Biodiversity conservation – Nestlé point of view

2016 Business & Biodiversity Forum

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Feeding 9+ bio people by 2050

Threats or opportunities

Soils & Soil Health

Biodiversity & Genetics

Water in Agriculture

Energy Pricing

Training & Assistance

Policy Interventions
Farmer Connect Outreach

30 milk markets
11 coffee markets
7 cocoa markets

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<thead>
<tr>
<th></th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
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<tbody>
<tr>
<td>Direct sourcing staff:</td>
<td>1’200</td>
<td>1’290</td>
<td>1’200</td>
</tr>
<tr>
<td>Supply chain support staff:</td>
<td>11’400</td>
<td>12’100</td>
<td>9’700</td>
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<td>Farmers supplying directly to Nestlé:</td>
<td>686’000</td>
<td>695’000</td>
<td>760’000</td>
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<td>Farmers received training:</td>
<td>300’000</td>
<td>375’000</td>
<td>400’000</td>
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Source: CSV Reports 2013, 2014, 2015; SAIN: Sustainable Agriculture Initiative Nestlé

13 January, 2017
Corporate Agriculture
Genetic erosion *Focus on a small number of crops and traits*

**7000 plant species are edible**

**ONLY**
5 cereal crops provide 2/3 of our plant energy intake*

**ONLY**
12 crops provide 75% of the world’s food

Nutrient content varies among species and among varieties within a species

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* Plant cover 80% of human energy

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Figure 2: The decrease of food variety – 80 years evolution of a sample of ten crops in the USA.

([Source: Adapted from National Geographic: Rural Restoration Foundation International])
Biodiversity  *An opportunity for nutrition*

Genetic improvements and optimized environments can increase crop traits such as yields (but) increasing yields may likely reduce concentrations of some other nutrient!

**FOSTERING AGRO-BIODIVERSITY**

- Increase global nutrition security
- Build resilient agro-ecosystems
- Contribute to prevent health issues

**BIODIVERSITY FOR NUTRITION**

Source: Linking biodiversity and nutrition- bioversity.org
Some sweet potato cultivars can vary in carotenoid content by a factor of 200 or more.

Nutrient composition in Cassava ranges strongly among varieties: per 100 g of edible portions, protein content can vary from 0.7 to 6.4 g and beta-carotene content from <5 to 790 mcg (micrograms).

Iron and zinc content in rice might differ by a factor of 2.5 and 1.5 respectively. Hence, the varieties with higher nutritional content usually are traditional varieties, whereas
Summary

• **Sustainable Agriculture Initiative Nestlé (SAIN):** Dissemination of good agricultural practices and care on biodiversity.

• **Integrate biodiversity** into all our Nestlé programs such as Farmer Connect, the Nescafé Plan, the Cocoa Plan, the Dairy Sourcing Plan, or the Nespresso AAA.

• **Biodiversity stewardship:** advocate and promote biodiversity topics throughout different industry platforms.