Ash Production Ash Utilization — 1986

		1986 (Million Tons)
I.	ANNUAL COAL CONSUMPTION	682.65
II.	TOTAL ASH PRODUCED	66.80
III.	ASH UTILIZED	14.506

	FLY ASH	BOTTOM ASH	BOILER SLAG
1. EXTERNAL UTILIZATION			
a. Cement and concrete products	4.69	.574	.075
b. Structural fills	.37	.365	.031
c. Road base	.45	.225	.031
d. Filler in asphalt mix	.12	.043	.046
e. Snow and ice control	—	.369	.365
f. Blasting grit and roofing granules	—	.138	1.453
g. Grouting	.19	—	—
h. Coal and mining applications	.025	.002	—
i. Miscellaneous	.732	.392	.002
TOTAL EXTERNAL UTILIZATION	**6.577**	**2.108**	**2.003**
2. INTERNAL UTILIZATION			
a. Cement and concrete products	.001	—	—
b. Structural fills	1.653	.953	.039
c. Road base	.067	.250	.076
d. Miscellaneous	.478	.274	.027
TOTAL INTERNAL UTILIZATION	**2.199**	**1.477**	**.142**
3. TOTAL ASH UTILIZED	**8.776**	**3.585**	**2.145**
4. ASH REMOVED TO DISPOSAL AREA AT COMPANY EXPENSE WITH NO UTILIZATION	**40.483**	**9.826**	**1.985**
5. TOTAL ASH PRODUCED	**49.259**	**13.411**	**4.15**

Comparative Results

Ash Produced	***1966**	**1980**	**1981**	**1982**	**1983**	**1984**	**1985**	**1986**
Fly Ash	17.1	48.31	50.26	47.91	47.15	51.32	48.31	49.259
Bottom Ash	8.1	14.45	12.87	13.13	12.73	13.62	13.15	13.411
Boiler Slag	-0-	3.64	5.18	4.37	3.94	4.21	3.65	4.13
TOTAL ASH PRODUCED	**25.2**	**66.40**	**68.31**	**65.41**	**63.82**	**69.15**	**65.11**	**66.80**
Ash Utilized								
Fly Ash	1.4	6.42	9.41	7.95	7.52	10.43	11.39	8.776
Bottom Ash	1.7	4.26	4.07	3.63	2.76	2.96	4.10	3.585
Boiler Slag	-0-	1.75	2.93	1.97	2.53	2.65	2.38	2.145
TOTAL ASH UTILIZED	**3.1**	**12.43**	**16.41**	**13.55**	**12.81**	**16.04**	**17.87**	**14.506**
Percent of Ash Utilized								
% Fly Ash	7.9	13.3	19.0	16.6	15.9	20.3	23.5	17.8
% Bottom Ash	21.0	29.5	32.0	27.6	21.6	21.7	31.1	26.7
% Boiler Slag	-0-	48.1	57.0	45.1	64.2	62.9	65.2	51.9
PERCENT OF TOTAL ASH UTILIZED	**12.1**	**18.7**	**24.0**	**20.7**	**20.0**	**23.1**	**27.4**	**21.7**

*First year that data was taken

1967-1979 data omitted from tabulation because of space limitation.

Compiled by the AMERICAN COAL ASH ASSOCIATION, INC. **1000 16th Street, Washington, D.C. 20036**