



Baseline food security, diet diversity and consumption of target crops

Gaia Lochetti, Jessica Raneri, Gennifer Meldrum, Gina Kennedy

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In partnership with:



Linking agrobiodiversity value chains, climate adaptation and nutrition: Empowering the poor to manage risk

A baseline survey was conducted in the second half of 2015 to collect data on food and nutrition security, dietary diversity and consumption of target crops.

Chosen indicators:

- Months of Inadequate Food Supply
- HH food security indicators (HFIAS and CSI)
- Dietary diversity indicators (MDD-W and FCS)

Target Sites

Mali

- 414 Households;
- Ségou and Sikasso regions;
- 8 Villages

India

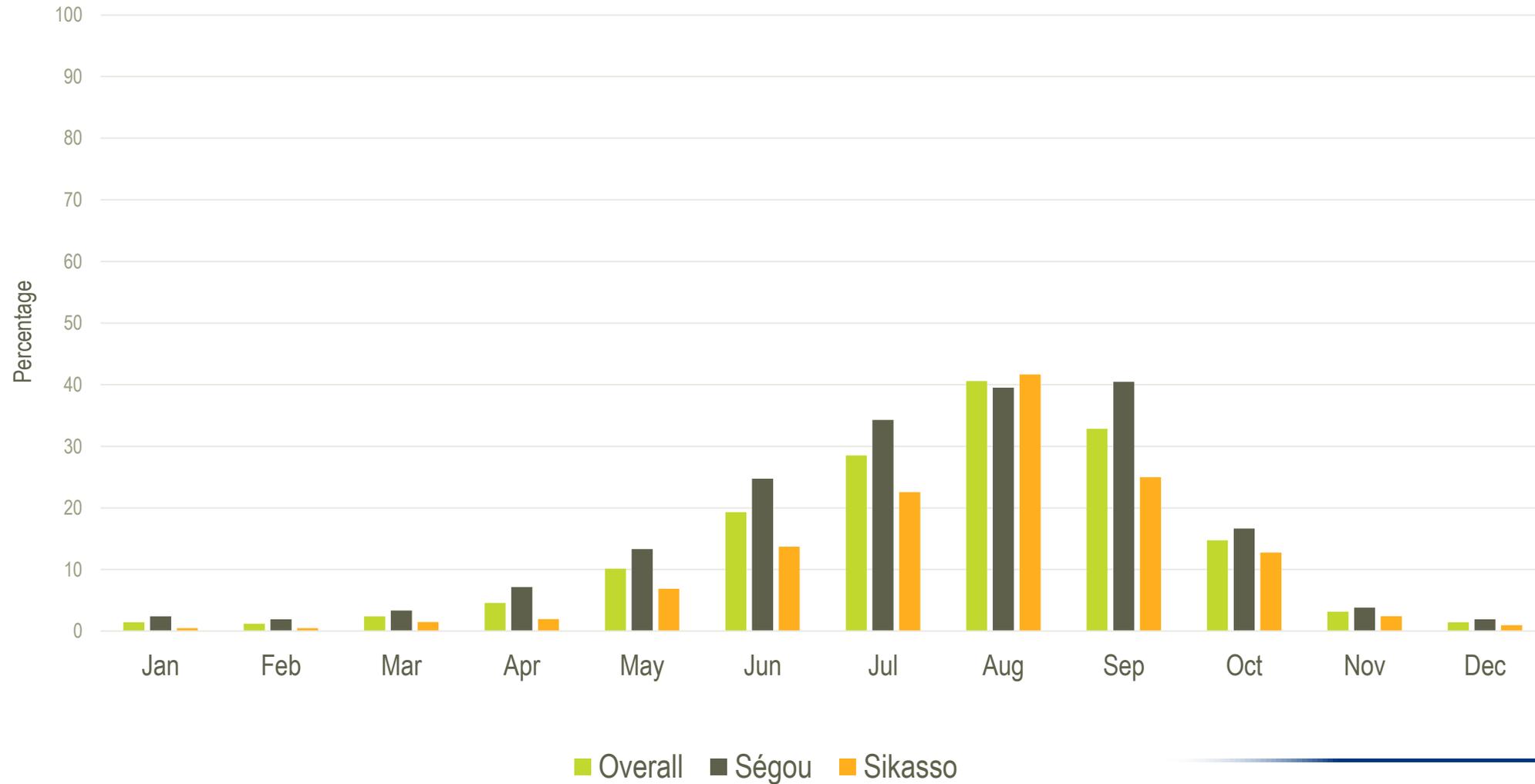
- 297 Households;
- Mandla and Dindori districts;
- 3 village blocks

