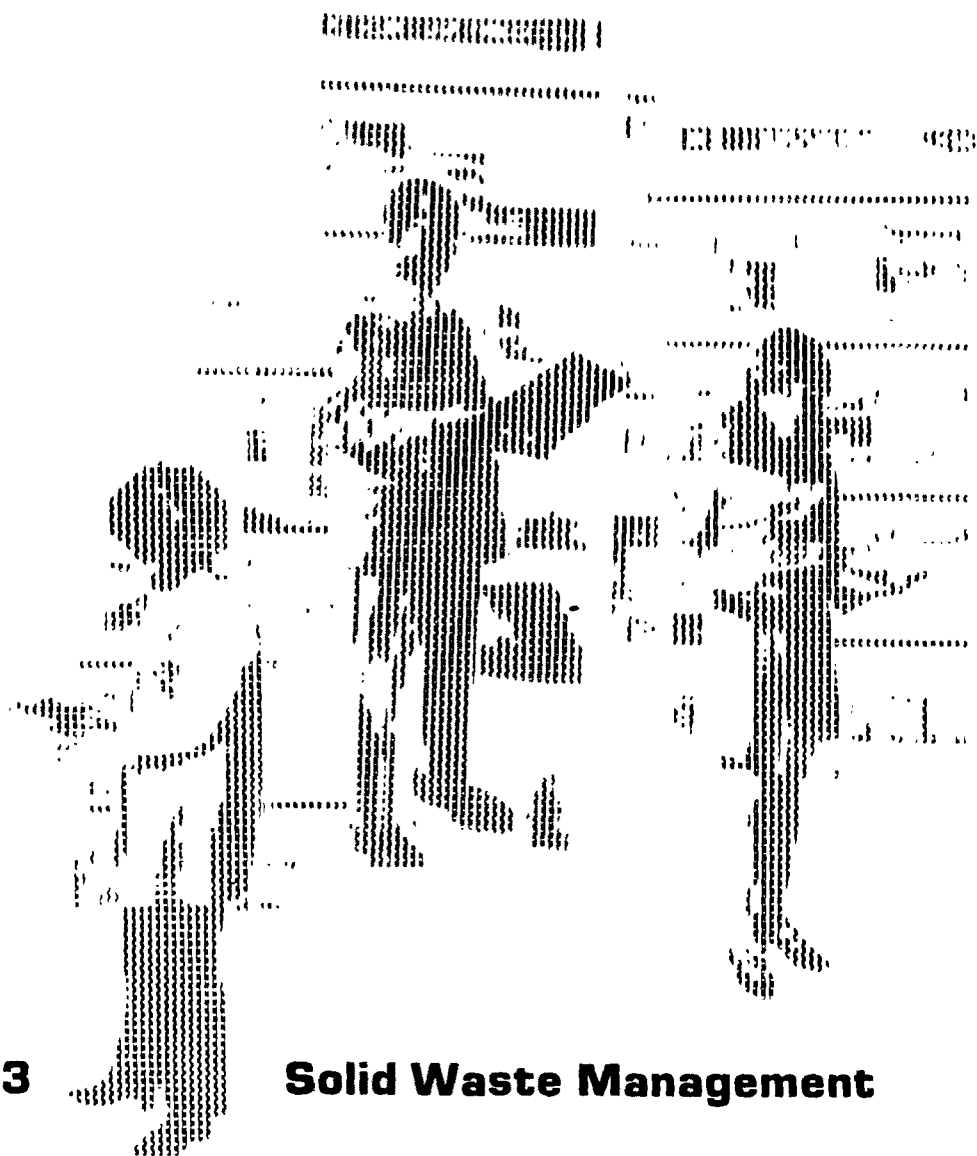


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**July 1973**

**Solid Waste Management**



# SOLID WASTE MANAGE MENT

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**U.S. ENVIRONMENTAL  
PROTECTION AGENCY**  
**july 1973**

**U.S. Environmental Protection Agency**

An environmental protection publication  
in the solid waste management series (SW-58.19)

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**T**he importance of collecting and making available the information pertaining to solid-waste-related research, demonstration projects, and other activities was emphasized by the specific authorization contained in Section 204(b) of the Solid Waste Disposal Act, Public Law 89-272. The present booklet lists publications and other educational materials that have been collected or published by the U.S. Environmental Protection Agency in response to this directive.

