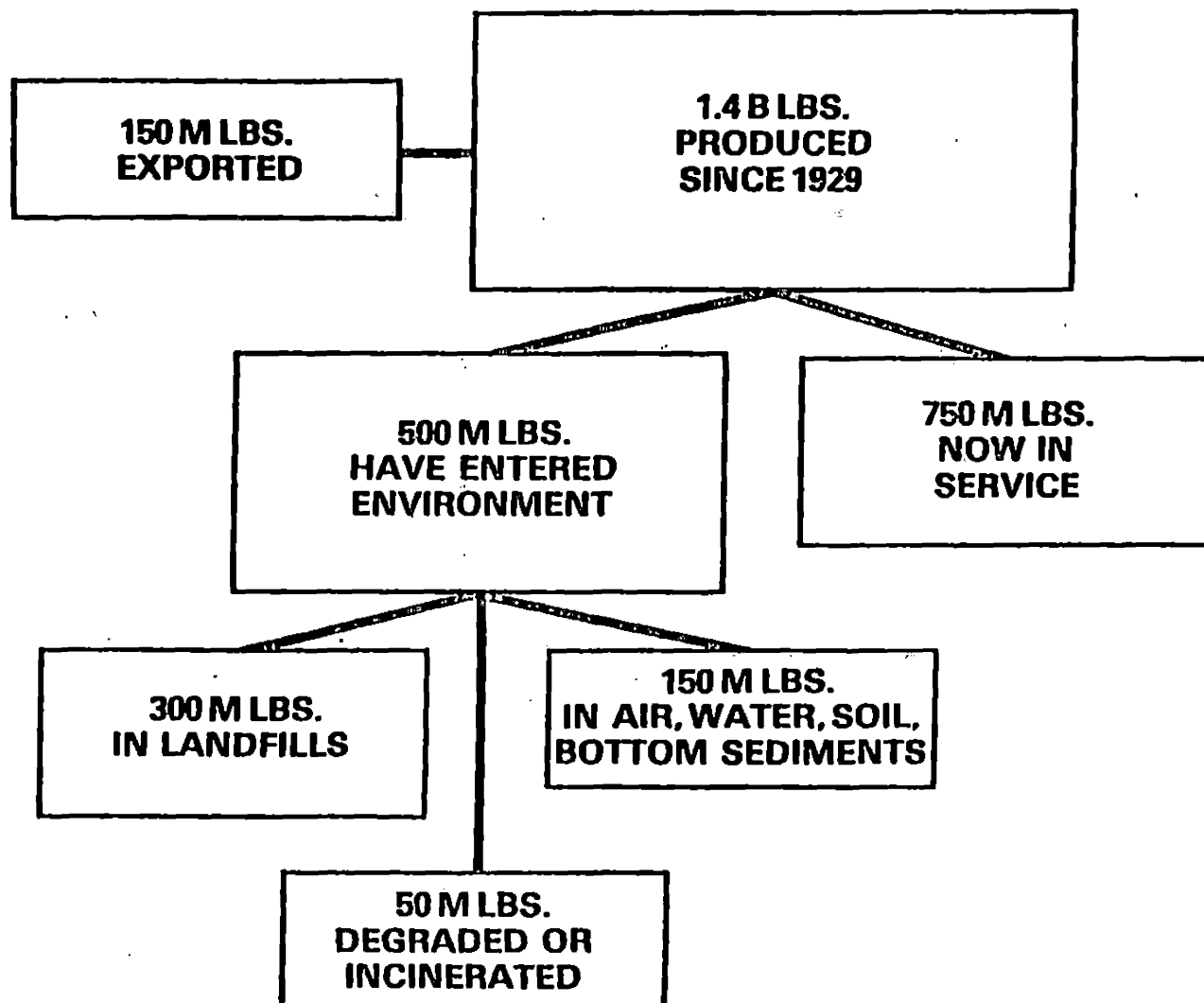


PCB HISTORY IN THE U.S.



