The Potato Industry in Developing Countries

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Chair, International Potato Centre
1. History
Tunta processing in Illave, Puno, Peru. July 2005
Potato Late Blight
2.0 Overview of Production
Potato distribution

Each dot represents 1000 ha
Average 1997-1999
prepared by: R. Hijmans
Major crop production

Production (000, T)

- Maize
- Potatoes
- Rice, Paddy
- Wheat
## Top producer countries

<table>
<thead>
<tr>
<th>Rank</th>
<th>Production (MT)</th>
<th>avg (2003-5)</th>
<th>% of global production</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>China</td>
<td>70.40</td>
<td>22</td>
</tr>
<tr>
<td>2</td>
<td>Russian</td>
<td>36.35</td>
<td>11</td>
</tr>
<tr>
<td>3</td>
<td>India</td>
<td>25.00</td>
<td>8</td>
</tr>
<tr>
<td>4</td>
<td>USA</td>
<td>20.20</td>
<td>6</td>
</tr>
<tr>
<td>5</td>
<td>Ukraine</td>
<td>19.57</td>
<td>6</td>
</tr>
<tr>
<td>6</td>
<td>Poland</td>
<td>12.91</td>
<td>4</td>
</tr>
<tr>
<td>7</td>
<td>Germany</td>
<td>11.50</td>
<td>4</td>
</tr>
<tr>
<td>8</td>
<td>Belarus</td>
<td>8.90</td>
<td>3</td>
</tr>
<tr>
<td>9</td>
<td>Netherlands</td>
<td>6.93</td>
<td>2</td>
</tr>
<tr>
<td>10</td>
<td>France</td>
<td>6.65</td>
<td>2</td>
</tr>
</tbody>
</table>

Total share of top 10 countries  68
Production changes in countries: top “winners” and “losers”

Potato production change (2004 vs 1994; 3 yrs average)

- Burkina Faso
- Jamaica
- Bahrain
- Eritrea
- Estonia
- Turkmenistan
- Azerbaijan, Republic of
- Nigeria
- Rwanda
- Angola
Production shift

Potato production (Tonnes) by country groups

Potato production by country groups
Area shift

Harvested potato area (Ha) by country groups

Harvested potato area by country groups

Developed
Developing
Shifts in developed vs developing world

changes in crop production 04 vs 94 (3 yrs average) in developed and developing countries
2.1 Sub Saharan Africa
Changes in Sub-Saharan Africa

Changes in crop production 04 vs 94
(3 yrs average) Sub Sahara Africa

% change

Wheat
Sweet Potatoes
Rice
Potatoes
Maize
Barley
Bananas
2.2 North Africa and the Middle East
2.3 Asia
Potato distribution

Each dot represents 1000 ha
Average 1997-1999
prepared by: R. Hijmans
2.4 Latin America
2.5 Europe and North America
3.0 Global Issues affecting the Developing World
Millennium Development Goals

“We will spare no effort to free our fellow men, women, and children from the abject and dehumanizing conditions of extreme poverty, to which more than a billion of them are currently subjected.”

United Nations Millennium Declaration - September 2000

1. Eradicate extreme poverty and hunger
2. Achieve universal primary education
3. Promote gender equality and empower women
4. Reduce child mortality
5. Improve maternal health
6. Combat HIV/AIDS, malaria, and other diseases
7. Ensure environmental sustainability
8. Develop a global partnership for development
3.1 Trade
3.2 Climate Change
Altiplano, Peru
Ploughed areas dark brown for next season’s crops
Ploughed with Inca hand plough
3.3 Dissemination of technology and information
Education and Extension

Africa

Cameroon

Vietnam

Peru
3.4 Poverty
Urban population growth and urban poverty

1.3 billion more people living in urban areas by 2020

One billion now living in urban slums
UN-Habitat 2003
3.5 Women
3.6 AIDS
3.7 Environmental Degradation
World Population (millions)
(1990 blue, 2025 red)

- Sub Sahara Africa
- Middle East
- South Asia
- Far East
- Latin America
- Europe FSU
- North America Oceania

Total
Mountains, Soil, Water

Peru

Indonesia
3.8 Hunger and Nutrition
Potato food supply in context
- crops in Low Income Food Deficient countries -

Food supply of major cereals and roots in "Low income - food deficient" countries
(based on 3 years averages)

Change of food supply 2002 vs 1992 (3 yrs avg)
3.9 Genetic Modification
3.10 Structural changes, subsistence farming and commercial supply chains
Harvesting Potatoes

Indonesia

Vietnam

Cameroon

Chacas, Peru
3.11 Research
Research
CIP’s Mission

The International potato Center (CIP) will contribute to reducing poverty and achieve food security on a sustained basis in developing countries through research and related activities on potato, sweetpotato, and other root and tuber crops and on the improved management of natural resources in the Andes and other mountain areas.
15 Centers of the CGIAR
CIP’s Vision

The International potato Center (CIP) will contribute to reducing poverty and hunger; improving human health; developing resilient, sustainable rural and urban livelihood systems; and improving access to the benefits of new and appropriate knowledge and technologies.

CIP, a World Center, will address these challenges by convening and conducting research and supporting partnerships on root and tuber crops and on natural resources management in mountain systems and other less-favoured areas where CIP can contribute to the achievement of healthy and sustainable human development.
Thank you for your attention

Aroma, Bolivia
altitude 3,800 m