American Coal Ash Association (ACAA)

1993 Coal Combustion Byproduct (CCB) – Production and Use* (Short Tons)

	Fly Ash	Bottom Ash	Boiler Slag	FGD Material
A. CCB Production	47,756,492	14,215,711	6,228,523	20,340,130
Subtotal--Fly Ash, Bottom Ash, and Boiler Slag			68,200,726	
Total--All CCBs				88,540,856
B. CCB Use				
1. External Market Applications				
a. Cement and Concrete Products	6,791,608	467,990	172,342	0
b. Flowable Fill	336,390	1,720	0	0
c. Structural Fill	669,215	107,348	0	11,698
d. Road Base/Subbase	947,603	649,140	21,377	189,617
e. Mineral Filler in Asphalt	108,286	0	48,882	0
f. Snow and Ice Control	608	989,578	196,345	0
g. Blasting Grit/Roofing Granules	0	9,553	2,711,165	0
h. Grouting	16,437	273	129,589	0
i. Coal Mining Applications	18,708	10,984	0	0
j. Wallboard	0	0	0	633,526
k. Waste Stabilization	437,676	0	0	299,262
l. Miscellaneous/Other	544,057	166,404	32,236	11,891
Subtotal--External Market Applications	9,870,588	2,402,990	3,311,936	1,145,994
2. Internal Producer Applications				
a. Cement and Concrete Products	0	0	0	0
b. Flowable Fill	44,059	834	0	0
c. Structural Fills	242,268	111,821	0	0
d. Road Base/Subbase	58,802	870,592	1,872	17,082
e. Snow and Ice Control	0	16,484	585	0
f. Miscellaneous/Other	292,107	828,528	109,624	0
Subtotal--Internal Producer Applications	637,236	1,828,259	112,081	17,082
Total External Market and Internal Producer Applications	10,507,824	4,231,249	3,424,017	1,163,076
Subtotal--Fly Ash, Bottom Ash, and Boiler Slag			18,163,090	
Total--All CCBs				19,326,166
C. Use as a Percentage of Production for Individual CCBs	22.003%	29.765%	54.973%	5.718%
D. Use as a Percentage for Fly Ash, Bottom Ash & Boiler Slag Combined			26.632%	

* Based on total coal burn of 814.0 million tons by domestic utilities, as reported by the Energy Information Administration. For metric tonnage, multiply tabular values by 0.9078.

American Coal Ash Association, 2760 Eisenhower Avenue, Suite 304, Alexandria, VA 22314 USA Phone: 703-317-2400 Fax: 703-317-2409