Guatemala

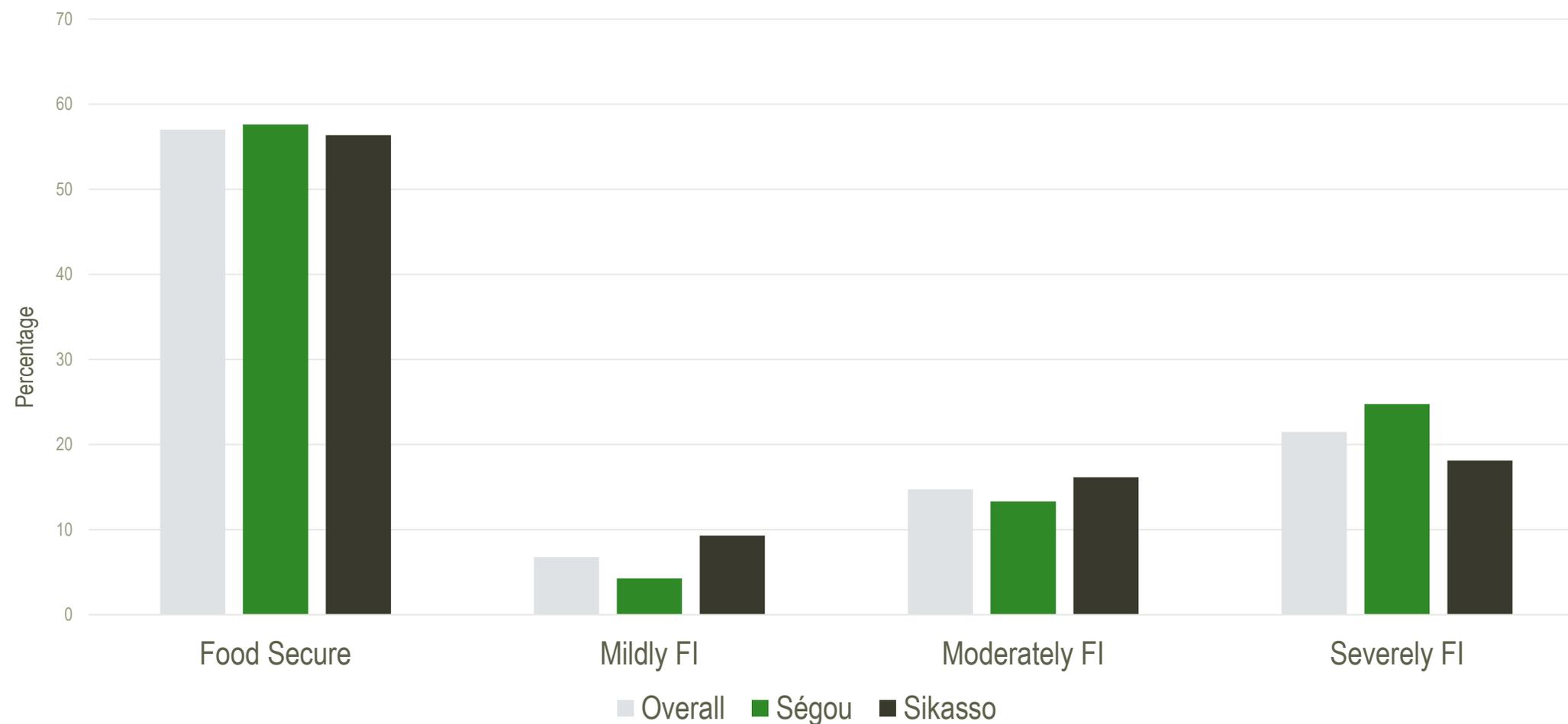
- 88 Households;
- Chiquimula Department;
- 3 Villages



