

Plant Patent Portal (PPP) Project

The United States Patent and Trademark Office (USPTO) has collected thousands of plant-related patents over the years. The University of Maryland STEM Library operates a [database](#) that contains over 40,000 of these, dating to the 1930s and representing inventors from dozens of countries across the world. In this project, the University of Maryland McKeldin Library's [GIS and Data Service Center](#) seeks to create an interactive web mapping product that allows users to explore these patents in an intuitive way. We categorized all the patents by botanical category and visualized the 10 largest ones with different colors (with all others falling into an “other” category). We also developed a filter tool that allows the user to filter between patents based on botanical category, US state, or country. We also included a feedback survey which can be accessed through the “Feedback Form” button in the bottom left corner of the app.

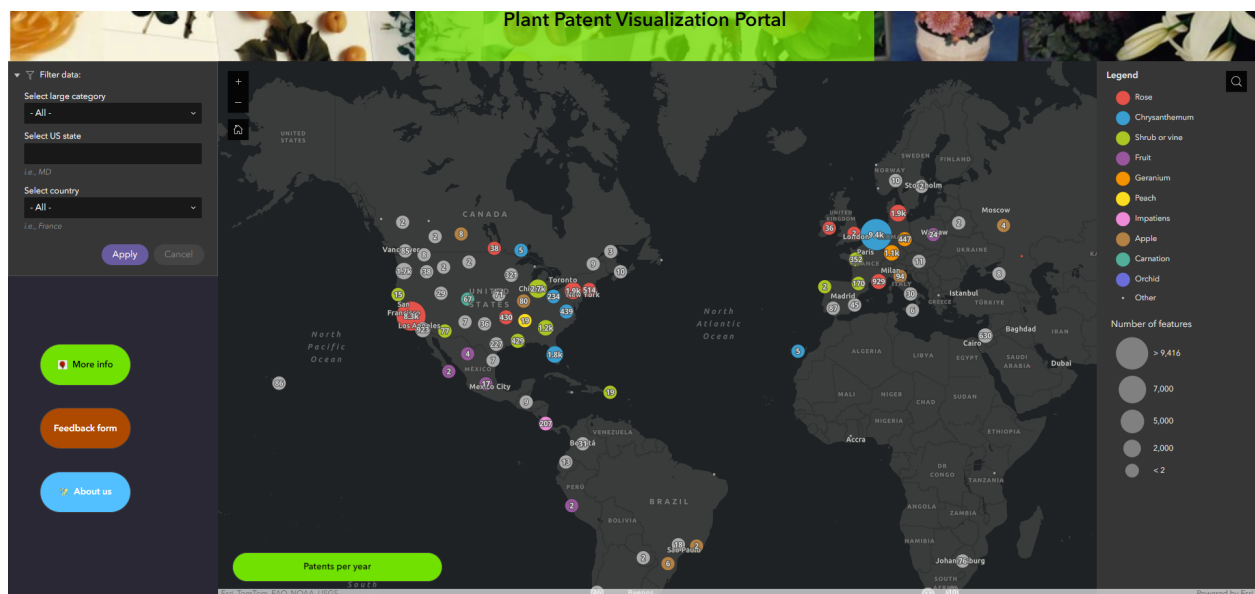


Fig. 1: The default view of the application. Note the legend at right (including the 10 biggest botanical categories) and the filter tool at top left. Bottom left contains three buttons with relevant links, including to a survey for users. The bright green button at the bottom left of the map opens a chart with the number of patents per year.

