



No One Shall Be Left Behind Initiative

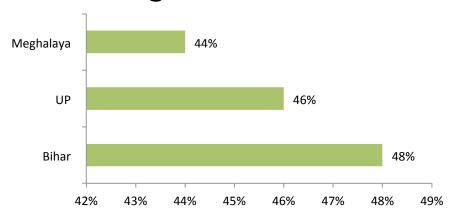
"Promotion of local and indigenous foods with a focus on dietary diversity"





CURRENT SCENARIO OF MEGHALAYA

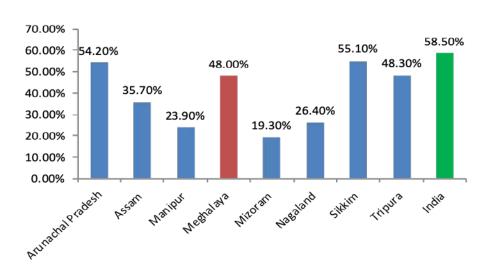
Stunting among children: 3rd highest in India



Children under 5 years:

Underweight- 28.9% Wasting- 15.3%

Anaemia among children 6 to 59 months



Anaemic Women (15-49 years) 56.2%

Health for all needs a holistic approach around food



AGROBIODIVERSITY: INTRASPECIFIC DIVERSITY

Hidden diversity within species levelintraspecific diversity of the local varieties.

- Different varieties of the same crop, contain different level of nutrients
- Sometimes the difference can be significant

Example:

Rice varieties vary in protein (5,6 to 14,6 g) per 100 grams

So 200 gram consumption per day can result either in 25% or 65% or RDA



INTRASPECIFIC DIVERSITY: OVERLOOKED ASPECT

Banana or a banana?

Banana varieties showed great differences in carotenoid content ranging

- FROM 58 mg b-carotene/100 g in the whitefleshed banana (Cavendish subgroup)
- TO 5945 mg b-carotene/100 g in the yellow/orange fleshed banana.







Bananas are an ideal food for all people including children because of their sweetness, texture, portion size, familiarity, availability, convenience, versatility, and cost.

Englberger, L., Darnton-Hill, I., Coyne, T., Fitzgerald, M. H., & Marks, G. C. (2003). Carotenoid-rich bananas: a potential food source for alleviating vitamin A deficiency. *Food and nutrition bulletin*, 24(4), 303-318.

Rice + carrots Rice + carrots + orange 160 160 120 120 % RND % RND 80 40 40 Vitamin A Vitamin C Vitamin A Vitamin C Folate Zinc Folate Zinc Iron Iron Rice + carrots + orange + lentils Rice + carrots + orange + meat 160 160 120 120 % RND % RND 80 80 40 40 Vitamin A Vitamin C Folate Zinc Vitamin A Vitamin C Folate Zinc Iron Iron Rice + carrots + orange + meat + spinach Rice + carrots + orange + meat + spinach + lentils 160 160 120 120 % RND % RND 80 80 40 40 Vitamin A Vitamin C Folate Zinc Vitamin A Vitamin C Folate Zinc Iron Iron

FIGURE 2.2 - Recommended nutrient density of a white rice diet improves with each addition of another type of food

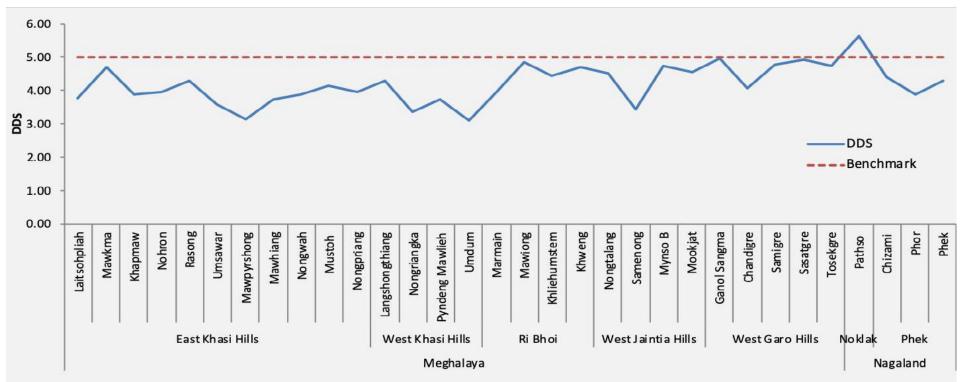
Sustainable Food Systems. Scientific Foundations for an Agrobiodiversity Bioversity International (2017) Mainstreaming Agrobiodiversity in

Index.