PCBs IN THE ECONOMY

Millions of Pounds

	<u>Sold to Date</u>	<u>Currently In Use</u>	<u>Annual Additions (1974)</u>	<u>Annual Losses</u>	<u>Individual Units In Use</u>	<u>Comments</u>
Transformers	337	300	3.5%	1%	135,000	
Public Buildings					30%	200-3,000 lb/unit
Trains/Subways					50%	500-1,500 lb/unit
Industrial Applications					20%	1,000-12,000 lb/unit
Large Capacitors (>2 lb)	290	180	6%	2%	5M	
Electrical Utilities					90%	
Industrial Applications					10%	
Small Capacitors	430	270	3%	3%	790M	
Lights, TV, Air Conditioners					70%	.07-1 lb/unit
Motors, Other Industrial Uses					30%	.1-1 lb/unit
Paper Products	63					
Miscellaneous (Sealants, Paints, Inks)	40					
Investment Casting Wax	3	.7-2	5%			
Hydraulics/Lubricants	87					
Mining						
Other						

774000

OBJECTIVES

LONG-TERM

- **ELIMINATE PCBs FROM ECONOMY**

NEAR-TERM

- **ELIMINATE PRODUCTION AND IMPORT OF PCBs AND PCB-CONTAINING PRODUCTS**

IMMEDIATE

- **INTERDICT AS MANY ENVIRONMENTAL DISCHARGES OF PCBs AS POSSIBLE**

WITHOUT UNNECESSARILY

- **DENYING PUBLIC OF ESSENTIAL PRODUCTS AND SERVICES AT REASONABLE COST**
 - **DISRUPTING EXISTING BUSINESS PATTERNS**
 - **JEOPARDIZING OUR INTERNATIONAL COMPETITIVE POSITION**
-

STRATEGY IN IMMEDIATE FUTURE

Utilize Federal Authorities Under FWPCA

Permit Program

Toxic Effluent Standards

Pretreatment Standards

Water Quality Criteria

Spill Regulations

Encourage Use of State and Local Authorities

Effluent Standards

Solid Waste Disposal Regulations

**Encourage Voluntary Steps by Manufacturers,
Transporters, Users, and Disposers**

Reduce Losses from Federal Facilities

Accelerate Assessment Activities

Seek Toxic Substances Control Legislation

774003

ILLUSTRATIVE PCB ROUTES TO AQUATIC ENVIRONMENT

(Transformers and Capacitors)