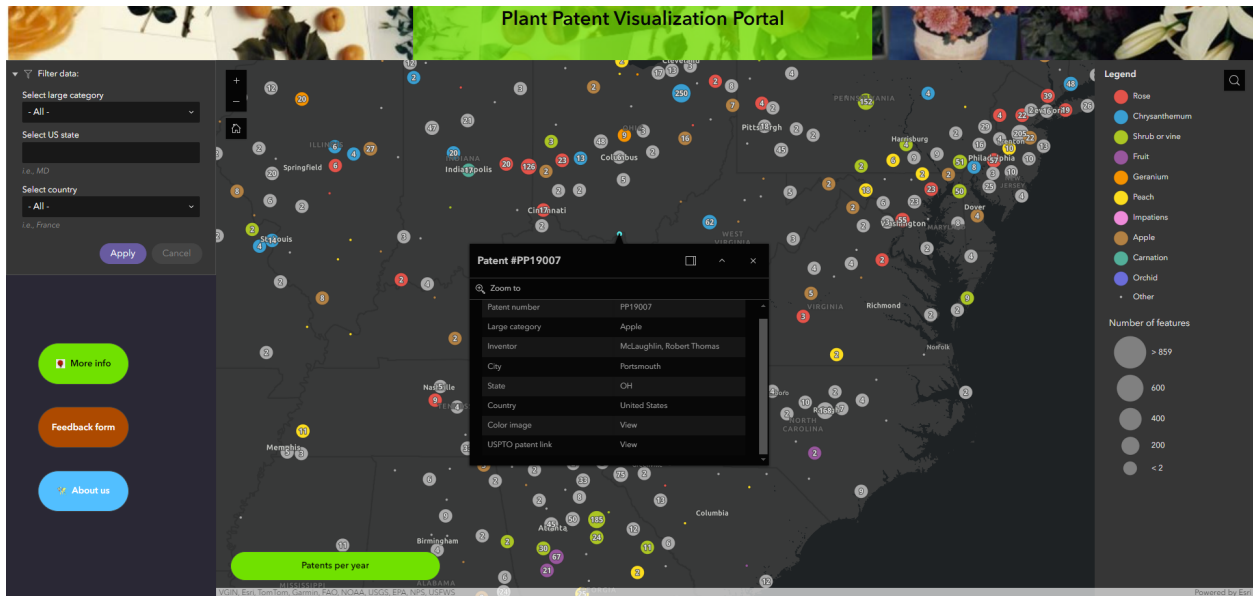


Fig. 2: Pop-up for individual patent. Included are links to the full patent PDF and color images.

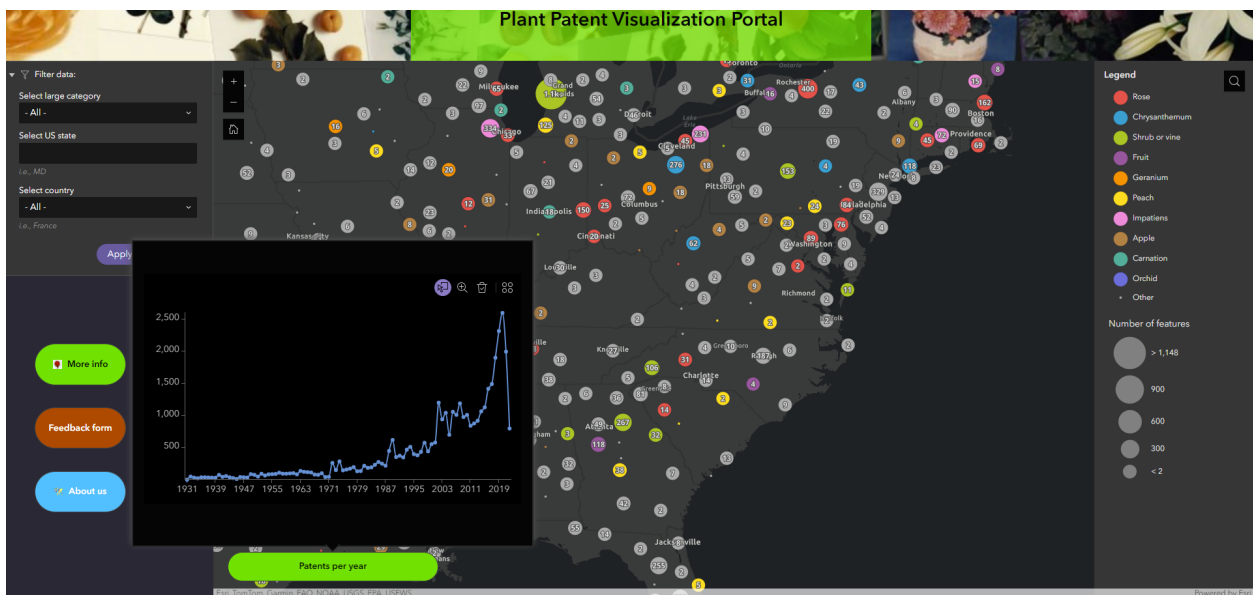


Fig 3: The patents per year pop-up, opened.