Mali - Monthly food insecurity



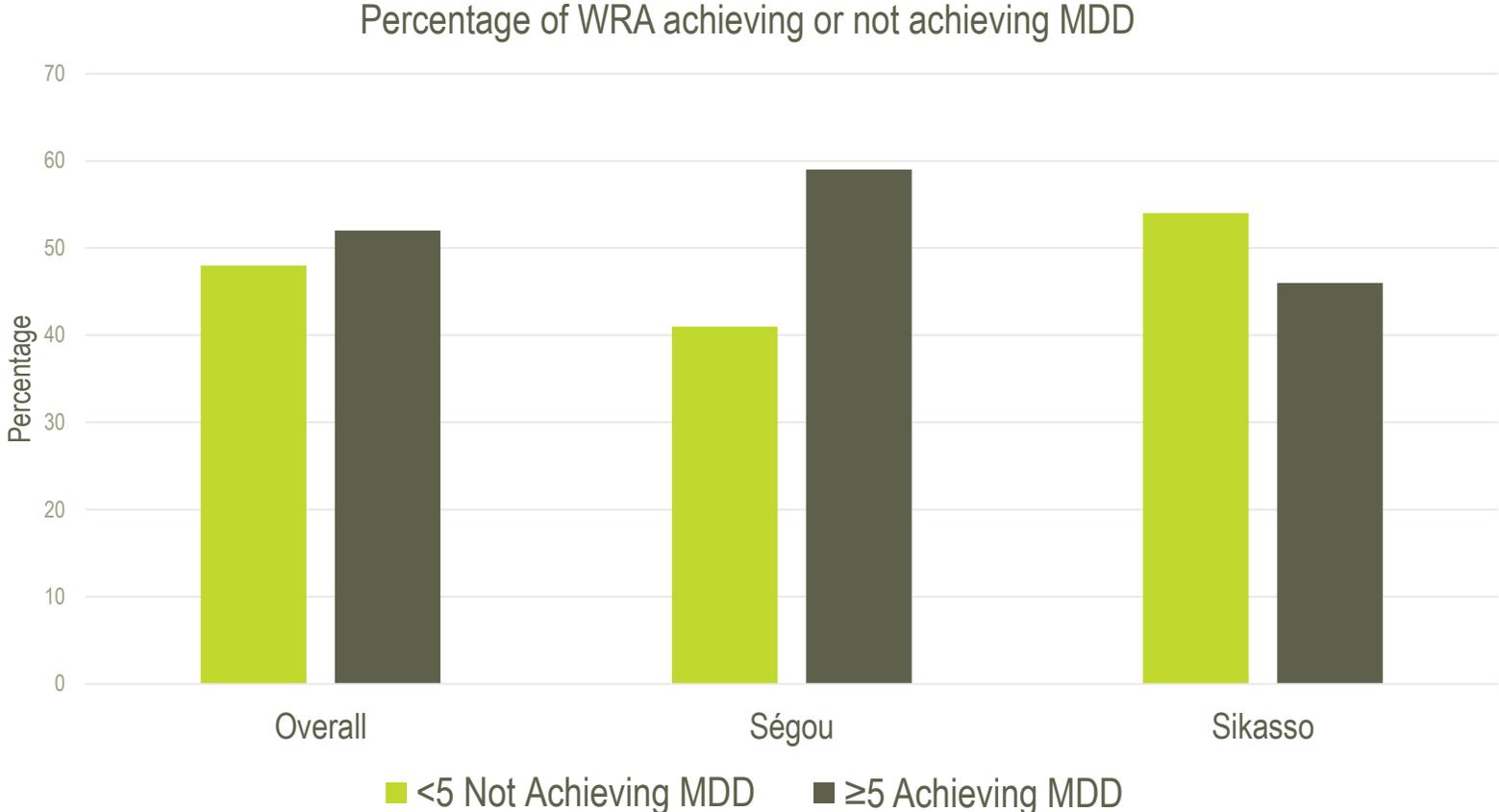
Mali - HFIAS – Household Food Insecurity Access Scale - Prevalence



