



Food and Agriculture
Organization of the
United Nations

SUSTAINABLE
DEVELOPMENT
GOALS



APCAS/24/B2.2

ASIA AND PACIFIC COMMISSION ON AGRICULTURAL STATISTICS

30TH SESSION

19–24 May 2024
Kathmandu (Nepal)



BETTER
PRODUCTION



BETTER
NUTRITION



BETTER
ENVIRONMENT



BETTER
LIFE





SIDE EVENT B: Country Experiences with Farm-based SDG indicators

B2.2: Cambodia Experience with SDGi 2.3.1 “Productivity of small-scale food producers”

Presenter: Sotheavy Meas,
Dpt. Planning and Statistics,
Ministry of Agriculture, Forestry and Fisheries



Metadata SDGi 2.3.1

Lead Ministry/Agency	Ministry of Planning / National Institute of Statistics & Ministry of Agriculture, Forestry and Fisheries (MAFF)
Data users	MAFF, Organization and Development Partners
SDGi data source	Cambodia Agriculture Survey Program (50x2030)
Data collection year(s)	2019, 2020, 2021 (in-process)
Reference period	1 July year "n" - 30 June year "n+1"
Sample size	~ 16,000 household holdings + 200 juridical holdings
Data collection frequency	Yearly
Data collection mode	CAPI (WB Survey Solutions)
SDGi reporting status	Reported in 2019, 2020; In-process for 2021

Survey questions / Adaptations (1)

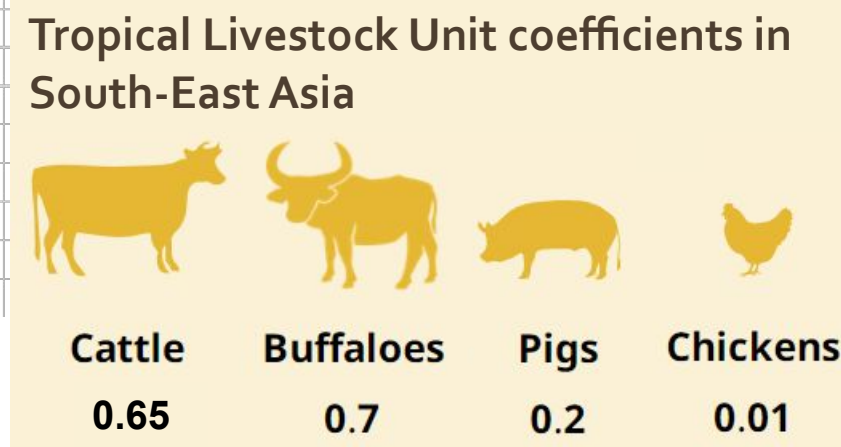
<i>Ask if Holding_TYPE==1</i>	
S2_Q13	S2_Q13. What is the total area of your homelot? * Include the house area
<i>Ask if IsAnswered(S2_Q13)</i>	
S2_Q13_unit	S2_Q13_unit. DO NOT READ OUT LOUD: Unit mentioned by the respondent. <input type="radio"/> 1 Hectares <input type="radio"/> 2 Ares <input type="radio"/> 3 Square meters
<i>Ask if Holding_TYPE==1</i>	
S2_Q14	S2_Q14. Do you grow crops on your homelot? <input type="radio"/> 1 Yes <input type="radio"/> 2 No
<i>Ask if S2_Q14==1</i>	
S2_Q15	S2_Q15. Of these %S2_Q13% %S2_Q13_unit%, what is the area on which you grow crops?
<i>Ask if IsAnswered(S2_Q15)</i>	
S2_Q15_unit	S2_Q15_unit. DO NOT READ OUT LOUD: Unit mentioned by the respondent. <input type="radio"/> 1 Hectares <input type="radio"/> 2 Ares <input type="radio"/> 3 Square meters
<i>Ask if Holding_TYPE==1</i>	
S2_Q16	S2_Q16. Do you raise livestock or poultry on your homelot? <input type="radio"/> 1 Yes <input type="radio"/> 2 No
<i>Ask if S2_Q16==1</i>	
S2_Q17	S2_Q17. Of these %S2_Q13% %S2_Q13_unit%, what is the area on which you raise livestock or poultry? * Include any area under the house that might be used to raise livestock or poultry

Adaptation 1:
The **homelot**, which is the area/parcel where the residence is, is **considered as a productive entity**. Included in the land size calculation.

