Integrating Biodiversity with Food and Nutrition Security in Brazil

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Commission on Genetic Resources for Food and Agriculture – CGRFA
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The Brazilian Agriculture

• Dependent on exotic species

The Great Paradox

• Brazil - the largest biodiversity of the world
• Biodiversity has not been much explored

Simplification x Diversification

• Traditional and indigenous foods - neglected and forgotten
• Simplified diet instead of diversified diet

New options

• Species used at local and regional levels
Prioritized native species - “Plants for the Future”

70 edible fruit species
Biodiversity for Food and Nutrition Database

- Agreement with Ministry of Science, Technology and Innovation
- Inclusion on SiBBr platform development by WCMC-UNEP
- Platform launched in Nov/2014, database Jul/2015 (expected)
National Policy on Minimum Prices for products from Socio-biodiversity (PGPM-Bio) National Plan for the Promotion of Socio-biodiversity Product Chains (PNPSB)

Promote biodiversity conservation with income generation and the promotion of food security to indigenous and local communities

Photo credit: Conab
National Plan for Promotion of Socio-Biodiversity Product Chains (PNPSB)
# PGPM-Bio and PNPSB - Products

## 10 new Products

Price evaluation being conducted

<table>
<thead>
<tr>
<th>Produto</th>
<th>Unidade da Federação/Regiões Amparadas</th>
<th>Preços Mínimos (R$/kg)</th>
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</thead>
<tbody>
<tr>
<td>Açaí (fruto)</td>
<td>Norte, Nordeste e MT</td>
<td>1,07</td>
</tr>
<tr>
<td>Andiroba (semente)</td>
<td>Norte, Nordeste e MT</td>
<td>2,14</td>
</tr>
<tr>
<td>Babaçu (amêndoa)</td>
<td>Norte, Nordeste e MT</td>
<td>2,49</td>
</tr>
<tr>
<td>Baru (fruto)</td>
<td>Bioma Cerrado</td>
<td>0,25</td>
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<tr>
<td>Borracha Natural Extrativista (Cerrado)</td>
<td>Bioma Amazônico</td>
<td>4,50</td>
</tr>
<tr>
<td>Cacau Extrativo (amêndoa)</td>
<td>Norte</td>
<td>5,46</td>
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<tr>
<td>Coqueiro do Ceará Tipo 1</td>
<td>Nordeste</td>
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<tr>
<td>Castanha do Brasil (com casca)</td>
<td>Norte e MT</td>
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<td>Juçara (fruto)</td>
<td>Sul e Sudeste Nordeste</td>
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<td></td>
<td>Nordeste</td>
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<td>Mangaba (fruto)</td>
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<td></td>
<td>Sudeste e Centro Oeste</td>
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<td>Pequi (fruto)</td>
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<td>Sudeste e Centro-Oeste</td>
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<td>Prata (flora)</td>
<td>Ribeira</td>
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<td></td>
<td>Norte</td>
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<tr>
<td>Prê-Café Tipo B</td>
<td>Nordeste</td>
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</tr>
<tr>
<td>Umbu (fruto)</td>
<td>Brasil</td>
<td>0,52</td>
</tr>
</tbody>
</table>

- BACURI (Fruit)
- BURITI (Fruit and Mass)
- FAVA D’ ANTA (Pod)
- MURUMURU (Fruit)
- LICURI (Coconut)
- MACAÚBA (Fruit)
- YERBA MATÉ
- PINHÃO (Fruit)
- MURICI (Fruit)
- PIRARUCU (Fish – management areas)
Food Procurement Program (PAA)

- Beneficiaries: family farmers and people in situation of food insecurity
- Purchase from family production and donation to social assistance entities
- Educational bias: it forces the community to organize themselves (associations, cooperatives). Several networks have been established.
- Pays 30% more for organic and agro-ecological food
- Prioritize indigenous communities and quilombolas
School Feeding Programme - PNAE

- Promotion of healthy eating habits and the provision of healthy meals that should cover at least 20% of the nutritional needs during the school year
- >40 million students
- At least 30% of federal funds transferred has to be spent with products from family farmers

Photo credit: MMA
National School Feeding Program - PNAE

Training to technical personnel (06/11/2014)

- Strengthen BFN on PNAE
- Deepen the discussion

Universities - Online course “Biodiversity for Food and Nutrition”

- Definition of modules and approach (outline)
  - Development – 2015
School Gardens - PNAE

Project “Educating with School Gardens and Gastronomy”

• Rescue of food culture and more dynamic scholar curricula (multidisciplinary)
• Partnership with FAO

Highlight BFN and diversify gardens with traditional and non-conventional vegetables

• Technical support (materials, videos)
• Seeds and seedlings
• Tree nursery (native fruit species)
“Health in School” Program - PNAN

- Integral health assistance for children in school
- Evaluation of nutritional status
- Healthy eating lessons

2013
- 4,785 municipalities (85.9%)
- 29,672 primary care teams

Training materials

Photo credit: Ministry of Health
Other Public Policies

Goal 10 - to invest R$ 20.2 million in natural resources, emphasis on socio-biodiversity products

Initiative 3 – Nutritional value of 40 native species of the Brazilian flora

Objective 0506 – Promote sustainable use and valuation of biodiversity
  • Nutritional characterization – 40 species
  • Promote use of 12 underutilized species
Revised NBSAP:
• Vision and principles
• National Biodiversity Targets 2011-2020
  • Monitoring Strategy – indicators (PainelBio)
• Actions plans: Governmental Action Plan and Guidelines for the Multi-year Budget Planning 2016-19: Conservation and Sustainable Use of Biodiversity
• Strategy for resource mobilization and capacity
• National Reports to the CBD (every 4 years) – including assessment of the degree of achievement of the National Biodiversity Targets
Gastronomic Events - Brasilia

Goal - to publicize and promote the use of native species

More than 1500 people tasting the delights of Brazil’s biodiversity
Gastronomic Events - Porto Alegre/RS

Biologia pelo BOCa
2014

Mostra e degustação de alimentos da Mata Atlântica, Pampa e Cerrado

Dia 29/11 - Sábado no Parque Farroupilha
Rua Jose Bonifacio, próximo à rua Santa Teresinha Porto Alegre, RS
entre o Parquinho da Redenção e a FAE - Feira dos Agricultores Ecologistas

Traga sua caneca

InGá - Instituto Gaúcho de Estudos Ambientais convida
Gastronomic Events – Goiânia/GO
Weekly Botanical Garden Fair
Thank You!

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“Value new tastes and aromas
Try native flavors”