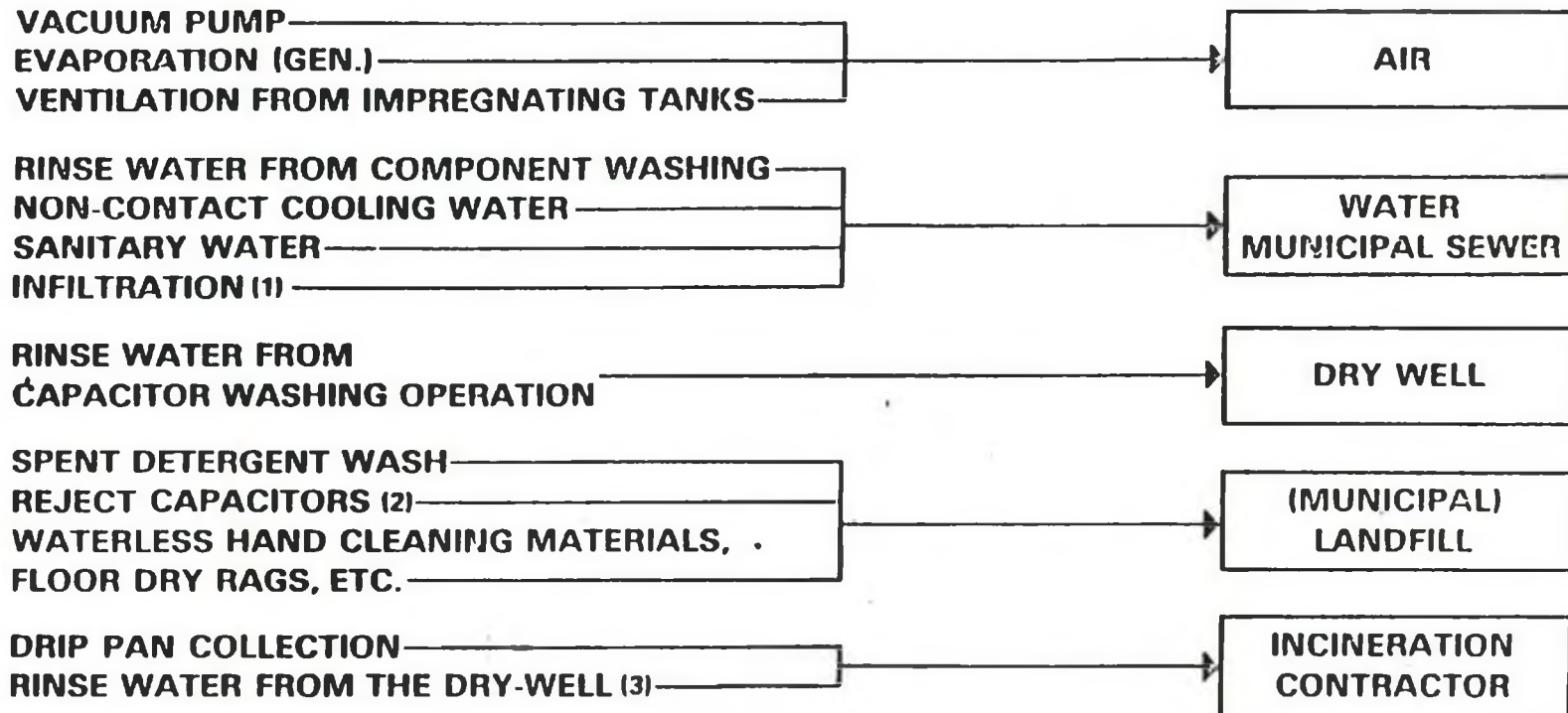
	<u>DIRECT TO WATER</u>	<u>INDIRECT VIA SOIL</u>	<u>INDIRECT VIA AIR</u>
NEAR MANUFACTURING SITES	[Process & Coolant Effluent (2) Storm Runoff (2)	Landfill Seepage (3)	Emissions and Vaporization (2)
TRANSPORT AND STORAGE	[Water Spills (1)	Land Spills (3) Equipment Leaks (2)	Emissions and Vaporization (1)
AT OPERATIONAL SITES	[	Liquid Overflow (1)	Venting (1)
DISPOSAL	[	Landfill Seepage (4) Product Abandonment (4)	Emissions and Vaporization (3)

(4) >>> 10,000 lbs/yr. (2) 1,000 - 10,000 lbs/yr.
(3) > 10,000 lbs/yr. (1) < 1,000 lbs/yr.

005554

PCB DISCHARGE ROUTES (Small Capacitor Plant)

774005



NOTES: (1) INCLUDES MISCELLANEOUS SPILL IN TRANSFER OR STORAGE
(2) QUANTITY OF REJECTS IS 3-4%
(3) NO WATER HAS BEEN PUMPED & SENT TO INCINERATION TO THIS DATE

POSSIBLE ALTERNATIVES TO PCBs

TRANSFORMERS

Mineral Oil in Vault or Relocation Site

Air or Gas Cooled

Environmentally Acceptable Replacement Fluids

LARGE CAPACITORS

Mineral Oil at Selected Sites

Use of DC Motors

Environmentally Acceptable Replacement Fluids

SMALL CAPACITORS

Elimination of Need for Filler (e.g. plastic film)

Environmentally Acceptable Replacement Fluids