--SAMUEL HALE, JR.  
*Deputy Assistant Administrator  
for Solid Waste Management*



**T**he solid waste management information materials available from the U.S. Environmental Protection Agency (EPA) are from various sources. There are EPA publications and other materials reporting on results of the research, development, and demonstrations in progress, which are authorized by the Solid Waste Disposal Act of 1965, as amended by the Resource Recovery Act of 1970. This far-reaching Federal program of grants and contracts has generated solid-waste-related projects in many fields. The reports from the grantees and contractors are being published by EPA as soon as available. Presentations and policy statements by key personnel and results of technical investigations conducted by EPA staff are printed by EPA, or submitted to professional journals so that the reports will reach the most appropriate audience. In the latter case, reprints are frequently purchased and distributed by EPA. Conference proceedings, findings of various commissions and study groups, and other collateral literature are also made available as supplies permit. Certain of the items have been grouped in various combinations in special information kits.

The publications listed herein are arranged in the categories that we have found useful in answering inquiries; they may appear in more than one category. For convenience in ordering and to expedite distribution, each publication has been assigned a permanent order number, and single copies may be ordered by using the form at the back of this

catalog. In addition to the approximately 275 titles that are available from us and the Superintendent of Documents, we are now listing a group of EPA publications on solid waste management that are available only from the Department of Commerce National Technical Information Service (NTIS). Certain of our reports on grant and contract activities have been published through NTIS because of the need to make this technical data available to a larger technical audience as speedily as possible. The reader must request these directly from NTIS, as indicated on page 46.

In gathering together and publishing this body of information on solid waste management, EPA hopes to assist those engaged in the task of finding ways to manage the Nation's burden of solid wastes. The Agency hopes, too, that by indicating the breadth of the solid waste management field, additional people may be attracted into the field--as investigators, as engineers, as managers--wherever their talent fits. And, most important, we hope that the American citizen will see in the publications and other materials available here, evidence of progress made and of the need for continued effort in response to the solid-waste-related legislation enacted by the Congress.

--THOMAS F. WILLIAMS, *Director*  
*Technical Information Staff*



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OSWMP  
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- 55. Solid waste management/composting; European activity and American potential. S. A. Hart. Public Health Service Publication No. 1826. Washington, U.S. Government Printing Office, 1968. 40 p.
- 232. Solid waste management demonstration grant projects--1971; for grants awarded during the period June 1, 1966--June 30, 1971. C. E. Sponagle and P. L. Stump. Public Health Service Publication No. 1821. Washington, U.S. Government Printing Office, 1971. 247 p.
- 292. Solid waste management in high-rise dwellings; a condensation. I. Kiefer. Washington, U.S. Government Printing Office, 1972. 19 p.
- 248. Solid waste management in residential complexes. Greenleaf/Telesca, Planners, Engineers, and Architects. Washington, U.S. Government Printing Office, 1971. [419 p.]
- 114. Solid waste processing; a state-of-the-art report on unit operations and processes. R. B. Engdahl. Public Health Service Publication No. 1856. Washington, U.S. Government Printing Office, 1969. 72 p.
- 327. The states' roles in solid waste management; a task force report. T. Anderson, et al. Lexington, Council of State Governments, 1973. 58 p. Reprinted, [Cincinnati], U.S. Environmental Protection Agency.
- 298. A study of solid waste collection systems comparing one-man with multi-man crews; a condensation. I. Kiefer. Washington, U.S. Government Printing Office, 1972. 32 p.
- 65. A study of solid waste collection systems comparing one-man with multi-man crews; final report. Ralph Stone and Company, Inc., Engineers. Public Health Service Publication No. 1892. Washington, U.S. Government Printing Office, 1969. 175 p.

- 267. The stuff we throw away. Stuart Finley, Inc. [Film narrative.] [Cincinnati], U.S. Environmental Protection Agency, 1972. 8 p.
- 165. Summaries of solid waste intramural research and development projects. A. W. Breidenbach, comp. Washington, U.S. Government Printing Office, 1971. 24 p.
- 85. Summaries of solid waste management contracts, July 1, 1965--June 30, 1970. H. H. Connolly, comp. Public Health Service Publication No. 1897. Washington, U.S. Government Printing Office, 1969. 46 p.
- 190. Summaries of solid waste research and training grants--1970. L. W. Lefke, A. G. Keene, R. A. Chapman, and H. Johnson, comps. Public Health Service Publication No. 1596. Washington, U.S. Government Printing Office, 1971. 134 p. Addendum (insert), Apr. 1, 1970--July 31, 1971. 8 p.
- 136. Systems analysis of regional solid waste handling. N. Morse and E. W. Roth. Public Health Service Publication No. 2065. Washington, U.S. Government Printing Office, 1970. [294 p.]
- 84. A systems study of solid waste management in the Fresno area; final report on a solid waste management demonstration. Aerojet-General Corporation. Public Health Service Publication No. 1959. Washington, U.S. Government Printing Office, 1969. [411 p.]
- 269. What's new in solid waste management? Stuart Finley, Inc. [Film narrative.] [Cincinnati], U.S. Environmental Protection Agency, 1972. 14 p.