Mali - MDD-W

Average Dietary Diversity Score:

- Overall: 4.57
- Ségou: 4.71
- Sikasso: 4.43



Mali - MDD-W

<u>Percentages of food group consumption of WRA</u>			
<u>Food groups</u>	<u>Total</u>	<u>Ségou</u>	<u>Sikasso</u>
Grains, roots and tubers	99	99	100
Dark green leafy vegetables	70	65	74
Vit. A fruits and vegetables	31	38	24
Other vegetables	68	61	76
Other fruits	3	2	5
Meat, poultry and fish	86	93	78
Eggs	3	2	4
Nuts and seeds	44	59	28
Pulses	35	39	31
Dairy	18	13	23

Mali - Focus Crops

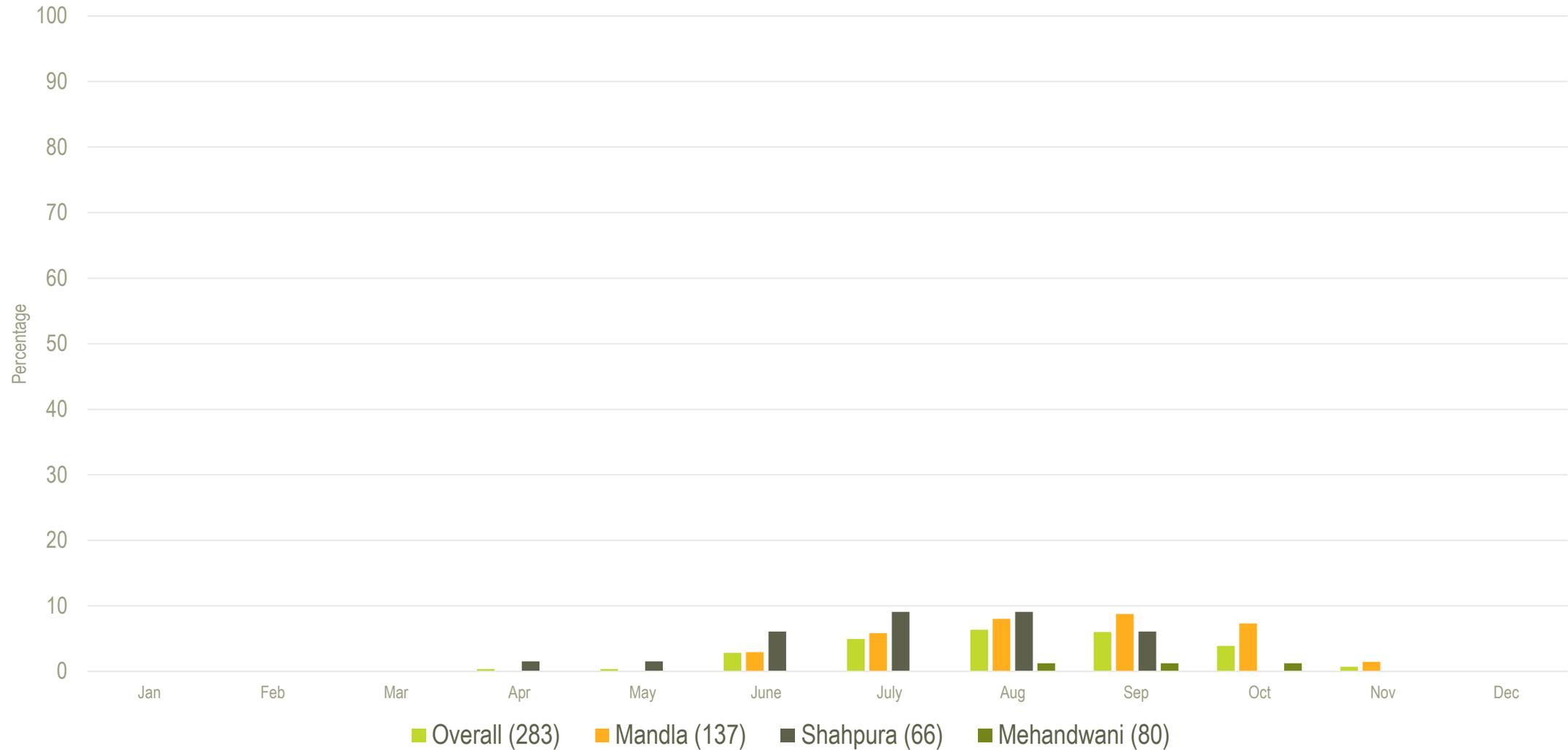
Bambara groundnut (*Vigna subterranea*)

