Ash Collection & Utilization 1979

(Million Tons)

	Fly Ash Tons x 10^6	Bottom Ash Tons x 10^6	Boiler Slag (if separated from Bottom Ash) Tons x 10^6
1. TOTAL ASH COLLECTED	57.5	12.5	5.2
2. ASH UTILIZED	10.0	3.3	2.4
A. COMMERCIAL UTILIZATION			
a. Mixed with raw material before forming cement clinker	.62		
b. Mixed with cement clinker or mixed with cement (Type 1-P cement)	.21		
c. Partial replacement of cement in concrete and blocks	1.9		
d. Lightweight aggregate	.64		
e. Fill material for roads, construction sites, land reclamation, ecology dikes, etc.	1.0		
f. Stabilizer for road bases, parking areas, etc.	1.2		
g. Filler in asphalt mix	.6		
h. Miscellaneous	.4		
ASH DISPOSED OF AT A PROFIT	6.6		
B. ASH REMOVED FROM PLANT SITES AT NO COST TO UTILITY	1.4		
C. ASH UTILIZED FROM DISPOSAL SITES AFTER DISPOSAL COSTS	2.0		
TOTAL ASH UTILIZED	10.0		

Comparative Results

Ash Collected	1966*	1975	1976	1977	1978	1979
Fly Ash	17.1	42.3	42.8	48.5	48.3	57.5
Bottom Ash	8.1	13.1	14.3	14.1	14.7	12.5
Boiler Slag		4.6	4.8	5.2	5.1	5.2
TOTAL ASH COLLECTED—TONS x 10^6	25.2	60.0	61.9	67.8	68.1	75.2
Ash Utilized						
Fly Ash	1.4	4.5	5.7	6.3	8.4	10.0
Bottom Ash	1.7	3.5	4.5	4.6	5.0	3.3
Boiler Slag		1.8	2.2	3.1	3.0	2.4
TOTAL ASH UTILIZED—TONS x 10^6	3.1	9.8	12.4	14.0	16.4	15.7
Percent of Ash Utilized						
% Fly Ash	7.9	10.6	13.3	13.0	17.4	17.4
% Bottom Ash	21.0	26.7	31.5	32.6	34.0	26.4
% Boiler Slag		40.0	45.8	60.0	58.8	46.0
PERCENT OF TOTAL ASH UTILIZED	12.1	16.4	20.0	20.7	24.1	21.0

*First year that data was taken
**1967-1974 data omitted from tabulation because of space limitation.

Compiled by the National Ash Association and Edison Electric Institute.

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