## titles, most recent publications

- \* Analysis of airport solid wastes and collection systems; San Francisco International Airport. Metcalf & Eddy, Inc. U.S. Environmental Protection Agency, 1973. 137 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-219 372.)
- 326. The beverage container problem; analysis and recommendations. T. H. Bingham and P. F. Mulligan. [Research Triangle Institute.] Washington, U.S. Government Printing Office, 1972. 190 p.

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\*Not available from the Environmental Protection Agency.

- \* Development of construction and use criteria for sanitary landfills; final report on a solid waste management demonstration grant. Department of County Engineer, County of Los Angeles, and Engineering-Science, Inc. U.S. Environmental Protection Agency, 1973. [511 p.] (Distributed by National Technical Information Service, Springfield, Va., as PB-218 672.)
- 322. Ecology of compost; a public involvement project. D. L. Dindal. Syracuse, State University of New York College of Environmental Science and Forestry, 1972. 12 p.
- 324. Making polyethylene more disposable. I. Kiefer. Washington, U.S. Government Printing Office, 1973. 24 p. [Condensation.]
- 325. Oregon's bottle bill: the first six months. E. Claussen. [Cincinnati], U.S. Environmental Protection Agency, 1973. 14 p.
- 328. Pesticides and containers; acceptance, disposal, and storage; proposed rulemaking and issuance of procedures. Federal Register, 38(99):13622-13626, May 23, 1973.
- 329. Pyrolysis: a possible new approach to solid waste disposal and recycling. [Cincinnati, U.S. Environmental Protection Agency], May 1973. 4 p.
- 323. Regional management of solid wastes; a planning study. I. Kiefer. Washington, U.S. Government Printing Office, 1973. 7 p. [Condensation.]
- 321. Resource recovery; the state of technology. Midwest Research Institute. [Prepared for the Council on Environmental Quality.] Washington, U.S. Government Printing Office, 1973. 67 p.
- 171. The Solid Waste Disposal Act, Title II of Public Law 89-272, 89th Cong., S.306, Oct. 20, 1965; as amended by the Resource Recovery Act of 1970, Public Law 91-512, 91st Cong., H.R.11833, Oct. 26, 1970; and by Public Law 93-14, 93d Cong., H.R.5446, Apr. 9, 1973. (To extend the amended Solid Waste Disposal Act for one year.) [Cincinnati], U.S. Environmental Protection Agency, 1973. 14 p.
- 221. Solid waste disposal; proposed guidelines for thermal processing and land disposal of solid wastes. Federal Register, 38(81): 10544-10553, Apr. 27, 1973.
- \* Solid waste as fuel for power plants. Horner & Shifrin, Inc. U.S. Environmental Protection Agency, 1973. 146 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-220 316.)

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\*Not available from the Environmental Protection Agency.

320. Solid waste management--closing the circle. S. Hale, Jr. [Cincinnati, U.S. Environmental Protection Agency, 1972.] 21 p. Reprinted, [2d ed.], Washington, U.S. Government Printing Office, 1973. 19 p.
- \* Solid waste management in the food processing industry. A. M. Katsuyama, N. A. Olson, R. L. Quirk, and W. A. Mercer. [National Canners Association.] U.S. Environmental Protection Agency, 1973. 304 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-219 019.)
327. The states' roles in solid waste management; a task force report. T. Anderson, et al. Lexington, Council of State Governments, 1973. 58 p. Reprinted, [Cincinnati], U.S. Environmental Protection Agency.

