Ash Production, Ash Utilization - 1981

(Million Tons)

I.	ANNUAL COAL CONSUMPTION	597.11		
		Fly Ash	Bottom Ash	Boiler Slag
II.	TOTAL ASH PRODUCED	50.26	12.87	5.18
III.	ASH UTILIZED	9.41	4.07	2.93
	1. EXTERNAL UTILIZATION			
	a. Cement and concrete products	3.11	.57	.19
	b. Structural fills	.55	.14	.44
	c. Road base	.18	.27	.14
	d. Filler in asphalt mix	.08	-0-	.05
	e. Snow and ice control	.01	.69	.41
	f. Blasting grit and roofing granules	-0-	-0-	1.18
	g. Grouting	.39	-0-	-0-
	h. Coal mining applications	.05	.01	.01
	i. Miscellaneous	.09	.16	.01
	TOTAL EXTERNAL UTILIZATION	5.06	1.84	2.43
	2. INTERNAL UTILIZATION			
	a. Cement and concrete products	.05	-0-	-0-
	b. Structural fills	1.69	1.64	.49
	c. Road base	.02	.31	.01
	d. Miscellaneous	2.59	.28	-0-
	TOTAL INTERNAL UTILIZATION	4.35	2.23	.50
	3. TOTAL ASH UTILIZED	9.41	4.07	2.93
	4. ASH REMOVED TO DISPOSAL AREA AT COMPANY EXPENSE WITH NO UTILIZATION	40.85	8.80	2.25
	5. TOTAL ASH PRODUCED	50.26	12.87	5.18

Comparative Results

Ash Produced	1966*	1976	1977	1978	1979	1980	1981
Fly Ash	17.1	42.8	48.5	48.3	57.5	48.31	50.26
Bottom Ash	8.1	14.3	14.1	14.7	12.5	14.45	12.87
Boiler Slag	-0-	4.8	5.2	5.1	5.2	3.64	5.18
TOTAL ASH PRODUCED	25.2	61.9	67.8	68.1	75.2	66.40	68.31
Ash Utilized							
Fly Ash	1.4	5.7	6.3	8.4	10.0	6.42	9.41
Bottom Ash	1.7	4.5	4.6	5.0	3.3	4.26	4.07
Boiler Slag	-0-	2.2	3.1	3.0	2.4	1.75	2.93
TOTAL ASH UTILIZED	3.1	12.4	14.0	16.4	15.7	12.43	16.41
Percent of Ash Utilized							
%Fly Ash	7.9	13.3	13.0	17.4	17.4	13.3	19.0
%Bottom Ash	21.0	31.5	32.6	34.0	26.4	29.5	32.0
%Boiler Slag	-0-	45.8	60.0	58.8	46.0	48.1	57.0
PERCENT OF TOTAL ASH UTILIZED	12.1	20.0	20.7	24.1	21.0	18.7	24.0

*First year that data was taken

**1967-1975 data omitted from tabulation because of space limitation.

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Compiled by the National Ash Association