- Consumed by 54% of households, equally divided in the two regions considered.
- Eaten all year round, with a peak in consumption in October, when it's eaten by households (87.7%) in Ségou, and by households (36.9%) in Sikasso.
- Consumed once or twice per week in Tô.

Fonio (*Digitaria exilis*, *Digitaria sp.*)

- Consumed by 47% of households, mostly in Ségou.
- Eaten all year round. Peak in consumption from August to December → higher food insecurity.
- Consumed once or twice per month in Sikasso and once or twice per week in Ségou. Tô, kini or fôyô dishes.

India - Monthly food insecurity



India - CSI – Coping Strategy Index

Average CSI Score

Overall: 2.5

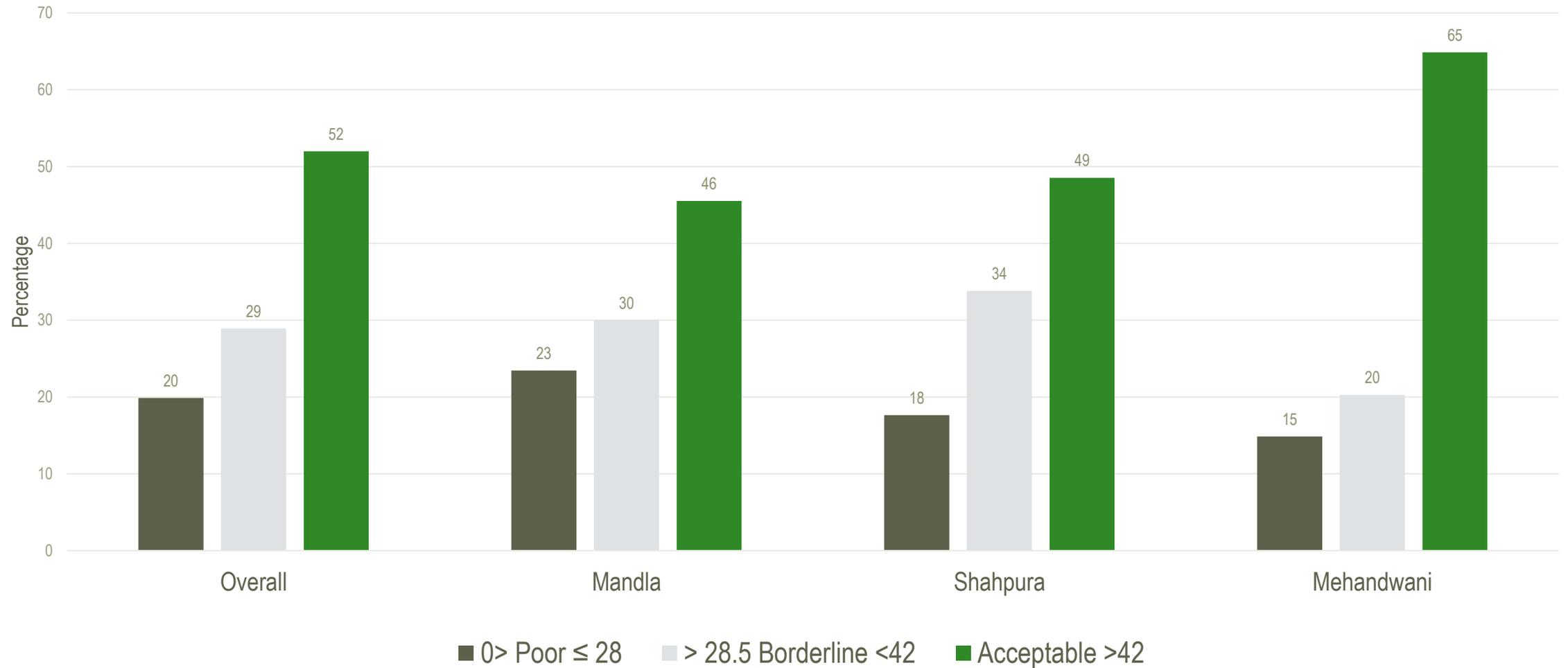
Mandla: 3.5

Shahpura: 2.0

Mehandwani: 1.2

CS most commonly adopted						
	Severity weight	1	2	1	3	1
% Adopting CS	%	Eating less-preferred foods	Borrowing food or money	Limiting portions	Restrict adult intake	Reducing # of meals per day
75	Overall	74	6	5	4	23
86	Mandla	86	9	10	7	18
64	Shahpura	61	7	3	3	33
65	Mehandwani	61	0	0	0	21

India - FCS Food Consumption Score



India - FCS

Average frequency of consumption of food groups

Average Frequency of Consumption				
	Overall	Mandla	Shahpura	Mehandwani
Main Staples	6.80	6.80	6.63	6.91
Pulses and Nuts	3.82	3.21	3.72	5.12
Vegetables	4.27	3.72	3.85	5.69
Fruits	0.64	0.60	0.81	0.58
Meat and Fish	0.75	0.94	0.68	0.49
Dairy	1.33	1.30	1.76	1.01
Oils and Fats	4.16	3.80	4.07	4.91
Sugar, Sweets	3.74	3.39	4.09	4.08
Spices	1.78	1.68	1.81	1.93