## titles, ntis reports

*The following solid waste management publications are available from the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22151.*

- Analysis of airport solid wastes and collection systems; San Francisco International Airport. Metcalf & Eddy, Inc. U.S. Environmental Protection Agency, 1973. 137 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-219 372. HC\* \$5.45; MF† \$0.95.)
- Analysis of Federal programs affecting solid waste generation and recycling. SCS Engineers. U.S. Environmental Protection Agency, 1972. 153 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-213 311. HC \$3.00; MF \$0.95.)‡
- Appendix A: codification of solid waste management authority in Kentucky. Kentucky State Department of Health. U.S. Environmental Protection Agency, 1971. 175 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-201 205. HC\* \$3.00; MF \$0.95.)
- Baling solid waste to conserve sanitary landfill space; a feasibility study. City of San Diego. U.S. Environmental Protection Agency, 1973. 89 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-214 960. HC \$4.85; MF \$0.95.)

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\*Hard copy.

†Microfiche.

‡Office of Research and Monitoring project from the National Environmental Research Center, Cincinnati.

Collection, reduction, and disposal of solid waste in high-rise multi-family dwellings. National Academy of Sciences--National Research Council. U.S. Environmental Protection Agency, 1971. 169 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-197 623. HC \$3.00; MF \$0.95.)

Combustion power unit-400; CPU-400; a technical abstract. Combustion Power Company, Inc. U.S. Department of Health, Education, and Welfare, 1969. 15 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-187 299. HC \$3.00; MF \$0.95.)

Corrosion studies in municipal incinerators. Battelle Columbus Laboratories. U.S. Environmental Protection Agency, 1972. 120 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-213 378. HC \$3.00; MF \$0.95.)\*

Development of construction and use criteria for sanitary landfills; final report on a solid waste management demonstration grant. Department of County Engineer, County of Los Angeles, and Engineering-Science, Inc. U.S. Environmental Protection Agency, 1973. [511 p.] (Distributed by National Technical Information Service, Springfield, Va., as PB-218 672. HC \$12.50; MF \$0.95.)

Evaluation, extraction, and recycling of certain solid waste components. Great Lakes Research Institute. U.S. Environmental Protection Agency, 1972. [110 p.] (Distributed by National Technical Information Service, Springfield, Va., as PB-208 674. HC \$5.45; MF \$0.95.)

Evaluation of a multi-functional machine for use in sanitary landfill operations in sparsely populated areas. V. L. Hammond. [Battelle Memorial Institute.] U.S. Environmental Protection Agency, 1972. 209 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-212 589. HC \$6.75; MF \$0.95.)

Gainesville compost plant; an interim report. Gainesville Municipal Waste Conversion Authority, Inc. U.S. Department of Health, Education, and Welfare, 1969. [345 p.] (Distributed by National Technical Information Service, Springfield, Va., as PB-187 311. HC \$6.00; MF \$0.95.)

Generation of steam from solid wastes. Metcalf & Eddy, Inc., and City of Lynn, Massachusetts. U.S. Environmental Protection Agency, 1972. [139 p.] (Distributed by National Technical Information Service, Springfield, Va., as PB-214 166. HC \$5.45; MF \$0.95.)

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\*Office of Research and Monitoring project from the National Environmental Research Center, Cincinnati.

- Identification of opportunities for increased recycling of ferrous solid waste. W. J. Regan, R. W. James, and T. J. McLeer. [Institute of Scrap Iron and Steel, Inc.] U.S. Environmental Protection Agency, 1972. 391 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-213 577. HC \$10.60; MF \$0.95.)
- Incentives for recycling and reuse of plastics. J. Milgrom. [Arthur D. Little, Inc.] U.S. Environmental Protection Agency, 1972. [316 p.] (Distributed by National Technical Information Service, Springfield, Va., as PB-214 045. HC \$9.00; MF \$0.95.)
- An investigation of the biodegradability of packaging plastics. J. E. Potts, R. A. Clendinning, and W. B. Ackart. U.S. Environmental Protection Agency, 1972. 80 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-213 488. HC \$4.85; MF \$0.95.)\*
- An investment decision model for control technology. R. M. Clark. U.S. Environmental Protection Agency, 1972. 20 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-213 482. HC \$3.00; MF \$0.95.)\*
- Land reclamation project; an interim report. Harza Engineering Company. U.S. Department of Health, Education, and Welfare, 1968. [338 p.] (Distributed by National Technical Information Service, Springfield, Va., as PB-187 301. HC \$3.00; MF \$0.95.)
- Landfill decomposition gases--an annotated bibliography. J. A. Geyer. U.S. Environmental Protection Agency, 1972. 28 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-213 487. HC \$3.75; MF \$0.95.)\*
- Management information for solid waste collection. R. M. Clark. U.S. Environmental Protection Agency, 1972. 18 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-213 308. HC \$3.00; MF \$0.95.)\*
- Mathematical modeling and computer simulation for designing municipal refuse collection and haul services. S. Wersan, J. Quon, and A. Charnes. U.S. Environmental Protection Agency, 1971. [446 p.] (Distributed by National Technical Information Service, Springfield, Va., as PB-208 154. HC \$6.00; MF \$0.95.)
- Metropolitan housewives' attitudes toward solid waste disposal. National Analysts, Inc. U.S. Environmental Protection Agency, 1972. 80 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-213 340. MF \$0.95.)\* HC \$1.50†

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†Hard copy available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.