Survey questions / Adaptations (2)

S4_Q01	S4_Q01. During 1 July 2019 through 30 June 2020, what type of animals were raised on the holding? * Select all that applies
	<input type="radio"/> 1 Livestock <input type="radio"/> 2 Poultry <input type="radio"/> 3 Insects
<i>Ask if S4_Q01.Contains(1)</i>	
S4_Q02	S4_Q02. What types of livestock were raised on the holding during 1 July 2019 through 30 June 2020? * Select all that applies
	<input type="radio"/> 101 Cattle <input type="radio"/> 102 Buffalo <input type="radio"/> 103 Horses <input type="radio"/> 104 Pig <input type="radio"/> 105 Goat
<i>Ask if S4_Q01.Contains(2)</i>	
S4_Q03	S4_Q03. What types of poultry were raised on the holding during 1 July 2019 through 30 June 2020? * Select all that applies
	<input type="radio"/> 201 Chickens <input type="radio"/> 203 Ducks <input type="radio"/> 205 Quail <input type="radio"/> 206 Swallow <input type="radio"/> 207 Turkeys <input type="radio"/> 208 Geese

Adaptation 2:
Focus on **priority livestock/poultry** to reduce interview length. Included in herd size calculation.



+ ask inventory/number of heads of all priority livestock/poultry

Survey questions / Adaptations (3)

S3_Q02	S3_Q02. What crops were produced on the %rostertitle% during 1 July 2019 through 30 June 2020? * Report all crops grown, regardless of the quantity harvested (even zero). * Report associated crops (mixed crops) grown * Report the presence for each crop grown * After each crop mentioned by the respondent, prompt "Anything else?"																								
	<table border="1"> <thead> <tr> <th></th> <th>Crop name</th> <th>Crop code</th> </tr> </thead> <tbody> <tr> <td>[CROP 1]</td> <td></td> <td>.</td> </tr> <tr> <td>[CROP 2]</td> <td></td> <td>.</td> </tr> <tr> <td>[CROP 3]</td> <td></td> <td>.</td> </tr> <tr> <td>[CROP 4]</td> <td></td> <td>.</td> </tr> <tr> <td>[CROP 5]</td> <td></td> <td>.</td> </tr> <tr> <td>[CROP 6]</td> <td></td> <td>.</td> </tr> <tr> <td>[CROP 7]</td> <td></td> <td>.</td> </tr> </tbody> </table>		Crop name	Crop code	[CROP 1]		.	[CROP 2]		.	[CROP 3]		.	[CROP 4]		.	[CROP 5]		.	[CROP 6]		.	[CROP 7]		.
	Crop name	Crop code																							
[CROP 1]		.																							
[CROP 2]		.																							
[CROP 3]		.																							
[CROP 4]		.																							
[CROP 5]		.																							
[CROP 6]		.																							
[CROP 7]		.																							
	<i>Ask if \$askcrop & IsAnswered(S3_Q13) && (S3_Q13>0 S3_Q13==999)</i>																								
S3_Q14	S3_Q14. What was the total quantity of %rostertitle% harvested during 1 July 2019 through 30 June 2020? * Include all production harvested from all %S3_Q12% harvest periods																								
	<i>Ask if IsAnswered(S3_Q14) && S3_Q14>0</i>																								
S3_Q14_unit	S3_Q14_unit. DO NOT READ OUT LOUD: Unit mentioned by the respondent.																								
	<input type="radio"/> 1 Kilograms <input type="radio"/> 2 Tons																								

Adaptation 3:
 Harvested quantity asked from **30 priority crops**, to reduce interview length: 19 temporary crops + 11 permanent crops. Included in economic size calculation (total revenues).

+ revenues from livestock/poultry, fishery, forestry

Survey questions / Adaptations (4)

S9_Q07_mont	S9_Q07_month. On average for how many months did occasional workers work on the holding's %roster% activity from 1 July 2019 to 30 June 2020?
S9_Q07_day	S9_Q07_day. How many days per month, on average?
S9_Q07_hour	S9_Q07_hour. How many hours per day, on average?

Adaptation 4:

Working day is 8h in Cambodia. **Capture comprehensive average number of months, days/month and hours/day worked** to calculate number of labour days.

