Delta Framework

Delta Framework Sustainability Indicators

A common set of environmental, social, and economic indicators to measure sustainability at farm-level across cotton and coffee sectors

Environmental Indicators

Use of Highly Hazardous Pesticides (HHPs)

Unit: kg active ingredient (a.i.) of HHPs per ha of harvested land

2 Pesticide risk indicator

Unit: specific model score per ha of harvested land

Irrigation water management

3.1 Water extracted for irrigation

Unit: water extracted for irrigation (blue water) per ha of harvested land

3.1 Irrigation efficiency

Unit: percentage of water actually required for irrigation over water extracted for irrigation

3.3 Water productivity

Unit: yield (kg of cotton lint or GBE) per m3 of water consumed per ha of harvested land

- 4 **Topsoil carbon content** Unit: grams of organic carbon per tonne soil per ha of harvested land
- 5 Fertiliser use by type and Nitrogen Use Efficiency Unit: kg a.i. of N, P, K per ha of harvested land
- Forest, wetland and grassland converted for crop production

Unit: ha of forest, wetland or grassland converted to crop production

Greenhouse gas emissions

Unit: kg CO₂ equivalent per kg seed cotton or coffee cherries

Economic Indicators

8 Yield (average)

Unit: kg cotton lint or GBE per ha of harvested land

Gross margin from crop production

Unit: USD per ha seed cotton or GBE In future: Living Income **Price at farmgate** (for premium-based organisations) Unit: local currency per tonne of seed cotton or GBE

Proportion of workers earning a legal minimum wage (or above) by sex and by age Unit: proportion (%) of workers earning a legal minimum wage (or above) over the total number of workers working on the farm by sex and age

Social Indicators

Incidence of child labour

14 Women's empowerment

Unit: number of children aged 5 to17 years engaged in child labour, by sex and age

13 Incidence of forced labour

Unit: number of people aged over 17 years engaged in forced labour, by sex and age

Unit: Women's Empowerment score

Frequency of fatalities and non-fatalities on the farm

Unit: % of fatalities and non-fatal occupational injuries on farm (while working on the cotton or coffee crop)

Units: GBE coffee Green Bean Equivalent; ha hectare; kg kilogram

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Swiss Confederation

Federal Department of Economic Affairs, Education and Research EAER State Secretariat for Economic Affairs SECO