India - Focus Crops

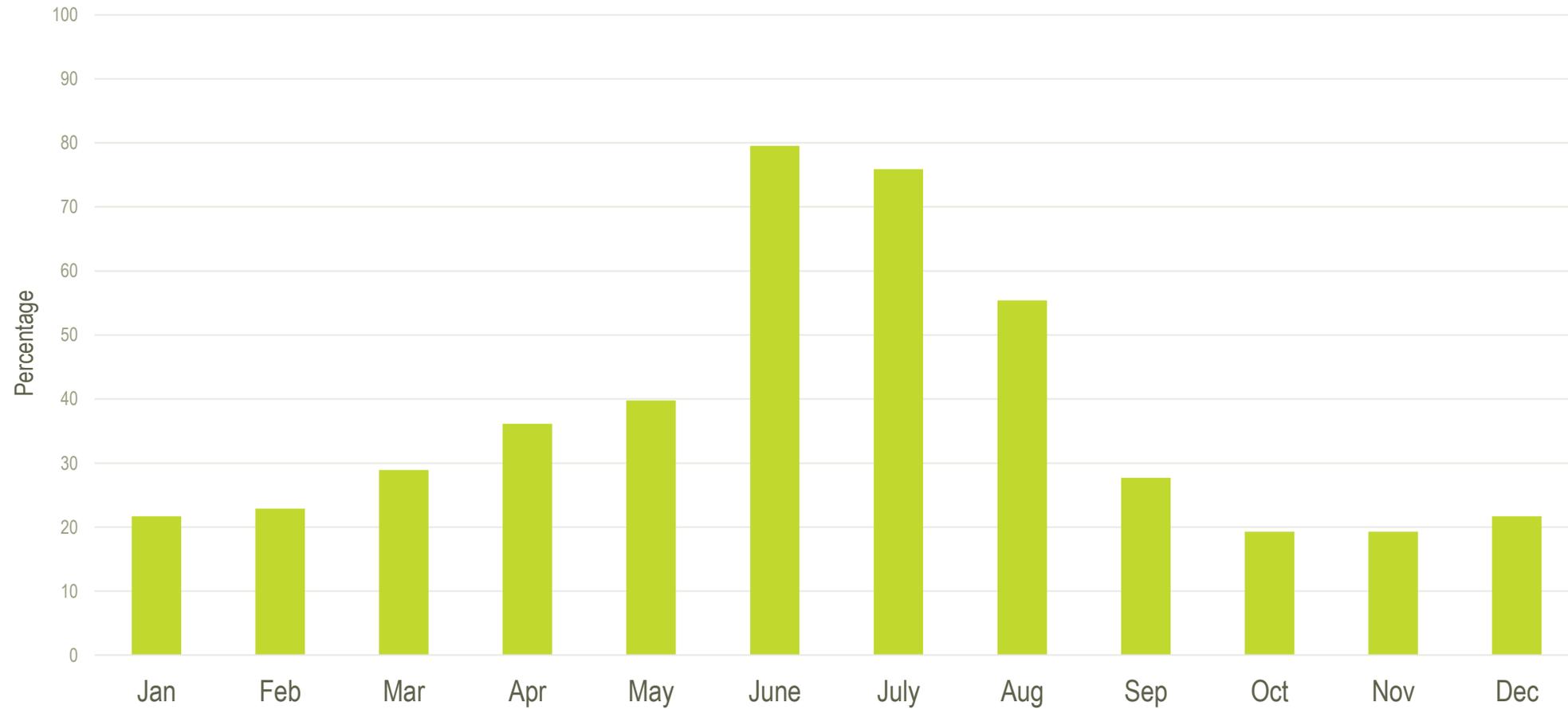
Kodo millet (*Paspalum scrobiculatum*)

- Consumed by 50% of HHs. Least consumed in Mandla.
- From July to January, and peak consumption in August (in Mandla) and in November (in Mehandwani).
- Usually consumed twice per week, but only in one month.
- *Laddu and kheer.*

Kutki millet (*Panicum sumatrense*)

- Consumed by >48% of HHs. Least consumed in Mandla.
- Not consumed between April and June. Peak consumption between August and November, in Shahpura and Mehandwani.
- Usually consumed two or three times per week, but only in one month.
- *Laddu and kheer.*