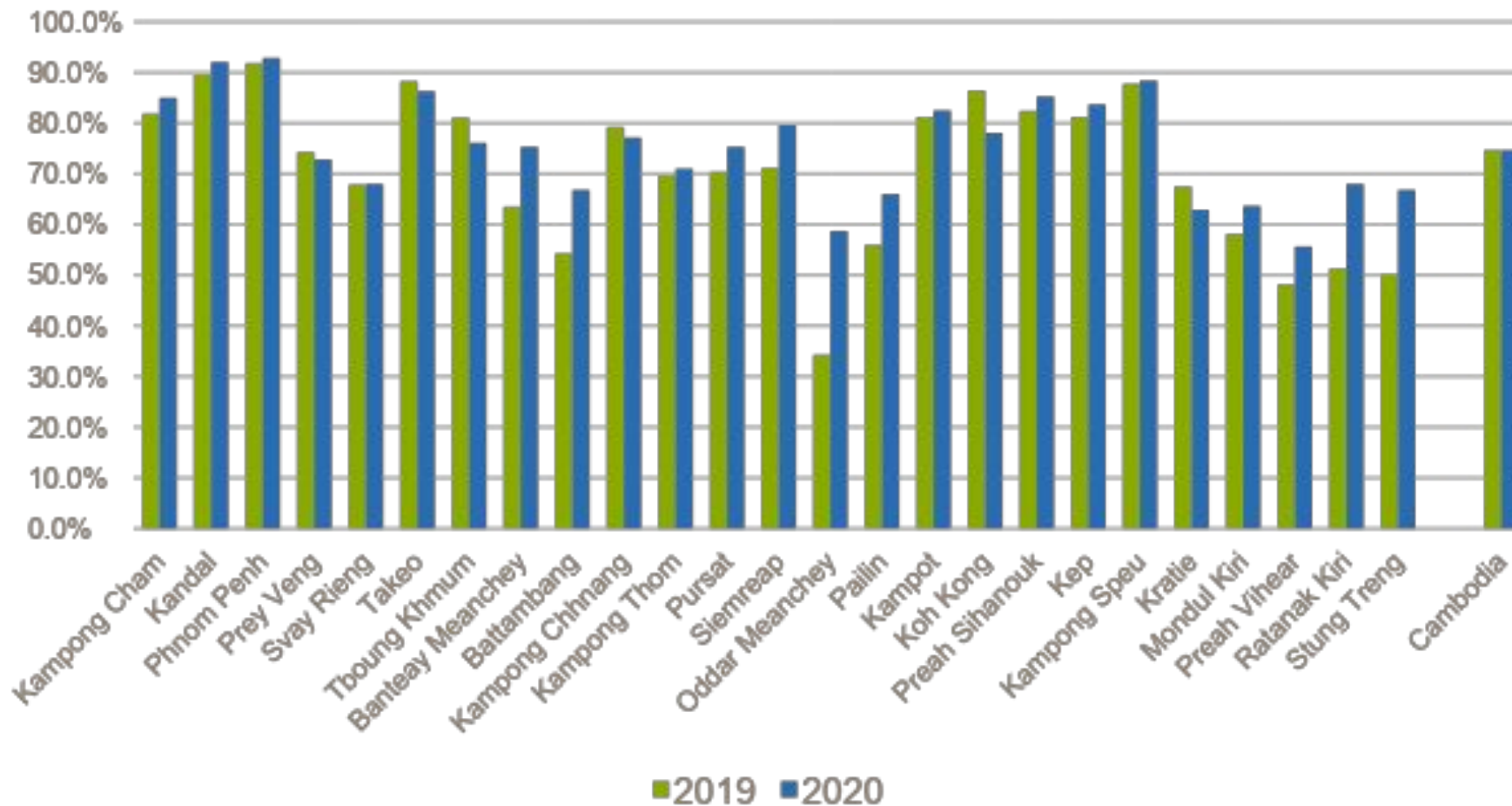
Adaptation 5:

Labour days calculated from:

- Household members
- Non-household members:
 - Occasional workers (for specific events like harvest, etc.)
 - External workers (regular part-time/full-time workers)

SDGi 2.3.1 Results – Identification Small-Scale Food Producers (SSFPs)

Percentage Small-Scale Food Producers, Cambodia (CIAS 2019 & CAS 2020)



2019 thresholds & SSFP:

