Earlier this year, EPA announced a retroactive update to PM2.5 data collected at stationary air monitors using a specific sensor model between 2017-2023. In 2023, over 400 monitors in the Air Quality System (AQS) data repository—nearly half of all PM2.5 monitors—with over 2 million hourly observations were affected by this change. On a per-monitor annual average, the change lowered PM2.5 readings by 1.14 mg/m3 or by 14.7 percent of pre-change average concentrations (or 12.6 percent of the current annual NAAQS standard). We intend to analyze these data changes and write a “user’s guide” to illustrate the correct use of this very important data source. Through ad hoc conversations with researchers, the broader research community that leverages AQS data in empirical research largely seem to be unaware of this correction. We are in the early stages of the project.