



SHORT COURSE ON SOLID WASTES  
COLLECTION AND DISPOSAL

Damascus, 20-30 May 1968

EMRO 134

Lecture No.2

Sources of Solid Wastes

- A. Introductory remarks
- B. The value of definitions
  - 1. In order to speak same language
  - 2. Unfortunate frequent usage of the word "garbage"
- C. Consideration of "Sources" should not be static
  - 1. Changes in consumer practices may require change in collection and disposal procedures
    - a. Declining amounts of garbage from homes
    - b. Increase from markets and restaurants
    - c. Changes in packaging materials
  - 2. Volume and weights may change
  - 3. The affluent society
- D. Garbage from:
  - 1. Homes and apartments
    - a. Changing trends
    - b. Garbage disposals in kitchen
  - 2. Food stores
  - 3. Markets:- wholesale and retail
  - 4. Restaurants and hotels
  - 5. Industries:- food packing, etc.
  - 6. Other

E. Cans and bottles

1. The trend toward use of paper cartons, plastic containers, etc.
2. Home and apartments
3. Food and soft drink establishments
4. Pharmacies
5. Restaurants and hotels
6. Industries:- bottling, etc.
7. Service stations and garages

F. Paper and cartons

1. From nearly all classifications of sources
2. Large volumes from mercantile stores
  - a. This class deserves special study
3. Possible salvage values
  - a. Increasing quantities of newspapers
  - b. Reusable in Middle East?
  - c. Trend away from reuse
4. Disposal at schools and institutions?

G. Grass, brush and leaves

1. Street sweepings?
2. Parks
3. Homes
4. Schools and institutions

H. Wood and construction material

1. Contractors and construction projects
  - a. New construction
  - b. Demolition
  - c. Contractors haul to disposal site?
2. Wood working shops
3. Lumber yards

I. Street sweepings and dirt

1. Streets and parks
2. Public building areas
3. Together with ashes these comprise a large segment of the total

J. Ashes

1. Homes and apartments
2. Some stores and businesses
3. Industries?
4. Changing trends

K. Rubber

1. Homes
2. Service stations, garages and tire repair shops
3. Other

L. Oils and paints

1. Homes and apartments
2. Paint stores
3. Service stations and garages
4. Contractors
5. Others

M. Rags and plastics

1. Combined as they may come in varying quantities from any of the different sources
2. Salvage of rags?

N. Industrial solid wastes

1. Collection and disposal difficult for many
  - a. Varying shapes, sizes, conditions
  - b. Non-dangerous chemicals
  - c. Toxic and dangerous-to-handle materials
2. Should Government provide disposal facilities?
  - a. Special cases deserve special consideration

O. Special problems

1. Hospitals and institutions
2. Schools and colleges
3. Abattoirs
4. Agriculture:- animals and live stock
  - a. Dead chickens, etc.
5. Dead animals

- P. Study of sources is important since problems can vary in size and type of city or town
1. A town built around one major industry
  2. A town serving on agricultural area
  3. A composite city
  4. A nation's capital
- Q. Attempt to foresee and plan to meet new problems; discussions with producers should help.