# American Coal Ash Association (ACAA)

## 1992 Coal Combustion Byproduct – Production and Use* (Short Tons)

| | Fly Ash | Bottom Ash | Boiler Slag | FGD Material |
|---|---|---|---|---|
| A. Byproduct Production | 48,061,898 | 13,917,623 | 4,112,796 | 15,883,538 |
| Subtotal--Fly Ash, Bottom Ash, and Boiler Slag | | | 66,092,317 | |
| Total--All Byproducts | | | | 81,975,855 |
| | | | | |
| B. Byproduct Use | | | | |
| 1. External Market Applications | | | | |
| a. Cement and Concrete Products | 7,124,600 | 471,438 | 298,029 | 0 |
| b. Structural Fill | 787,167 | 286,685 | 192,936 | 0 |
| c. Road Base/Subbase | 1,183,656 | 433,804 | 43,834 | 70,832 |
| d. Mineral Filler in Asphalt | 180,377 | 160,939 | 116,906 | 0 |
| e. Snow and Ice Control | 0 | 451,064 | 323,247 | 0 |
| f. Blasting Grit/Roofing Granuals | 0 | 28,133 | 2,034,523 | 0 |
| g. Grouting | 35,718 | 0 | 0 | 0 |
| h. Coal Mining Applications | 83,279 | 116 | 0 | 0 |
| i. Wallboard | 0 | 0 | 0 | 202,858 |
| j. Waste Stabilization | 472,534 | 57,083 | 14,774 | 971 |
| k. Miscellaneous/Other | 506,040 | 45,932 | 0 | 1,165 |
| Subtotal--External Market Applications | 10,373,371 | 1,935,194 | 3,024,249 | 275,826 |
| 2. Internal Utility Applications | | | | |
| a. Cement and Concrete Products | 2,276 | 0 | 0 | 0 |
| b. Structural Fills | 1,278,049 | 141,355 | 2,763 | 0 |
| c. Road Base/Subbase | 37,776 | 600,777 | 736 | 13,948 |
| d. Snow and Ice Control | 0 | 18,480 | 1,032 | 0 |
| e. Miscellaneous/Other | 1,379,642 | 1,174,435 | 60,934 | 0 |
| Subtotal--Internal Utility Applications | 2,697,743 | 1,935,047 | 65,465 | 13,948 |
| | | | | |
| Total External Market and Internal Utility Applications | 13,071,114 | 3,870,241 | 3,089,714 | 289,774 |
| Subtotal--Fly Ash, Bottom Ash, and Boiler Slag | | | 20,031,069 | |
| Total--All Byproducts | | | | 20,320,843 |
| C. Byproduct Use as a Percentage of Production by Individual Byproduct | 27.20% | 27.81% | 75.12% | 1.82% |
| D. Byproduct Use as a Percentage of Fly Ash Bottom Ash & Boiler Slag Only | | | 30.31% | |

* Based on Total Coal Burn of 779.8 Million Tons by Domestic Utilities, as Reported by the Energy Information Administration
For Metric Tonnage, multiply tabular values by 0.9078.

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