Country Report
Sri Lanka

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Country Map
An island in the Indian Ocean off the southeast tip of India is known as Democratic Socialist Republic of Sri Lanka. It has a population of 21 million. Sri Lanka is a multi-religious and multi-ethnic nation which has 70% - Sinhalese, 15% - Tamils, 13% - Muslims and 2% - Others. Literacy rate at 91% is one of the highest in the region.
Country Information
Past and Present

- Indo-Aryan emigration from India in the 6th century B.C. came to form the largest ethnic group on Sri Lanka today, the Sinhalese.

- Ceylon became independent from British rule in 1948 and name was changed to Sri Lanka in 1972 at the time the country became a Republic.

- Mrs. Sirimavo Bandaranaike, became the world’s first female Prime Minster in 1960.

- Sri Lanka is a democratic republic with an executive presidency.
### Country Information

<table>
<thead>
<tr>
<th>Extent</th>
<th>Approx. 65,600 Sq.km</th>
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<tbody>
<tr>
<td>Commercial Capital</td>
<td>Colombo</td>
</tr>
<tr>
<td>Population</td>
<td>Approx. 21 Million</td>
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<tr>
<td>Population Growth</td>
<td>1.1%</td>
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<tr>
<td>Unemployment</td>
<td>4.7%</td>
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<tr>
<td>Principal import sources</td>
<td>China 21.7%, India 19.7%, Singapore 6.1%</td>
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<tr>
<td>GDP</td>
<td>80.591 Billion USD</td>
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<tr>
<td>Real GDP Growth</td>
<td>4.4% YTY</td>
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<tr>
<td>GDP Per Capita</td>
<td>11,068.996 USD (Purchasing Power Parity-PPP)</td>
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<tr>
<td>Inflation</td>
<td>3.8% YTY</td>
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<tr>
<td>Electrification</td>
<td>95%</td>
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<tr>
<td>Electrical Power Generation</td>
<td>4017 MW (2,115 MW-Thermal, 1,726 MW-Hydro, 176 MW-Renewable sources)</td>
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<tr>
<td>Total Power consumption</td>
<td>14,149 GWh</td>
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Scenic Beauty of Sri Lanka
Economy

Sri Lanka’s most dynamic sectors are:

- Textiles and Apparel
- Food and Beverage
- Port and Highway Constructions
- Telecommunication
- Infrastructure
Exports

Apart from traditional items like Tea & Rubber, other key exports include:
- Coconut & Coconut Products
- Aquarium Fish, Aquaculture & Seafood
- Light Engineering Products
- Handicrafts & handloom Textiles
- Apparel & Accessories
- Porcelain & Ceramic products
- Gem & Diamond Jewelry
- Granite & Mineral sands
- Fresh fruits & Cut Flowers
- Cinnamon & variety of spices.
Agricultural Background

- Agricultural based country
- 1.887 mill ha. of Arable land available
- 1.0 mill ha. Under permanent plantation crops (tea, Coconut, rubber and spices)
- Rice, Maize, Vegetable, pulses, oil crops and condiments are the main crops grown
Climatic Condition

- Four main climatic regions
  - Wet zone
    (Annual rainfall more than 2500 mm)
  - Dry zone
    (Annual rainfall less than 1750 mm)
  - Intermediate zone
    (Annual rainfall less than 2500 mm and more than 1750 mm)
Economic Condition

- Economically active population is 38% of total population (about 8.2 million);
  - 27% engaged in agriculture
  - 28% industries sector
  - 45% service sector
- Contribution to GDP from agriculture is 7.5%
- Growth rate is 12% in agriculture
Cost of Cultivation

Power 38%
Labor 30%
Material 32%

Cost of production for paddy in large scale cultivation
Cost of Cultivation

Power 29%

Material 14%

Labor 57%

Cost of production for paddy in small scale cultivation
Cost of Cultivation

Cost of cultivation for Chilli

- Labor: 82%
- Material: 13%
- Power: 5%
Major Problems in Cultivation

- Labour scarcity in peak demand
- Unpredictable Climate change
- Lack of organized Marketing mechanism
- Poor access to new technology
Mechanization Status

- **Land Preparation**
  Almost fully mechanized. However there is an urgent need for an appropriate implement for bund (levee) clearing and plastering.

- **Irrigation**
  Most areas are covered with well planned surface irrigation systems. Small scale irrigation pumps are used in some areas and micro irrigation systems are used in protected agriculture applications.

- **Plant Establishment**
  All crops, including Paddy, are established manually. However, a manually operated raw seeder was developed and introduced successfully during the past year.
Mechanization Status cont.

- **Harvesting**
  Almost 90% of the Paddy harvesting is mechanized and only the cultivation done in terraces and in boggy fields in the wet zone are manually harvested. This issue is being addressed at present.

- **Processing**
  Whilst there is a lot of scope for mechanizing postharvest operations of all crops only the Paddy processing, for both seed and Rice production are mechanized at various levels.

- **Storage**
  Though conditioned storage facilities are a current need, specially for all perishables, limited facilities are available only for some exotic products like cut flowers, fruits and vegetables for the export market.
Workshop on Harvesting and Postharvest Mechanization to Support Food Security in Asia and Africa
Harvesting & Threshing

- Locally manufactured Paddy reaper and High/Low capacity thresher combination is extensively used by small scale farmers in both Wet and Dry Zone.

- Combined Harvesters, imported from India, China and Japan are predominantly used in the Dry Zone.
Processing

Multi-crop thresher with cleaning device

Groundnut Sheller
Mechanized Harvesting

5/26/18 Workshop on Harvesting and Postharvest Mechanization to Support Food Security in Asia and Africa
Threshing and Winnowing
Processing

Multi-crop thresher with cleaning device

Groundnut Sheller
Urgent needs

- Bund clearing and plastering implement
- Low cost motorized lowland weeder
- Paddy dryer
- Establishment of Regional Farm Machinery Testing Centre
Rice Processing

Village level paddy parboiling method
Paddy parboiling plant
Latest Machines Used for Rice processing
A Modern Rice Mill
Projects Implemented

Designed and introduced Dust Free Rice Processing Lines “Samanala” Rice Mill- Anuradhapura
Projects Implemented Cont...

Designed and introduced Dust Free /GMP certified Rice Processing Lines “Rayin Rice Mill-Kurunegala”
Weighing and Packing
Rice Flour Processing Machines

Pin Mill (Disk Mill)

Plate Mill (Abrasive Plate Mill)

Roller Mill
Small Scale Machines

- Tomato grader
- Rice flaking machine
- Pulse dehuller machine
- Fruit pulping machine
- Medium scale maize Sheller
Traditional method for Oil extraction
Other Small Scale Machines for Oil Extraction

- OIL EXPELLOR
- VIRGIN COCONUT OIL EXPELLOR
- DISK MILL MACHINE
Thank You!