- Organic pesticides and pesticide containers; a study of their decontamination and combustion. R. C. Putnam, F. Ellison, R. Protzmann, and J. Hilovsky. U.S. Environmental Protection Agency, 1971. 175 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-202 202. HC \$3.00; MF \$0.95.)
- Pollution of subsurface water by sanitary landfills. v. 2. A. A. Fungaroli. U.S. Environmental Protection Agency, 1971. 216 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-209 001. HC \$3.00; MF \$0.95.)
- Pollution of subsurface water by sanitary landfills. v. 3. A. A. Fungaroli. U.S. Environmental Protection Agency, 1971. 169 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-209 002. HC \$3.00; MF \$0.95.)
- Rail transport of solid wastes; a feasibility study; interim report: phase one. American Public Works Association Research Foundation. U.S. Department of Health, Education, and Welfare, 1969. 168 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-187 306. HC \$6.00; MF \$0.95.)
- Rural storage and collection container systems. Humboldt County and Garretson-Elmendorf-Zinov-Reibin, Consultants. U.S. Environmental Protection Agency, 1972. 146 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-212 398. HC \$3.00; MF \$0.95.)
- Satellite vehicle systems for solid waste collection; evaluation and application. R. A. Perkins. U.S. Environmental Protection Agency, 1971. 243 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-197 931. HC \$3.00; MF \$0.95.)
- Ski mountain; a conceptual feasibility study in solid waste management. Metropolitan Sanitary District of Greater Chicago. U.S. Environmental Protection Agency, 1972. [324 p.] (Distributed by National Technical Information Service, Springfield, Va., as PB-213 697. HC \$9.00; MF \$0.95.)
- Solid waste and fiber recovery demonstration plant for the City of Franklin, Ohio; an interim report. N. T. Neff. [A. M. Kinney, Inc.] U.S. Environmental Protection Agency, 1972. 83 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-213 646. HC \$4.85; MF \$0.95.)
- Solid waste as fuel for power plants. Horner & Shifrin, Inc. U.S. Environmental Protection Agency, 1973. 146 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-220 316. HC \$3.00; MF \$1.45.)

- Solid waste handling and disposal in multistory buildings and hospitals.  
v. II. Observations of local practices. Esco/Greenleaf. U.S. Environmental Protection Agency, 1972. [310 p.] (Distributed by National Technical Information Service, Springfield, Va., as PB-213 133. HC \$6.00; MF \$0.95.)
- Solid waste handling and disposal in multistory buildings and hospitals.  
v. IV. Selection and design of solid waste systems. Esco/Greenleaf. U.S. Environmental Protection Agency, 1972. [198 p.] (Distributed by National Technical Information Service, Springfield, Va., as PB-213 135. HC \$3.00; MF \$0.95.)
- Solid waste management in the food processing industry. A. M. Katsuyama, N. A. Olson, R. L. Quirk, and W. A. Mercer. [National Canners Association.] U.S. Environmental Protection Agency, 1973. 304 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-219 019. HC \$9.00; MF \$0.95.)
- Solid waste transfer stations; a state-of-the-art report on systems incorporating highway transportation. T. A. Hegdahl. U.S. Environmental Protection Agency, 1972. 160 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-213 511. HC \$6.00; MF \$0.95.)
- Special studies for incinerators; for the government of the District of Columbia, Department of Sanitary Engineering. Day & Zimmermann, Engineers and Architects. Public Health Service Publication No. 1748. Washington, U.S. Government Printing Office, 1968. 80 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-187 286. MF \$0.95.) HC \$0.75\*
- Special studies of a sanitary landfill. R. C. Merz and R. Stone. U.S. Department of Health, Education, and Welfare, 1970. [222 p.] (Distributed by National Technical Information Service, Springfield, Va., as PB-196 148. HC \$3.00; MF \$0.95.)
- A study to identify opportunities for increased solid waste utilization.  
v. I. Battelle Memorial Institute. U.S. Environmental Protection Agency, 1972. [178 p.] (Distributed by National Technical Information Service, Springfield, Va., as PB-212 729. HC \$3.00; MF \$0.95.)
- A study to identify opportunities for increased solid waste utilization.  
v. II to VII. Battelle Memorial Institute. U.S. Environmental Protection Agency, 1972. [608 p.] (Distributed by National Technical Information Service, Springfield, Va., as PB-212 730. HC \$9.00; MF \$0.95.)

