# Scientists Meeting (1/23)

# Timestamp: Thursday January 23, 2020

Location: Academic Office Building room 203

Berry Bunch attendee’s: Piper Schlaeppi, Rebekah Craft, Dawson McKenzie, Jayleen Rossie, J.C. Helm

Scientists:

Tara Bal: Forestry, Lifecycle

Erika Hersch-Green: Biology, plant growth and tracking

Angie Carter: Social Sciences, assistance of environmental law

Looking for how sharing information works as a research idea

Tasks:

* Discuss overall concept development for the app
* Clarify scientists wants and expectations out of the app
* Gather information on the subject at hand, and the surrounding topics that should be incorporated into the app’s development

# Scientists Summary:

Handed out “Backyard Berry App Summary” packet

* + In depth explanation of the project and what they expect out of it
  + Detailed ideas for form, content, and usage
  + Will be shared with Piper later, will need to be put into the shared drive.

# Project Background:

* Washington D.C. Trip 2 years ago
  + Suggested combination of sociology, plants, and such
  + (SWD, *Drosophila suzukii)* Fruit Flies came into the region approximately 10 years ago
    - Lives inside most berries (widespread in region)
    - Plants itself in pre-ripe phase
      * Mother cuts into berry and plants eggs during this phase
      * Different from most fruit flies as most fruit flies come *after* the fruit overripe.
    - Accelerates ripening of berries
      * Economically hurting agriculture due to shorter shelf life and growing season
      * Impacts wildlife food source due to lower lifespan
  + Thought of the application as a way to get an idea of what people are picking
    - Lack of data on local food sources
      * Essentially no baseline data
      * No local berry picking information (**PRIMARY**). Picking for fun, work, etc.? Distance travelled, how long spent picking, etc.
    - Wanted to try to get data from all different types of people
      * Harvesting / Seeing
      * Locals/Tourists
    - Identification knowledge of berries
    - What do people do with said berries?
      * How this contributes economically via bartering, local sales, etc..
      * Cultural impact on abundance of berries and/or lack of.
* Grant Considerations
  + Not our primary goal
  + Extended goal of information
* Gained previous information from locals with groups / jam makers
  + Common berry names

## Our Initial Questions:

* Do you have a name for your app?
  + While they all enjoy the “Backyard Berry,” they are willing to adjust the name to our suggestions
    - Keep in mind that they already have Jess Brassard designing a logo, so changing the name after a logo is designed could be an issue if the scientists don’t really want it changed to begin with.
* How set in stone is the wording?
  + Not super well, still rather technical. Goal is to be made more user friendly and comprehensible. The user audience isn’t limited to scientists, but also open to tourists and locals.
* How best to represent the users profile, in relation to location
  + Discussed issue of public / private information exposure
  + Even though the profile can be private, the scientists would still like to obtain their data. The data will get sent directly to the scientists regardless of a published set of info or just personal
* Scoping of geographical area?
  + **NOT** Street address level
  + Western MI, Upper Wisconison, Over to Marquette
    - Probably not too the bridge
  + Will discuss implementation with at CS meeting, which can help us figure out regional area.
* Can revise provided documentation with cooperation?
  + Yes
* What do we expect from the next meeting:
  + Review provided documentations
    - Offer insights
  + Asked scientists to come up with a detailed list of what berries they expect in the app, and some general information about them
* Testing for fruit flies
  + Checkbox for present or absent
    - Reconsider phrasing, too ecologist sounding
  + Notes about contact info if they want to share it anyways or contact information
* Personal Accounts
  + Public/Private:
    - What all should be private / public
    - Only used for demographic information, data collection, and behavior
  + Anonymous:
    - No general user profile, this is a basic function to still use the app even if the account is not wanted. This is just more for commercial demographic and behavior - is there a way to track this information also?
    - Can view all public data
    - Designed for more tourist type
* What kind of functions do you absolutely want on the app?
  + Harvesting- is it mostly occurring during harvest season?
  + Time elapsed- how long does each user generally spend picking?
  + Quantity of: people, picking, use, etc.
  + Distance travelled by each user
  + Berry identifier
  + Pests- tips, description, importance, how to prevent/kill
* How would you prefer the broad vs direct info separated? Ex. berries and location vs insects and data
  + Design wise, this is mainly for us to figure out. They just want the data organized well
* Do you want the user to upload at-home testing?
  + Though it will not always be accurate, they want the data uploaded by the user as best they can.
  + Keep in mind: Time, type, presence/absence
* What do you mean by cultural use of berries?
  + Economically- impact on markets, trade (used as currency)
  + Impact on animal food source

## Their questions:

* Naming of the App “Backyard Berry”
  + Open to rebranding of app
  + Logo of the App possibly in creation by another person
    - Erika getting back to us with that
    - Designed by Jess Brassard

## Suggest App Requirements:

* Harvest form
* How did you obtain the berries
  + Family, Solo, Date, etc.
* User Accounts
* Page with “Berry Key” (generated from local jam shops)
  + Provided
* Page with fruit fly testing information
  + Provided larvae tet
* Maps
  + Baseline simplicity
* Language of the application:
  + Be open to everyone including tourists, not just locals
* Biography Page
  + Scientist Page w/ contact information
  + Angie suggested developers page as well
* Color Scheme
  + Want it to be relative to the local berries but don’t want the app to be ‘dark” as many of the local berries are dark.

## Provided Documentation:

* Shared via GDrive to Piper
  + Testing for flies
    - The fly is rather unique looking in the berries
    - Any other parasites are very different looking

## Other:

* Noted they are open to revisions
* Sample Data:
  + Getting provided by them
* Most Berry production is in the fall

## Their TODO:

* Erika getting back to us with logo
  + Possibly color scheme
* Tara writing documentation on some more basic info and knowledge about the fruit fly
* Get a set of sample data
  + You pick farm
  + Tech trails