



Food and Agriculture
Organization of the
United Nations

SUSTAINABLE
DEVELOPMENT
GOALS



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ASIA AND PACIFIC COMMISSION ON AGRICULTURAL STATISTICS

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SIDE EVENT B: B5.2: Vietnam Experiences with Farm-based SDG indicators

Presenter: Ha DO THI THU



Metadata

Lead Ministry/Agency	General Statistics Office (GSO)
Data users	Mid-term survey on Rural and Agriculture
SDGi data source	2.4.1
Data collection year(s)	1/7/2020
Reference period	Last 12 month ago
Sample size	1% of agriculture living in rural area (33 thousands Agriculture household (AHH))
Data collection frequency	5 year
Data collection mode	CAPI
SDGi reporting status	Public

General information

- In 2020, Viet Nam added SDG indicator 2.4.1 to the Viet Nam National Statistical Indicator System with the evaluation cycle of every 5 years. This is an effort of the Statistics Sector in particular and Viet Nam in general in monitoring sustainable development goals set by the United Nations.
- Information on SDG indicator 2.4.1 was collected by GSO in 2020 right after FAO finalized the methodology in 2019. The number of samples used to calculate this indicator is 33,376 households, corresponding to an agricultural production land area of 22,214.88 hectares.

General information

- Measurement of Indicator 2.4.1 is therefore operationalized through a core set of 11 themes for global reporting purposes. Selecting the most appropriate sub-indicator for each theme is a distinct step in the process. For any given theme, there may be multiple sub-indicators that are relevant and/or measurable.
- The list of selected themes and sub-indicators is shown in below. There are 11 themes included. The methodology for the compilation of the sub-indicators and for defining the associated sustainability criteria is described in detail in the specific results for each indicator.

List of 11 sub-indicator for SDG 2.4.1

No.	Dimension	Theme	Subindicator	Reference period
1	Economic	Land productivity	Farm output value per hectare	Last calendar year
2		Profitability	Net farm income	Last 3 calendars year
3		Resilience	Risk mitigation mechanisms	Last calendar year
4	Enviromental	Soil health	Prevalence of soil degradation	Last 3 calendars year
5		Water use	Variation in water availability	Last 3 calendars year
6		Fertilizer pollution risk	Management of fertilizers	Last calendar year
7		Pesticide risk	Management of pestiscide	Last calendar year
8		Biodiversity	Use of biodiversity-supportive practices	Last 3 calendars year
9	Social	Decent employment	Wage rate in agriculture	Last 3 calendars year
10		Food security	Food insecurity experience scale FIES	Last 12 months
11		Land tenure	Secure tenure rights to land	Last calendar year

Indicator results

- The results of SDG indicator 2.4.1 show that promoting sustainable agricultural development in Viet Nam is necessary and urgent for a green, responsible agriculture, ensuring increased economic value and improved livelihoods for farmers and solving environmental problems, climate change, social security with the key as development of circular agriculture, organic agriculture, inclusive ecological agriculture

Indicator results

Sustainability of sub-indicator “Farm output value per hectare” by region

Unit: %

	Desirable	Acceptable	Unsustainable	Sustainable
	1	2	3	4=1+2
Whole country	11.02	30.22	58.76	41.24
ĐBSH	18.82	46.87	34.31	65.69
TDMNPB	6.91	14.30	78.79	21.21
BTB&DHMT	9.86	24.71	65.43	34.57
TN	10.53	33.81	55.66	44.34
ĐNB	8.73	17.84	73.43	26.57
ĐBSCL	14.46	44.88	40.66	59.34

Indicator results

Sustainability of sub indicator “Net farm income” by region

Unit: %

	Desirable	Acceptable	Unsustainable	Sustainable
	1	2	3	4=1+2
Whole country	49.50	42.26	8.24	91.76
DBSH	57.42	33.43	9.15	90.85
TDMNPB	45.53	44.85	9.62	90.38
BTB&DHMT	46.05	46.45	7.50	92.50
TN	44.48	43.73	11.79	88.21
DNB	56.77	37.52	5.71	94.29
DBSCL	53.35	40.92	5.73	94.27