Guatemala - Monthly Food Insecurity



Guatemala - HDDS

- Household level
- 12 food groups

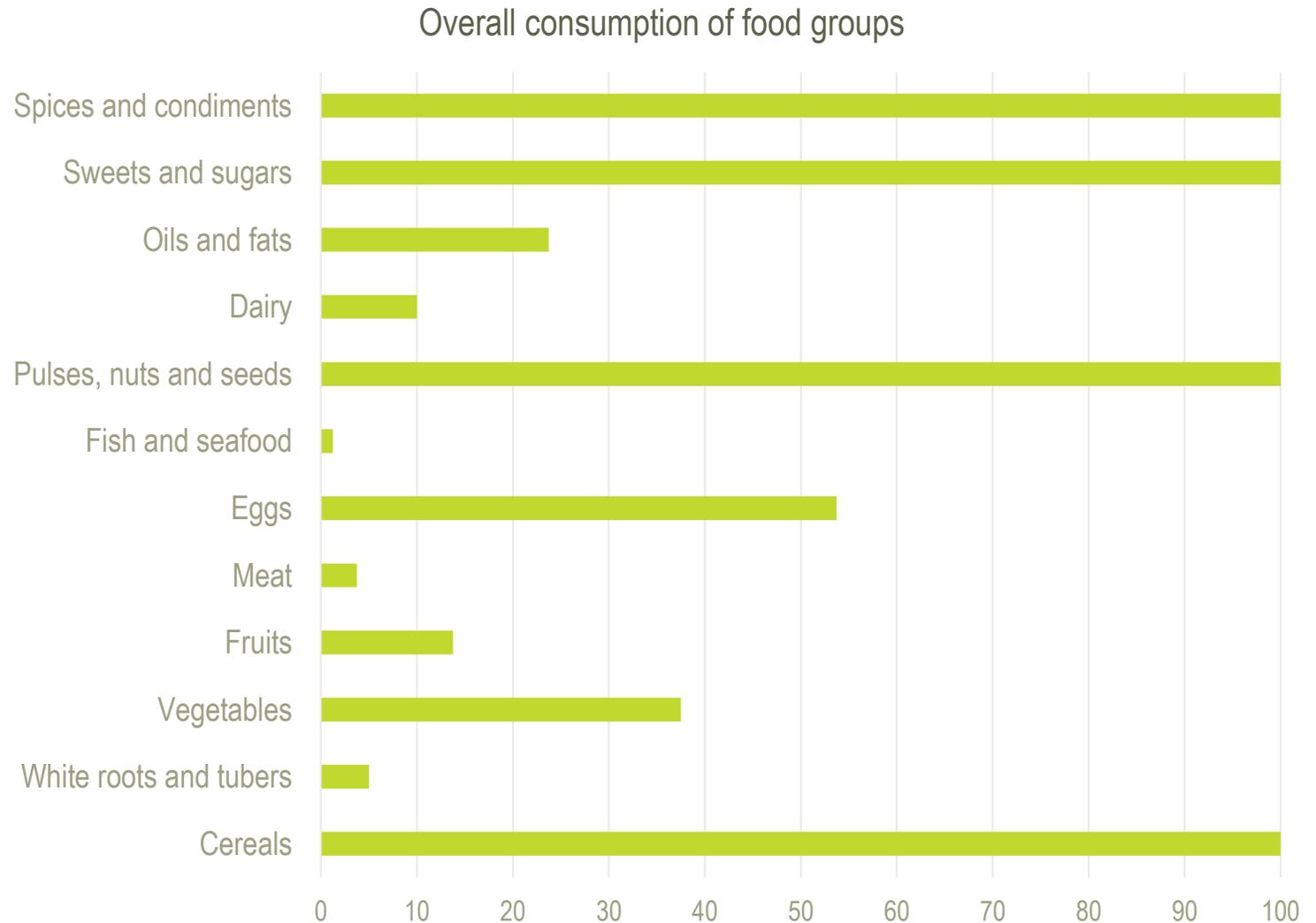
Average scores

Overall: 5.48

Tesoro Abajo: 5.71

Petentá: 5.39

La Brea: 5.33



Guatemala

Lean period - frequency of consumption (%)				
Food groups	Never consumed	1-2 times per month	1-2 times per week	>10 times per month
<u>Pulses and Nuts</u>	6	14	28	52
<u>Cereals</u>	0	6	18	76
<u>Tubers</u>	46	35	16	3
<u>Vegetables</u>	5	40	41	14
<u>Fruits</u>	22	51	22	4
<u>Meat</u>	28	53	19	0
<u>Fish</u>	78	21	1	0
<u>Eggs</u>	6	23	57	14
<u>Dairy</u>	48	36	14	3
<u>Oils and fats</u>	9	28	28	35
<u>Sugar Sweets</u>	1	10	11	78
<u>Beverages</u>	15	21	79	55

Lessons Learned

Differences in data collection and indicators used:
difficult to make comparisons between countries.

Different recall periods (24 hrs, one week, one month)

Different food group definitions





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