

## Geochemical Database of Feed Coal and Coal Combustion Products (CCPs) from Five Power Plants in the United States

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### Introduction

The principal mission of the U.S. Geological Survey (USGS) Energy Resources Program (ERP) is to (1) understand the processes critical to the formation, accumulation, occurrence, and alteration of geologically based energy resources; (2) conduct scientifically robust assessments of those resources; and (3) study the impacts of energy resource occurrence and (or) their production and use on both the environment and human health. The ERP promotes and supports research resulting in original, geology-based, non-biased energy information products for policy and decision makers, land and resource managers, other Federal and State agencies, the domestic energy industry, foreign governments, non-governmental groups, and academia. Investigations include research on the geology of oil, gas, and coal, and the impacts associated with energy resource occurrence, production, quality, and utilization. The ERP's focus on coal is to support investigations into current issues pertaining to coal production, beneficiation and (or) conversion, and the environmental impact of the coal combustion process and coal combustion products (CCPs). To accomplish these studies, the USGS combines its activities with other organizations to

address domestic and international issues that relate to the development and use of energy resources.

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- [Pamphlet PDF \(1.1 MB\)](#)
- [References PDF \(1.9 MB\)](#)

#### How to Access and Navigate Data

- [Instructions](#)
- [List of Files](#)
- [Data Series ZIP \(174.1 MB\)](#)

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from four fly ash sources. The fifth sample source was bottom ash, and was not included in the dataset. Concentrations of the following COPCs were reported for these samples: antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, manganese, mercury, molybdenum, nickel, selenium, thallium, uranium, vanadium, and zinc. All constituents were analyzed by radiographic techniques. • Effects of Coal Combustion Fly Ash Use