members and the enthusiastic co-operation of the respondents.

The interviewers, many of whom held other jobs as family planning workers, worked late into the night studying for examinations designed to assess their readiness to unddentake the fieldwork. "Unless we obtained marks of over 90 percent", explained one interviewer, "we were not allowed to participate. We didn't do it for

money, only as part of our regular jobs. It was a wonderful apportunity to learn how to conduct a scientific survey".

As for the high level of public participation, it can largely be explained by the pressurvey efforts of the research team. "The survey was advertised in advance in newspapers and billhourds" said one of the survey supervisors, "and people were urged to co-uperate. This meant that they were prepared for the survey and even left honoured to be chosen. We also alranged interview times to slut the women so that the questionnaire was not viewed as an inconvenience but rather as a novel, and even special, event".

The preliminary tabulations now available contain a number of interesting insights. And the information appears to be remarkably consistent with the 1982 census results and other sources.



The success of China's family planning program is demonstrated by a dramatic fall in fartility. The total fartility rate (TER)- roughly the number of children per completed family-declined from 5.4 in the 1940s to 2.6 in 1981 for the country as a whole.

The 1985 in-depth survey revealed further declines, at least for the three study areas, with TERs of 2.4, 2.3, and 1.1 in Hebel, Shaanxi, and Shanghal, respectively. These large rural-urban differences between the provinces and Shanghal are attributed by Chinese researchers to the greater intensity of family planning programs in urban areas. They conclude that if China's population growth is to be halted at the 1.2 billion mark by the year 2000, family planning efforts will have to be concentrated in rural areas.

Another important factor contriouting to lower fertility is the transition to later marrying ages of women. over the past 30 years. The in-depth survey revealed that in Shanohai, for example, 42 percent of the joldest cohort of women laged 45-491 were married during their teens, compared with only 3 percent of those aged 20-24. This increase in are at marriace is mainly the result of a national poliby unoburaging delayed marriage and o' a weakening of the tradition of arranged marriages.

The use of birth control in China approximates that of the industrialized countries, with about 70 percent of married women of reproductive ages practicing comraception in 1982. In the three surveyed areas, 70.80 percant of the women interviewed had used at least one family planning mothod, and the large majority were promising birth control at the lime ul the study: 83 percent in Shanghal, 76 percent in Hobbi, and 69 percent in Shaanxi.

Chinese researchers were concerned that a small but significant proportion of women were not using hirth control. but already had one or two children. These were seen as the most importaget for family planning Information.

Since 1979, in keeping with the one-child-par-family policy, the Chinese government has been issuing single-child certificates to couples with one baby who plettigt to have no more. In 1982, the nine-per-thousand survey revealed that 43 percent of single offspring mothers had accepted the one child certificate. Only 6 percent of certificate holders interviewed had failed to maintain their pledge, nearly all of them from rural areas.

Infant deaths among certificateholding families were amazingly rare. Family planning officers attributed this to the fact that an only child is better cared for because by lawing or she is entitled to superior medical services. Furthermore, an only child does not have to complete with sblings for parental care and attention.

Following the traditional Chinese preference for male offspring, 60 per-



cent of the certified children were boys, 40 percent gire. In affect, couples were more likely to agree not to have any more children if their first baby was a poly rather than a girl. The imbalance was, again, more procounted in caretoress,

Data on one-child certificate holders from the indopth survey have not yet been analyzed out preliminary results indicate an increasing acceptance. of the one-child norm, in Shanghai, for instance, four-fifths of samples. women had borne only one child, compared with less than call the respundents in Shaank and Hebei. The researchers authioute these differences to variations in infant mortality sates among the three areas from 19 deaths per 100 births in Shanghai to 35 per 2000 in the other two provinces.(It is common for rural couples to need several philogen in the fear that one or more will diet.

Varying infant mortality reflects divergent social and health conditions: n Shanghai, for example, the large majority of deliveries take place in hospitals, whereas in the mure isolated proginges most of the births occur at home. Thus, researchers nute that if the one-child family policy is to sucgeed in rural press, health conditions there must be substantially improved.

CONVINCING THE PRASANTS

In spite of its record to date, Chiha's population policy still faces ou. Digitized by Noolaham Foundation. noolaham.org | aavanaham.org

microus shallenges, including the need to improve family planning acceptance. in rural areas, Marry Chinese express doubt as to whether the policy's success in the countrysids will even match. that of the metropolitan areas. The "respunsibility system", which percrits the said of surplus produce on the open market, has a roady greatly enhanced the welfard of rural passants, enabling some to provide for several children independently. They may wall be willing, therefore, to foregosome of the public benefits uffered to one unito families.

Another challenge is the recersal of public prejudice in favour of sons so that couples will be content with only one child, whether male or female, This radical phange in sex preference has already begun, and there is little concrete evidence of female infantie de or neglect.

One researcher noted that ancient proverts in preise of girls are being revised. One, for example, compares boys to lackets, which are meant primetily for appearance and are easily removed; Girls, on the other hand, are like undershirts: their value is less covious but they are worn close to the heart!

It will be fascinating to follow the future course of demographic trends: in Ching, the world's most populous nation. Indeed, if current enthusiasm for fartility surveys continues, the resulting documentation will be rich and plentiful.

The Economic Review in its Twelth year of publication has produced several issues that are still in demand. For the benefit of those who have made repeated inquires, we give below a list of some of the issues of which few copies are still available.

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	July	77 General Elections
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	April/May	Rural Credit
1982	Sept.	Presidential Polls
	Dec.	National Elections
1983	Feb./Mar.	Budget 1983
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	May	Global Economic Recession
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	July/Aug.	Tourism II
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