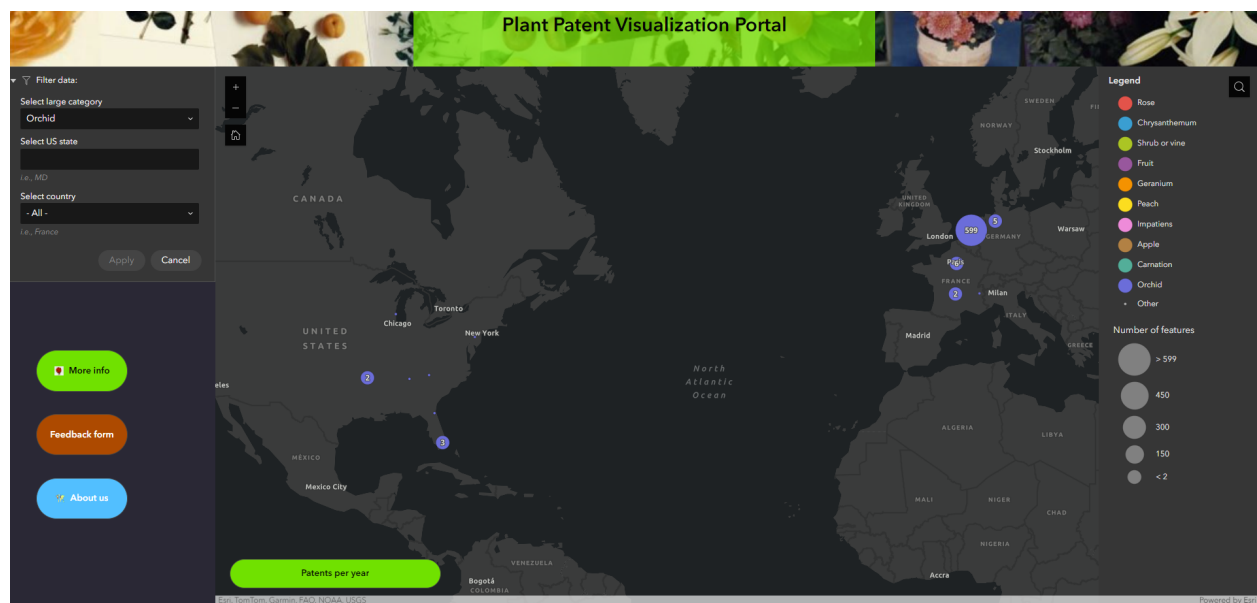


Fig. 4: Filtering out patents by botanical category; in this case, orchids.

