**Key Agriculture:**

* Mediterranean fruit fly (aka Medfly): Apples, avocados, bell peppers, melons, tomatoes.
  + <https://newsforkids.net/articles/2023/11/08/fighting-fruit-flies-withfruit-flies/> This article discusses a recent fruit fly outbreak in California and the steps they are taking to mitigate the outbreak (and how they have in the past). The content of this article is more cautionary than informative. While it poses the outbreak as a threat, it strikes down concern at the same time. Words of importance: threat, solution, method, problem.
  + <https://www.elsegundo.org/Home/Components/News/News/3260/268327> Same as above. It poses medfly as a threat but outlines how citizens can help prevent the spread of the pests. Key words: protect,
* Melon fly: Vegetable crops, especially cucurbits like melon, pumpkin, squash, zucchini, and cucumber.
  + <https://assets.ippc.int/static/media/files/pestreport/2023/08/15/report__zeugodacus_DNSAB_03_augst_2023_English.pdf> More informative…and it states so in the paper’s objective. **This is perhaps a good thing to look at when it comes to classifying a paper.**
* Oriental fruit fly: Notable ones include apricots, cherries, figs, tomatoes.
* Caribbean fruit fly: Mango, Annona, papaya, avocado, west Indian cherry, guava, coffee, citrus, tomato, sapote
* South American Cucurbit fruit fly: citrus, malus, prunus
* Spotted Lanternfly: Tree of heaven, black walnut maples, willow river birch, black cherry, tulip poplar, + more.
* Emerald ash borer: bark of ash trees.
* Orange tortrix: leaves, buds, and surface of fruits.
* Oriental fruit moth: peach, plum, apricot, apples, pears, cherry

Week one tasks:

* Create a timeline for myself
* Project goals: Automate the process of interpreting an article. While we are easily able to do so manually, there would be a lot of benefit from automating this process for researchers.
  + Natural language processing.
  + APIs.
* Reach out to Sagrario and Morgan

The end goal of the project is to have a working classifier that is able to get the information from an article about a certain pest and create a table of all of the useful information as well as a summary of all of the information gathered.

* Do more of email tasks…create same chart that Sagrario did.
* **I. Identify** possible risks and threats from monitoring **unstructured** information and **structured** (national and international information monitoring).
* **II. Evaluation** of the degree of **certainty of the monitored information** (level of reliability), verification and validation of information sources.

Top 15 Countries **Mexico Imports** From: USA, China, South Korea, Germany, Japan, Malaysia, Canada, Brazil, Vietnam, Thailand, Italy, India, Spain, France, Philippines. **(~87% of all imports as of 2022** [**https://tradingeconomics.com/mexico/imports-by-country**](https://tradingeconomics.com/mexico/imports-by-country)**).**

* Given this, we will mostly focus on imports coming from those countries.

Can break up articles into categories.

* Informative and cautionary. Informative has more scientific undertones, while cautionary may be scientific as well as suggestive. **(second)**
* Positive and negative. I anticipate most articles to be negative. **(third)**
* Classifying articles as relevant or not relevant **(first)**

Rough outline of the project:

* Client can start by putting an article into a file dropper in the form of a website link (??). The software then scrapes the website, and gives a summary and several classifications. (Create as a website using HTML, CSS, JavaScript/TypeScript)
* Will need to figure out how to efficiently display the information.

**Put everything into a GitHub repository for easy access for the rest of the team.**