Indicator results

Sustainability of sub indicator “Risk mitigation mechanisms” by region

Unit: %

	Desirable	Acceptable	Unsustainable	Sustainable
	1	2	3	4=1+2
Whole country	7.67	32.22	60.11	39.89
DBSH	2.50	24.90	72.60	27.40
TDMNPB	16.66	42.07	41.27	58.73
BTB&DHMT	9.12	32.88	58.00	42.00
TN	7.56	37.77	54.67	45.33
DNB	3.86	26.67	69.47	30.53
DBSCL	2.63	23.92	73.45	26.55

Indicator results _ENVIRONMENTAL DIMENSION

Sustainability of the sub-indicator “Prevalence of soil degradation”

Unit: %

	Desirable	Acceptable	Unsustainable	Sustainable
	1	2	3	4=1+2
Whole country	68.62	15.10	16.28	83.72

Sustainability of the sub-indicator “Variation in water availability”

Unit: %

	Desirable	Acceptable	Unsustainable	Sustainable
	1	2	3	4=1+2
Whole country	29.85	15.54	54.61	45.39

Indicator results _ENVIRONMENTAL DIMENSION

Sustainability of sub-indicator “Management of fertilizers”

Unit: %

	Desirable	Acceptable	Unsustainable	Sustainable
	1	2	3	4=1+2
Whole country	29.61	50.00	20.39	79.61

Sustainability of sub-indicator “Management of pesticides”

Unit: %

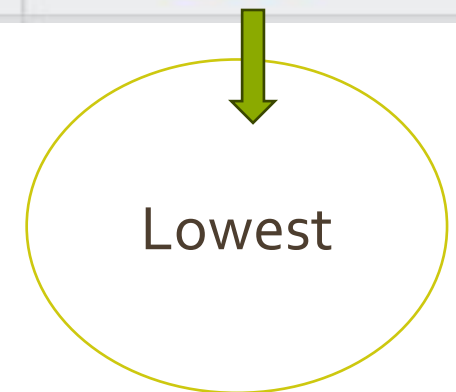
	Desirable	Acceptable	Unsustainable	Sustainable
	1	2	3	4=1+2
Whole country	29.87	9.16	60.97	39.03

Indicator results - ENVIRONMENTAL DIMENSION

Sustainability of sub-indicator “Use of agro-biodiversity-supportive practices”

Unit: %

	Desirable	Acceptable	Unsustainable	Sustainable
	1	2	3	4=1+2
Whole country	8.18	29.59	62.23	37.77



Indicator results - SOCIAL DIMENSION

Sustainability of sub-indicator “Food Insecurity Experience Scale (FIES)”

