# Ash Production Ash Utilization - 1982

| | (Million Tons) |
|---|---|
| I. ANNUAL COAL CONSUMPTION | 585.37 |
| II. TOTAL ASH PRODUCED | 65.41 |
| III ASH UTILIZED | 13.55 |

| | FLY ASH | BOTTOM ASH | BOILER SLAG |
|---|---|---|---|
| **1. EXTERNAL UTILIZATION** | | | |
| a. Cement and concrete products | 2.68 | .38 | .12 |
| b. Structural Fills | .44 | .23 | .06 |
| c. Road Base | .23 | .69 | .07 |
| d. Filler in asphalt mix | .10 | -0- | .06 |
| e. Snow and ice control | -0- | .62 | .73 |
| f. Blasting grit and roofing granules | .07 | -0- | .68 |
| g. Grouting | .29 | -0- | -0- |
| h. Coal mining applications | .11 | -0- | -0- |
| i. Miscellaneous | .62 | .10 | .07 |
| **TOTAL EXTERNAL UTILIZATION** | **4.54** | **2.02** | **1.79** |
| **2. INTERNAL UTILIZATION** | | | |
| a. Cement and concrete products | .01 | -0- | -0- |
| b. Structural fills | 1.69 | 1.45 | .06 |
| c. Road Base | .03 | .05 | .005 |
| d. Miscellaneous | 1.68 | .11 | .12 |
| **TOTAL INTERNAL UTILIZATION** | **3.41** | **1.61** | **.18** |
| **3. TOTAL ASH UTILIZED** | **7.95** | **3.63** | **1.97** |
| **4. ASH REMOVED TO DISPOSAL AREA AT COMPANY EXPENSE WITH NO UTILIZATION** | 39.96 | 9.50 | 2.40 |
| **5. TOTAL ASH PRODUCED** | **47.91** | **13.13** | **4.37** |

# Comparative Results

| | 1966* | 1977** | 1978 | 1979 | 1980 | 1981 | 1982 |
|---|---|---|---|---|---|---|---|
| **Ash Produced** | | | | | | | |
| Fly Ash | 17.1 | 48.5 | 48.3 | 57.5 | 48.31 | 50.26 | 47.91 |
| Bottom Ash | 8.1 | 14.1 | 14.7 | 12.5 | 14.45 | 12.87 | 13.13 |
| Boiler Slag | -0- | 5.2 | 5.1 | 5.2 | 3.64 | 5.18 | 4.37 |
| **TOTAL ASH PRODUCED** | **25.2** | **67.8** | **68.1** | **75.2** | **66.40** | **68.31** | **65.41** |
| **Ash Utilized** | | | | | | | |
| Fly Ash | 1.4 | 6.3 | 8.4 | 10.0 | 6.42 | 9.41 | 7.95 |
| Botom Ash | 1.7 | 4.6 | 5.0 | 3.3 | 4.26 | 4.07 | 3.63 |
| Boiler Slag | -0- | 3.1 | 3.0 | 2.4 | 1.75 | 2.93 | 1.97 |
| **TOTAL ASH UTILIZED** | **3.1** | **14.0** | **16.4** | **15.7** | **12.43** | **16.41** | **13.55** |
| **Percent of Ash Utilized** | | | | | | | |
| % Fly Ash | 7.9 | 13.0 | 17.4 | 17.4 | 13.3 | 19.0 | 16.6 |
| % Bottom Ash | 21.0 | 32.6 | 34.0 | 26.4 | 29.5 | 32.0 | 27.6 |
| % Boiler Slag | -0- | 60.0 | 58.8 | 46.0 | 48.1 | 57.0 | 45.1 |
| **PERCENT OF TOTAL ASH UTILIZED** | **12.1** | **20.7** | **24.1** | **21.0** | **18.7** | **24.0** | **20.7** |

*First year that data was taken

**1967-1976 data omitted from tabulation because of space limitation.

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