

Young women as agents of change towards sustainable organic farming

SHAKTI : THE POWER TO CREATE

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THE ROLE OF WOMEN'S KNOWLEDGE IN MEETING GLOBAL POLICIES & GOALS

GOAL 1: No Poverty: End poverty in all its forms everywhere

GOAL 2: Zero Hunger: Achieve food security and improved nutrition and promote sustainable agriculture

GOAL 3: Good Health and Well-being

Goal 5: Gender Equality

Goal 13: Climate Action

Goal 15: Life on Land





SEED
SOVEREIGNTY IN
WOMEN'S HANDS







**NAVDANYA
COMMUNITY SEED
BANK,
BAY OF BENGAL
CONSERVING 1118
VARIETIES OF PADDY**

Climate Resilient Drought Tolerant Rice Varieties of ODISHA



Ashubhajana



Ashudhan



Ashukakharua



Atia



Bhuskunda



Culture



Dahiashu



Dahibakuri



Dangarmaina



Dasarageti



Ekchori



Eksuan



Haledigundi



Hiranya



Hiranyamayee



Kalabakuri



Kalabramhanabai



Kallianshu



Mahalabeli



Nalibakuri



Nalinadia



Nenka



Pasani



Raigadi



Sarbati



Sebati



Tamdisal



Tamkudai



NAVDANYA SEED BANK,
BIJA VIDYAPEETH
DEHRADUN

WOMEN'S FOOD SOVEREIGNTY

Knowledge sovereignty of agroecology & organic farming lies in women's hands ;

Women farmers are the drivers of organic production in ways that increases nutrition and reduces the inputs that are causing climate change;

Gardens of Hope gives them access to healthy food and nutrition;

Economic sovereignty creating circular economies to empower women economically through increasing women's handprint while reducing the carbon footprint



Regenerative Organic farming

Table 2: Showing effect of continuous farming on Soil under Organic and Chemical mode

Nutrient	Change under Chemical Farming	Change under Organic Farming
Organic Matter	-14%	+29-99%
Total Nitrogen (N ₂)	-7-22%	+21-100%
Available Phosphorous (P)	0%	+63%
Available Potassium (K)	-22%	+14-84%
Zinc (Z)	-15.9-37.8%	+1.3-14.3%
Copper (Cu)	-4.2-21.3%	+9.4%
Manganese (Mn)	-4.2-17.6%	+14.5%
Iron (Fe)	-4.3-12%	+1%

Volume of Water Retained /ha (to 30 cm) in relation to soil organic matter (SOM)	
• 0.5% SOM	80,000 litres (common level Africa, Asia)
• 1% SOM	160,000 litres (common level Africa, Asia)
• 2% SOM	320,000 litres
• 3% SOM	480,000 litres
• 4% SOM	640,000 litres (levels pre farming)
• 5% SOM	800,000 litres (levels pre farming)
• 6% SOM	960,000 litres (levels pre farming)

(Adapted from Morris, 2004).

**Baranaja
(12 crops
mixed farming)
Biodiversity
Based
Productivity
Organic
Farming on
The Navdanya
Biodiversity
Conservation
Farm, Doon
Valley**

Table N-A-1: Comparison of macronutrients produced per acre farmland-Organic mixed cropping (Baranaja) versus conventional mono cropping

	Protein (kg)	Carbohydrate (kg)	Fat (kg)	Total energy (kcal)
Organic Mixed Cropping- Baranaja				
Bajra = 1.78 qt	20.7	120.2	8.9	642580
Maize = 5.18 qt	57.5	342.9	18.7	1771560
Sefed Chemi = 2.43 qt	55.7	147.3	3.2	840780
Ogal = 1.46 qt	15.0	95.1	3.5	471580
Mandua = 2.43 qt	17.7	175.0	3.2	797040
Jhangora = 1.78 qt	11.0	116.6	3.9	546460
Urd = 2.43 qt	58.3	144.8	3.4	843210
Navrangi = 2.75 qt	66.0	155.9	3.6	918500
Koni No. 1 = 1.13 qt	13.9	68.8	4.9	374030
Lobia = 2.43 qt	58.6	132.4	2.4	784890
Till = 1.62 qt	29.7	40.5	70.2	912060
Koni No. 2 = 1.38 qt	17.0	84.0	5.9	456780
Total = 26.8 qt	421.1	1622.9	131.8	9359470
Mono Cropping				
Maize = 21.86 qt	242.7	1447.1	78.7	7476120
Total = 21.86 qt	242.7	1447.1	78.7	7476120

Source: 1) Navdanya; 2) Nutritive value of Indian Foods, ICMR.

WEALTH PER ACRE

What Should We Plant In The Whole Country- 5 Monocultures Or Its Ecological Alternatives

monocultures		Ecological alternatives	
Crop	Net Income (INR)	Crop	Net Income (INR)
Hybrid Rice	71862	Dehraduni Basmati	113032
Hybrid Corn	30659	Finger Millet	128150
Hybrid Soybean	2863	Rajma	267399
Green Peas	94715	Amaranth	367000
Bt Cotton	8403	Desi Kappas	23737
Average Net Income	41700	Average Net Income	179864

Wealth Per Acre, Vandana Shiva, Vaibhav Singh, Natraj pg 218

THROUGH ECOLOGICAL FARMING WE CAN FEED TWO TIMES OF INDIA'S POPULATION , Wealth Per Acre Study





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OUR BREAD OUR FREEDOM
Hamari Roti Hamari Aazadi

מזון pagkain chakula mad alimenti Lebensmittel
 อาหาร élelmiszer food 餐飲 храна طعام cibo τροφή
 ka mea'ai ushqim eten jedzenie aliments



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