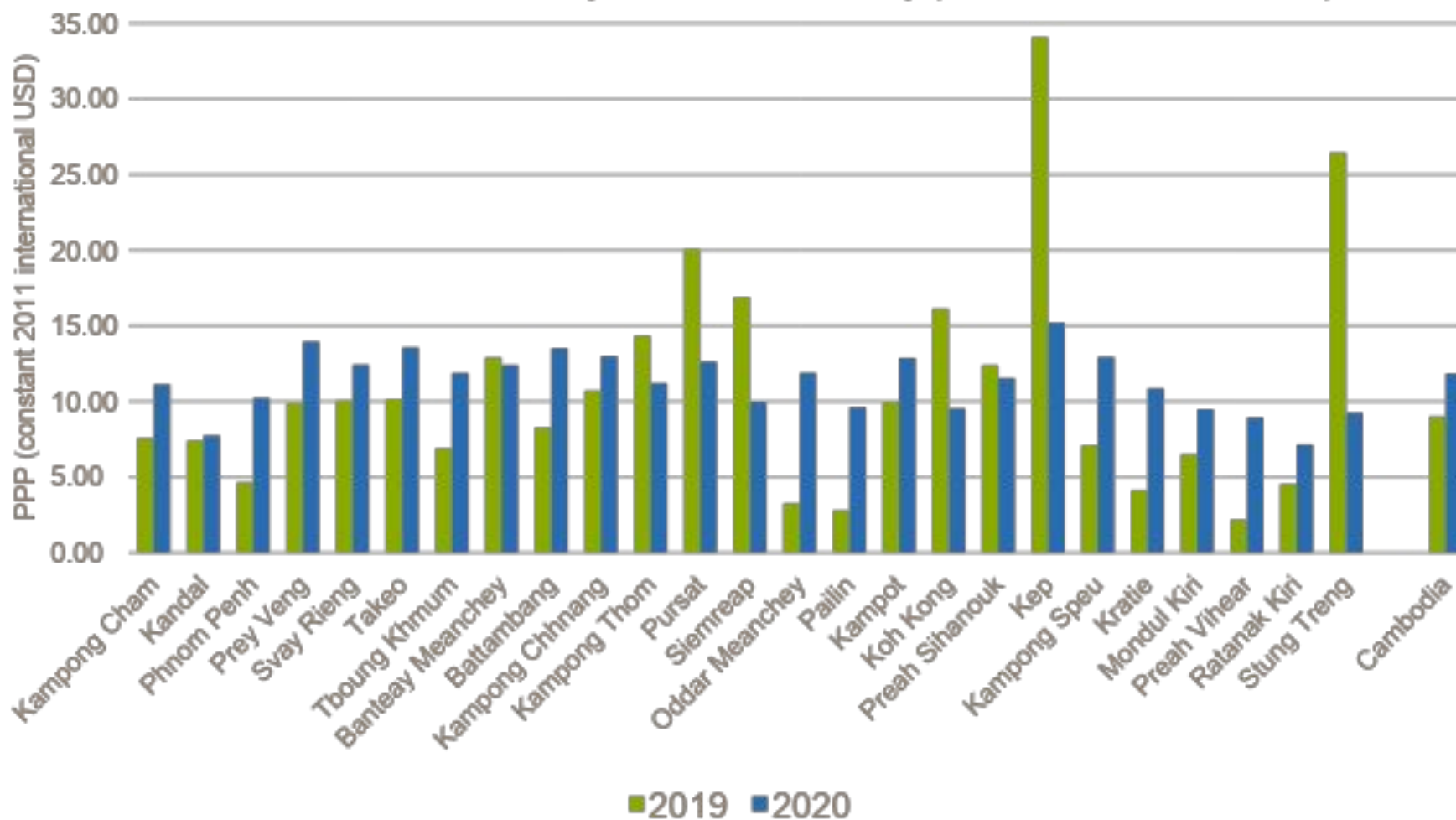
- Land size = 3.2ha
- Herd size = 2.85TLUs
- Revenues = 34,380 PPP\$
- 74.6% SSFPs

2020 thresholds & SSFP:

- Land size = 5.0ha
- Herd size = 3.29TLUs
- Revenues = 12,277 PPP\$
- 74.6% SSFPs

SDGi 2.3.1 Results – Labour productivity

SDG 2.3.1 Labour Productivity in PPP\$/labour day (CIAS 2019 & CAS 2020)



SDG 2.3.1:
 Constant 2011 International USD

- 2019: 13,183 KHR
- **2019: 9.02 PPP\$**
- 2020: 16,937 KHR
- **2020: 11.85 PPP\$**

SDG 2.3.1:
 Constant 2017 International USD
 FAO SDG Data Portal

- **2019: 8.84 PPP\$**
- **2020: 11.00 PPP\$**

Challenges, solutions



- Timeliness: 2021 data available since end 2023 but conflicting priorities so SDGis 2.3.1/2.3.2 cannot be produced on time
→ *Hands-on training in Cambodia in June 2024*
- Interview duration: lengthy questionnaire (~90min interview)
→ *Select priority items (livestock and crops)*
→ *Cost data collected in CAS 2021, SDGi 2.3.2 not compiled yet*
- Methodology: difficult to understand the conversion to PPP, and even more so to 2011 (or 2017?) constant standards
→ *FAO assisted on conversions*

Recommendations



- Need capacity building from FAO: SDG 2.3.1/2.3.2 not calculated every year; because lack of practice and staff turn-over, need regular training to NSO/MoA
- FAO to encourage priority commodities: Difficult to assess comprehensive Value of Production for ALL crops, livestock, etc. commodities (high respondent burden)
- Need clarification, clear guidelines/explanation on differences between values reported by country and those published on FAO SDG Data Portal (conversion to standard PPP\$?)



Thank you for your attention!

For more information, please visit:

Contacts:

H.E. Lay Chhan, Deputy Director General, SDG Focal Point, NIS, MoP
lay.chhan@gmail.com

H.E. Nor Vanndy, Director Dept. Economics and Statistics, CAS Focal Point, NIS, MoP
norvanndy@gmail.com