Source: (15). RND - Recommended nutrient density

Nutritional gap: Communities don't consume required amount of food groups

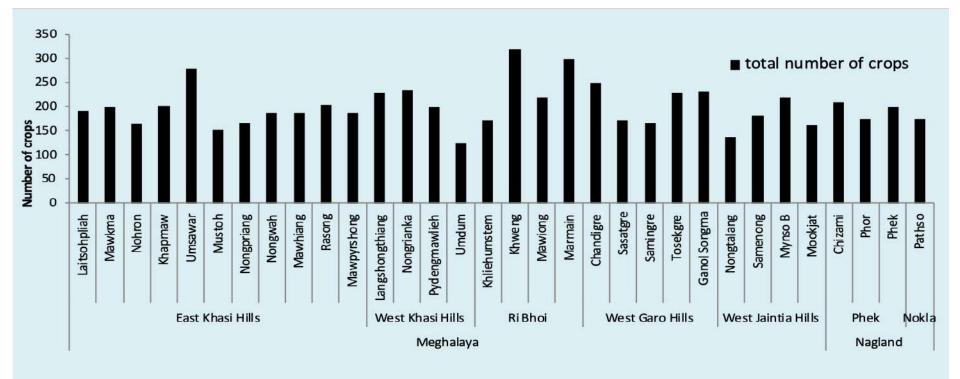
- •According to the FAO Guideline on Diet Diversity Score (DDS), an adequate diet is a diet that contains at least 5 Food Groups in a day
- •NESFAS Study of 32 communities showed that on an average, households were consuming only 3-4 food groups in a day



Communities Have Local Solutions with Agrobiodiversity

The villages have a high diversity of crops and wild edibles in their own villages, enough to easily bridge the missing food groups in the diets

Average number of plant foods from the 32 villages is 202



Availability of missing food groups within the community

Numbers in the table represent the types of plant food available

State	District	Starchy staples	Leafy vegetables	Other vegetables	Other fruits	Vitamin A rich	pulses	Nuts and seeds	Mushrooms	total
Meghalaya	East Khasi Hills	23	30	46	56	11	4	5	18	193
	West Khasi Hills	42	24	33	64	8	7	3	16	197
	Ri Bhoi	51	38	69	51	9	6	7	21	252
	West Jaintia Hills	21	34	33	47	9	7	4	21	175
	West Garo Hills	55	29	45	62	7	3	2	7	210
Nagaland	Phek	21	39	38	50	8	7	8	23	194
	Noklak	12	35	31	67	8	4	10	7	174

SOURCES OF FOODS IN THE COMMUNITY

- Forest (foraging)
- Shifting cultivation
- Kitchen garden or home garden.
- Orchards (fruit cultivation)
- · Paddy field.
- Bun (terrace farming)
- Water bodies (streams, ponds)
- Market
- Seed exchange to secure food and add crop diversity.



INTEGRATED ACTIVITIES WITH ICDS AND SCHOOLS

- Cooking demonstration.
- School garden to supplement midday meal.
- Food festivals on mid-day meal.
- Mei-Ramew café /local café (Mother earth café)- To increase consumption of local food.



INTEGRATED ACTIVITIES WITH ICDS AND SCHOOLS

- Seasonal calendars to help cooks prepare menu.
- ABD Walk (Agro biodiversity Walk)
- WASH Campaign