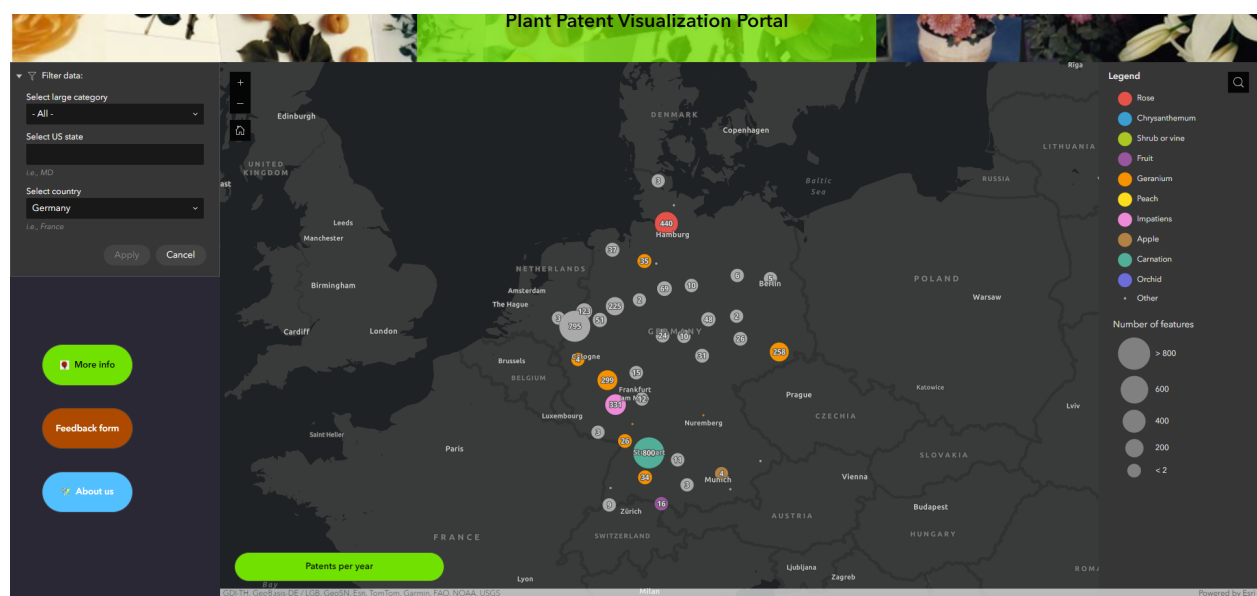


Fig. 5: Filtering out patents by country; in this case, Germany.

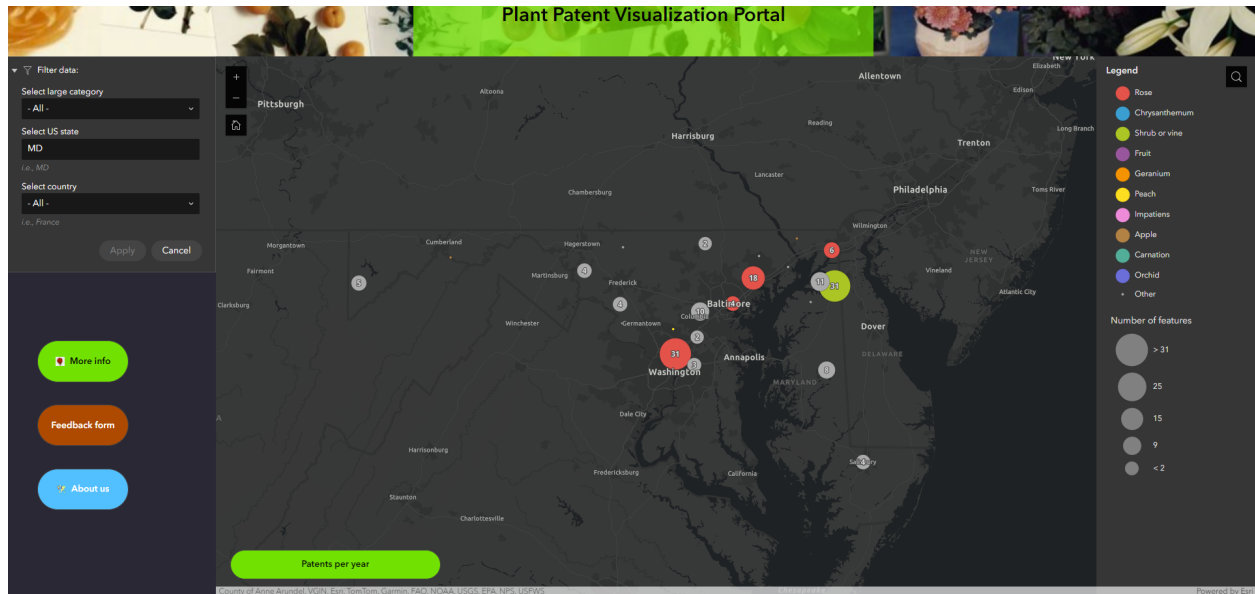


Fig. 6: Filtering out patents by US state; in this case, Maryland.

The link to the application is below:

Link: <https://experience.arcgis.com/experience/66f3d3c0403c4e55b9c6063817d3229c/>



