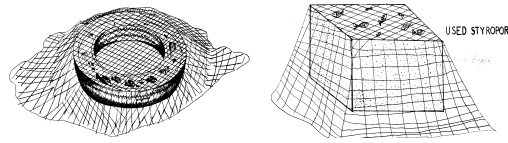


- Hanging Home Decor Gardening (Herbs, shade loving vegetables grown in decorative baskets hanged in Racks)
- Rock Gardening (Shallow soil areas underlain by hard adobe rocks as in the



Catfish and Tilapia in Used Tire and Styropor

Rr Plant Production	Rr Fish Farming	Rr Irrigation(Drip)
Basket	Bggal	Dextrose Container
Pails	Bggaling oil or biscuit can container	Bamboo
Basichags	Old disposable pressure tank	
Clay pots	Body of unusable Refrigerator	
Used tires	Drum (water container)	
Tin cans		
'Gascode'		
'Bitya'		
Styrofoam		
Used handbags		

case of Guadalupe, Makati, and adjoining areas)

- Water Logged Plant Food and Fish Farming as in the case of Tondo, Caloocan, Pasay and other similar places)

Department of Agriculture  
**Bureau of Soils and Water Management**  
 Elliptical Road, Corner Visayas Avenue, Diliman,  
 Quezon City  
 920-43-82 or 923-04-33

Training and Information Dissemination Services (TIDS)



# URBAN AGRICULTURE

Poverty Alleviation,  
 Waste Reduction  
 and Health  
 Improvement  
 Program

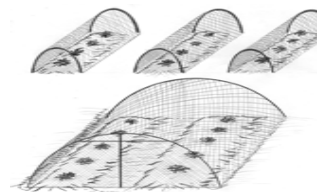
For Urban Poor in  
 Metro Manila and  
 other Cities



- Food Plants growing in waterlogged areas (kangkong, Gabi, Tugue)

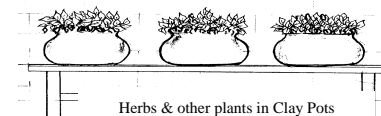
Vegetables	Herbs/Spices	Trees
Tomato	Kinchay	Kalamansi
Lettuce	Spinach	Malungay
Pechay	Kutchai	Avocado
Mustard	Mint, Basil	Achuete
Green Onions	Collander	Ipil-ipil
Ginger	Sambong	Madre de cacao
Spinach	Kinchay	
Upo, ampalaya, squash, patola	Red Pepper, Bell Pepper	
Alugbati	Lagundi	
Saluyot	Pandan, Tanglad	
Gabi, Ubi		
Kangkong, Tugue		
Raddish		
String beans, mungo, Okra, winged beans		

- Legume Tree crops (Malungay)
- Fruit and Medicinal Trees as shade trees in open spaces



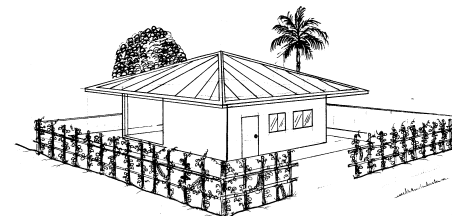
- Plants with insecticidal values

Some Examples of Useful Urban

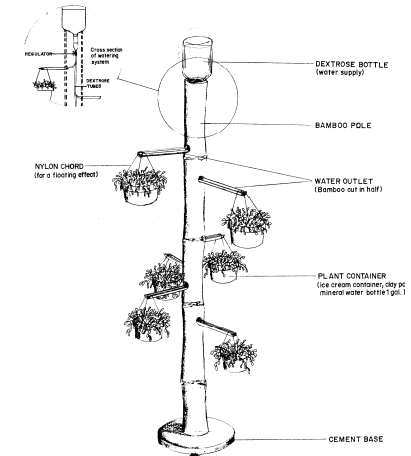


Herbs & other plants in Clay Pots

Wastes and Materials for Urban Farming Some Models of Urban Farming and Fish Production