KA KALENDAR THUNG JHUR

E A KIWEI KI JAIT JHUR

PROMOTION AND AWARENESS OF UNDERUTILIZED SPECIES

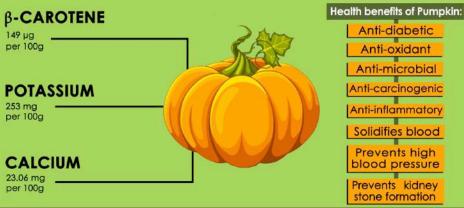


CHASONGSAONI CHA • BAENGIPA



GOMINDA

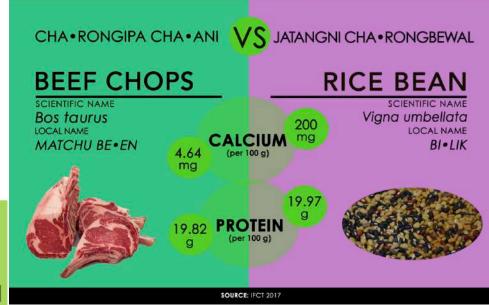
SCIENTIFIC NAME CUCURDITA MAXIMA
ENGLISH NAME PUMPKIN





CHASONGSAONI CHA·BAENGIPA



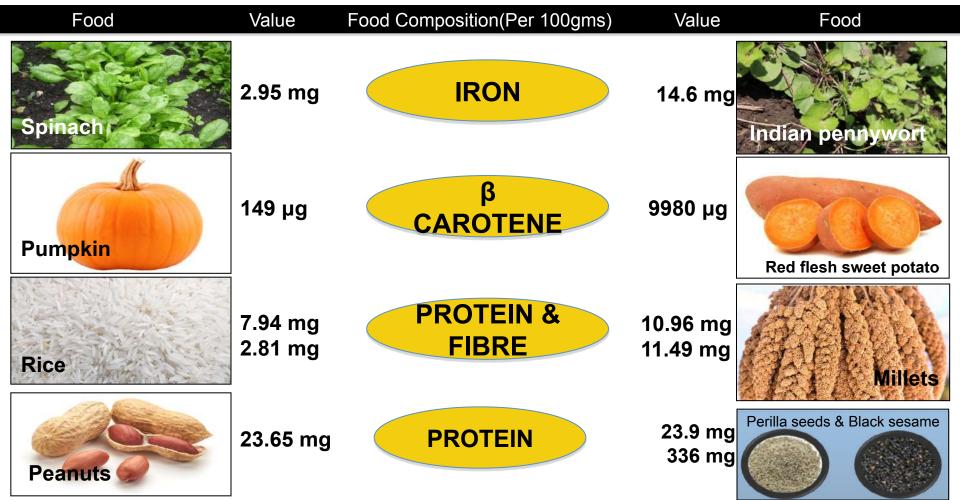


 By providing evidence of nutritional value of agricultural biodiversity.

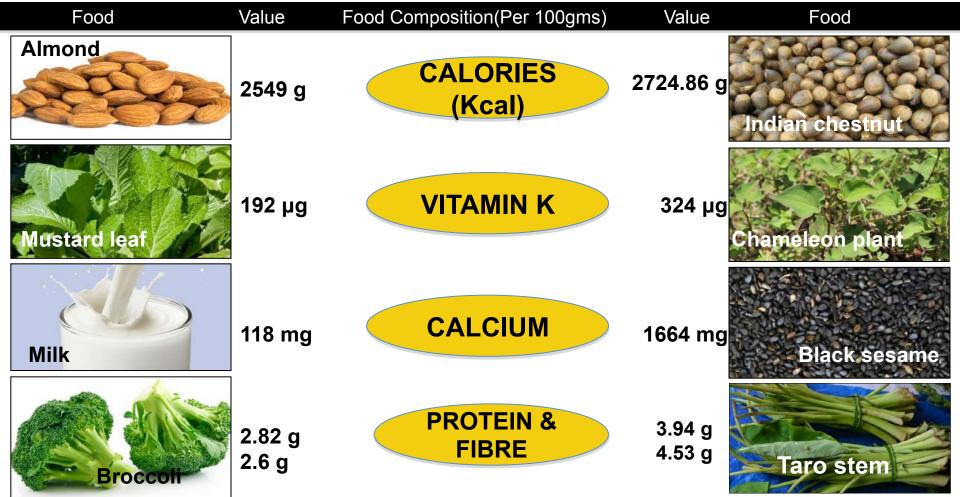
Health benefits of nutrients.

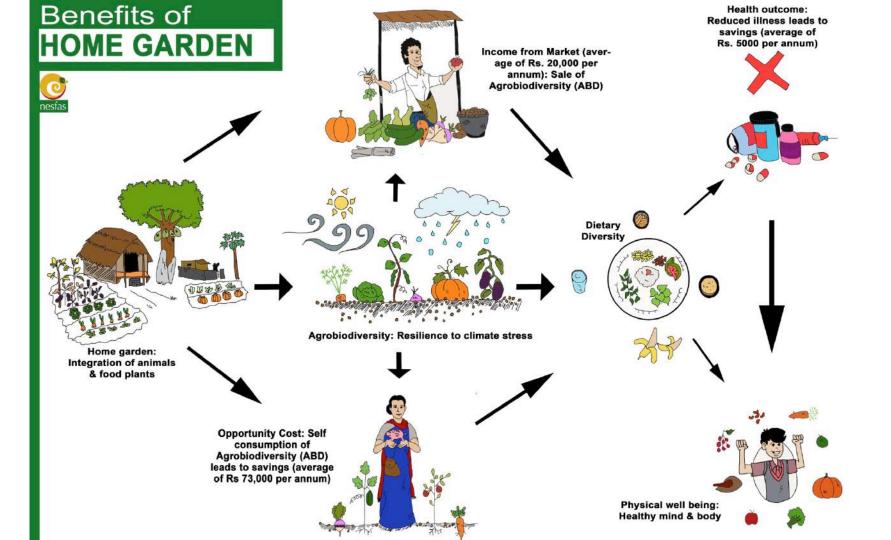
SOURCE: FCT. 2017 | 1 Yaday M. et. al. 2010. Medicinal and biological potential of numbin: an updated review. Nutrition Research Reviews (2010), 23, 184-190

COMMON FOODS VS NEGLECTED & UNDERUTILISED FOODS



COMMON FOODS VS NEGLECTED & UNDERUTILISED FOODS





NESFAS EMERGING SCHOOL GARDENS



NESFAS EMERGING KITCHEN GARDENS





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