Unit: %

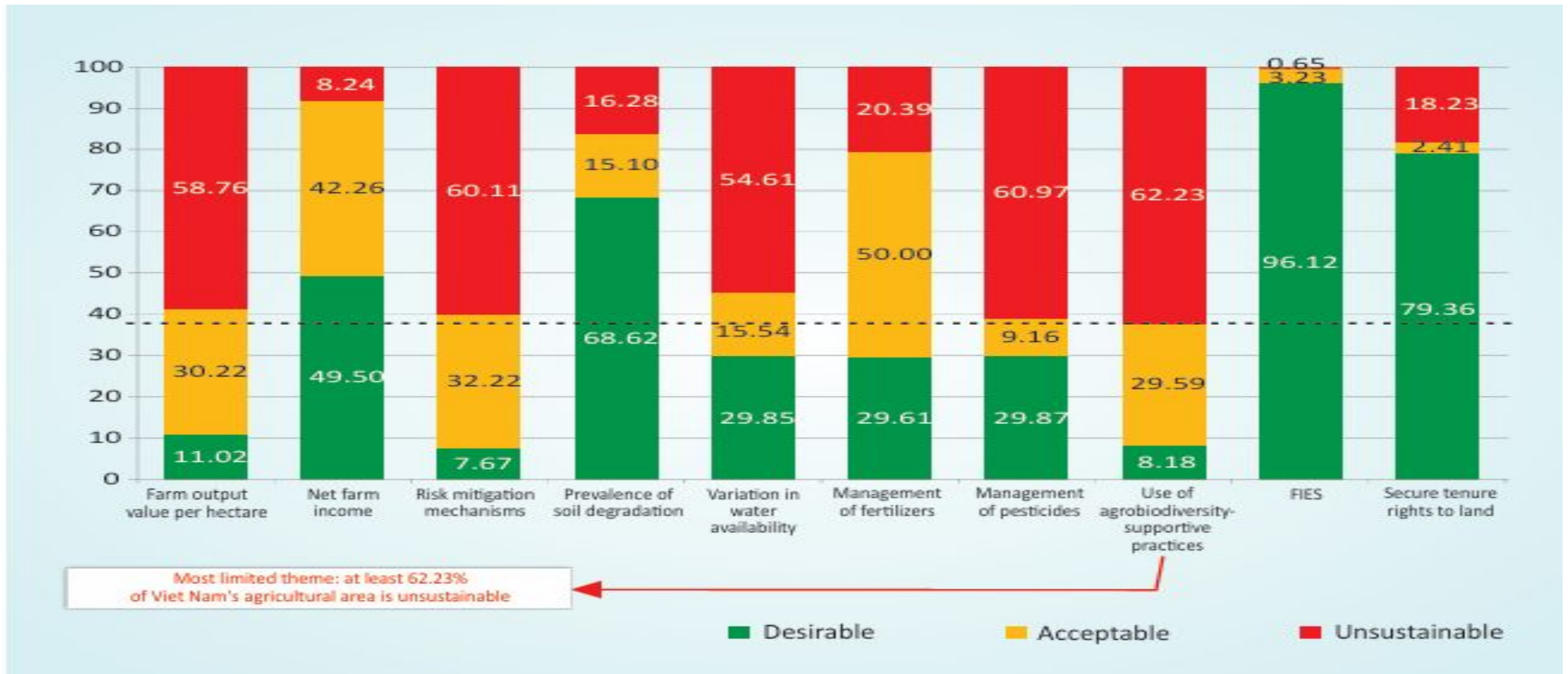
	Desirable	Acceptable	Unsustainable	Sustainable
	1	2	3	4=1+2
Whole country	96.12	3.23	0.65	99.35

Sustainability of sub-indicator “Secure tenure rights to land”

Unit: %

	Desirable	Acceptable	Unsustainable	Sustainable
	1	2	3	4=1+2
Whole country	79.36	2.41	18.23	81.77

Indicator results - Dashboard



Adaptation of indicator to national context

1. Only focus on crops and crops and livestock mixed, but didn't take into account the agriculture holdings that are primarily focused on livestock production since the agriculture holdings that are primarily focused on livestock production don't have agriculture land which is used in the nominator of the calculation formular for SDG 2.4.1.
2. Didn't take into account irrigation as one of the certification variables for disaggregated results because it doesn't make any significant change in terms of its impact on the value of production.
3. Didn't estimate the sub-indicator “Wage rate in Agriculture” in dashboard because this sub-indicator not enough information for comparison with relevant surveys

Interpretation

- GSO has reviewed information on survey sample, from a total of more than 46 thousand selected agricultural, forestry and fishery production households/farm holdings, to filter more than 33 thousand crop households/farm holdings and households/farm holdings producing mixed crops and livestock which have agricultural land area of 200 m² or more (hereinafter abbreviated as "household") to calculate sub-indicators which are used to measure SDG indicator 2.4.1

Recommendations to other countries and to FAO

- FAO plan to provide training to better understand how to calculate FIES so that GSO can apply its own calculation at the regional level.
- FAO HQ, FAO regional Office and UNSD to find funding sources to recruit experts to help GSO in sampling design for the SDG 2.4.1 survey in the 2025 Agriculture Census
- The training course on SDG 2.4.1 in 2019 by experts from FAO imparted a lot of useful knowledge to GSO, Viet Nam. This is an important foundation for us to decide to survey SDG indicator 2.4.1 for the first time in 2020.

Thank you for your attention!

Contact: Do Thi Thu Ha, GSO

