

Sustainable Agriculture Tanzania (SAT)

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Training schedule

- ♣ Introduction to organic/sustainable farming
- ♣ Know your soil
 - Simple soil test (Finger and bottle methods)
- ♣ Soil fertility
 - Soil and water conservation
 - Soil erosion
 - A-Frame (contouring)
 - Land degradation
- ♣ Preparing a garden
 - Nursery layout and care
 - Field layout
 - Appropriate spacing
 - Transplanting
- ♣ Improving soil fertility
 - Composting (Modified compost, pit hole compost, 15 days aerobic compost)
 - Top dressing (plant teas, liquid manure)
 - Foliar application (plant booster)
 - Zai pits
 - Double digging for increased soil depth and moisture preservation
 - Mulching
 - Cover crops and green manure (Sun hemp, lab lab, Mucuna)
 - Inoculating legume seeds using soil
- ♣ Common problems in the field
 - Pests
 - Diseases (Viral, fungal and bacterial)
 - Weeds

- ♣ Pests, disease and weed management
 - Botanical plant protectors
 - Plant extracts for spraying (Neem, hot pepper, tithonia, lantana camara, tephrosia)
- ♣ Farmer's friends
 - Insects that are natural enemies to other pests
 - Plants used against pests and diseases
- ♣ Innovations for food security and self sufficiency
 - Kitchen gardening (Mandala)
 - 9 seeds per hole
 - Raised beds
 - Double dug beds
 - Drought resistant vegetables
 - Tip Tap
 - Energy saving stove
- ♣ Urban farming
 - Sack mound
 - Anthill garden
 - Using old tires
 - Wooden baskets
- ♣ Agroforestry
 - Importance of agroforestry
 - Biological Nitrogen Fixing trees (BNF)
 - Trees that can be used as feedlot, woodlot, firewood
- ♣ Technical methods
 - Pest and disease management
 - Crop rotation to relief nutrients and mineral drain
 - Mixed cropping to discourage pests build up and improve soil cover
 - Seed production, harvesting and storage
 - Marketing of organic produce
 - Organic farm planning and design
 - Book keeping (importance of keeping records)
 - Farm management
 - Introduction to entrepreneurship
- ♣ EM Technology
 - EM 2
 - EM FPE
 - EM 5
 - EM Bokashi

- ♣ Principles of crop production
 - Vegetable production
 - Annual and perennial crops
- ♣ Principles of animal production
 - Animal health
 - Livestock feeding (Ruminants & non-ruminants)
 - Poultry production (indigenous and improved)
 - Dairy production (cows and goats)
 - Piggery production
- ♣ Farming as a business
 - Farm management
 - Agricultural marketing
- ♣ Gender issues in sustainable agriculture
 - Gender and Development
 - Women in Development
- ♣ Fruit trees
 - Nurseries
 - Grafting
 - Budding
- ♣ Smallholder drip irrigation
 - Bucket system
 - Drum system
 - Bottle system

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