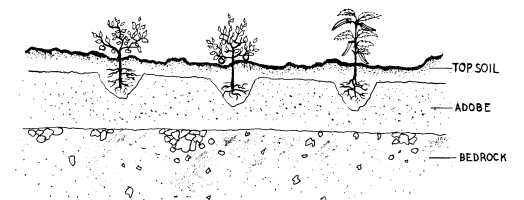


- Traditional Urban Bio-Garden Plots, possibly with provisions for Butterfly Culture and Management



Bamboo Rack with "Dextrose" drip fertigation

- Basket Farming (Herb, Spices, and Vegetables planted in biodegradable and Recyclable Containers/Receptacles)
- Fence Gardening (Vines and Climbing plants)



plants)



## BASIC OPERATIONAL FRAMEWORK

- Recognition of the urgent need to integrate urban poor requirements in the over-all agriculture and basic needs program of DA
- Gainful livelihood activities for out-of-school youths, retirees, senior citizens, and urban poor women
- Foster close partnership and integration of resources of DA, LGU, and Metro Manila Chamber of Commerce and Industry and other Civic Organizations in addressing food and health needs of urban poor
- Urban poverty alleviation, livelihood and health improvement program
- Urban home garbage and food waste reduction, recycling, and utilization
- Urban home grown and home processed medicinal food, vegetables,

## Areas of Implementation (Coverage)

Metro Manila and possibly will expand to cover: Metro Davao, Metro Cebu and other Metropolitan Cities

## GOAL

To improve the quality of life and living environment of the urban poor communities

## OBJECTIVES

- To provide alternative work areas for relaxation and sustain the productivity of senior citizen, retirees, and out-of-school youths.
- To provide alternative sources of livelihood and medicinal food for the urban poor.
- To reduce urban wastes and transform them into productive uses such as compost, energy sources, and support for the production of nutritious food with medicinal values.
- To train urban poor, out-of-school youths, retirees and other concerned sectors on the basic urban farming techniques.

## IMPLEMENTATION ARRANGEMENTS

- Department of Agriculture
  - Provide technologies and extension works
  - Package and conduct training
  - Provide initial basic planting materials and farm tools
- Metro-Manila Chambers of Commerce and Industry and other Civic Organizations, including NGOs
  - Assist in organizing urban poor communities
  - Assist in marketing and processing of products
- LGU
  - Integrate Urban Agriculture Program into their respective food and environment development program
  - Organize urban poor into municipal network of food and herbal medicine producers
- Urban Poor Communities
  - Organize themselves into network of

cooperatives Urban Home Garden Producers  
- Participate actively in garbage and food waste reduction and utilization efforts of local governments

## Target Groups

- Urban Poor
- Out-of-School Youth
- Retirees
- Senior Citizens
- Women
- School children

## Potential Sites

- Schools
- Vacant lots and backyards (subdivision and government lots)
- Individual Homes (As décor home gardens)
- Other available lands

## Materials Needed (some examples)

- For Fertigation (irrigation and fertilizer application)
  - Used dextrose bottle and accessories
  - Bamboo
- For Holding of Soil and/or Water Materials (Growing for plants and fishes)
  - Used clay pots
  - Used plastic bottles
  - Used tires and tubes
  - Used pail and cooking pots
  - Used water containers/pressure tanks
  - Used gasoline drums
  - Basket (e.g basket used during christmas season)
  - Used styropor

## Approaches

- Simple and “doable” technologies
- Each site represent a theme (Theme Park for

Urban Gardens), such as:

- Herbal Gardens
- Food Security Gardens
- Retirees/Senior Citizen Home Gardens

- Community actions
- Joint government, private business group, and urban poor communities
- Link with communities that can be sources of planting materials (e.g. Vietnamese communities as source of easy to grow spices with good medicinal and food values)

*Start off with few selected commodities that have medicinal and food values with potential market within the city*

## Technologies

- Urban and human waste composting and home energy (biogas) production, including liquid fertilizers as one of the intermediate products
- Basket and Hanging Home gardens
- Receptacle Farming
- “Dextrose” drip fertigation
- Simple home food processing, packaging and marketing



## Potential Home Garden Products

- Vegetables
- Spices
- Herbs