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\*Hard copy available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

A study to identify opportunities for increased solid waste utilization. v. VIII and IX. Battelle Memorial Institute. U.S. Environmental Protection Agency, 1972. [342 p.] (Distributed by National Technical Information Service, Springfield, Va., as PB-212 731. HC \$6.00; MF \$0.95.)

Technical-economic study of solid waste disposal needs and practices. Combustion Engineering, Inc. Public Health Service Publication No. 1886. Washington, U.S. Government Printing Office, 1969. [705 p.] (Distributed by National Technical Information Service, Springfield, Va., as PB-187 712. HC \$6.00; MF \$0.95.)

Urban solid waste management; economic case study. R. M. Clark. U.S. Environmental Protection Agency, 1972. 21 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-213 394. HC \$3.00; MF \$0.95.)\*

The use of bags for solid waste storage and collection. Ralph Stone and Company, Inc. U.S. Environmental Protection Agency, 1972. 264 p. (Distributed by National Technical Information Service, Springfield, Va., as PB-212 590. HC \$6.75; MF \$0.95.)

## EXHIBITS

Help preserve the good earth. Permanent exhibit, 6 ft. x 6 ft. Shipping wt., 1,100 lbs. U.S. Environmental Protection Agency, 1970, rev. 1972.

Protect the good earth. Portable exhibit, 3 panels, 2 ft. x 2-1/2 ft. Carrying wt., 35 lbs. U.S. Environmental Protection Agency, 1972.

## FILMS

*The following solid waste management films are available from the National Audiovisual Center, General Services Administration, Washington, D.C. 20409. For descriptions of film content, see our publication "Films Tell the Story" (OSWMP order number 207).*

A day at the dump. 15 minutes, 16-mm motion picture, sound, color, 1968.

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\*Office of Research and Monitoring project from the National Environmental Research Center, Cincinnati.

The green box. 17 minutes, 16-mm motion picture, sound, color, 1970.

In the bag. 19 minutes, 16-mm motion picture, sound, color, 1969.

Operation responsible: safe refuse collection. 20 minutes, 16-mm motion picture, sound, color, 1972. [Part of training program that includes an instructor's manual with 24 2x2 color slides and a training manual with 24 2x2 color slides.]

The realities of recycling. 38 minutes, 16-mm motion picture, sound, color, 1971.

Recycling. 21 minutes, 16-mm motion picture, sound, color, 1971.

Sanitary landfill: one part earth to four parts refuse. 24 minutes, 16-mm motion picture, sound, color, 1969.

Sanitary landfill--you're the operator. 22 minutes, 16-mm motion picture, sound, color, 1972.

The stuff we throw away. 22 minutes, 16-mm motion picture, sound, color, 1970.

The third pollution. 23 minutes, 16-mm motion picture, sound, color, 1966.

What's new in solid waste management. 37 minutes, 16-mm motion picture, sound, color, 1970.

## MISCELLANEOUS

### Certificates

Mission 5000 certificate. [Washington, U.S. Environmental Protection Agency, 1971.] 1 p.

Certificate of participation. [Cincinnati, U.S. Environmental Protection Agency, 1973.] 1 p.

Delaney, J. E., and J. M. Sweeten. Sanitary landfill synopsis. [Cincinnati], U.S. Environmental Protection Agency, [1972]. [2 p.] [Pocket-size calculator.]

### Information kits

Concerned citizens. [Contains information on solid waste management and citizen participation, resource recovery, solid waste management programs, studies, and information sources.]

Students information. [General information on solid waste management.]

Mission 5000. [Information on the solid waste management issue and EPA's project to close 5000 dumps.]

Resource recovery--I. [Specific information on recycling and resource recovery.]

Resource recovery--II. [Highly technical information on recycling and resource recovery.]

Mission 5000. Button [1 in.]. Poster [16 in. x 20 in.]. Decal [2 in.].

State solid waste management agencies. [Cincinnati], U.S. Environmental Protection Agency, Apr. 1973. 6 p. [List.]

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