Metadata for the manuscript “”

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Prepared by Jens Ulrich in December 2024.

**Phenology data (Figure 1)**

File: “./data/melissa\_2022\_2023\_phenology\_data.csv”.

**site**: indicates the unique site name where the survey event took place.

**date:** date on which the survey event took place, in mm/dd/yyyy format.

**year:** the year in which the survey event took place (2022 or 2023).

**month\_day:** the date of the survey in month-day format.

**code:** a unique code signifier for each individual bee. Blanks occur when no bees were collected at the site\*visit.

**species:** the species name of the bumble bee:

* “bom\_cal” == Bombus californicus
* “bom\_fla” == Bombus flavifrons
* “bom\_flv” == Bombus flavidus
* “bom\_hun” == Bombus huntii
* “bom\_imp” == Bombus impatiens
* “bom\_ins” == Bombus insularis
* “bom\_mel” == Bombus melanopygus
* “bom\_mix” == Bombus mixtus
* “bom\_occ” == Bombus occidentalis
* “bom\_sit” == Bombus sitkensis
* “bom\_vos” == Bombus vosnesenskii

**caste:** the caste of the bumble be:

* “w” == worker
* “m” == male
* “q” == queen
* “ “ (blank) == undetermined

**plant:** coded name of the plant that the bee was interacting with.

**notes:** any additional notes. Blank cells indicate no additional notes.

**Plant diet choice data (Figure 2)**

File: “./data/melissa\_2022\_2023\_logistic\_analyses\_file.csv”.

**site**: indicates the unique site name where the survey event took place.

**date:** date on which the survey event took place, in mm/dd/yyyy format.

**month\_day:** the date of the survey in month-day format.

**species:** the species name of the bumble bee:

* “bom\_cal” == Bombus californicus
* “bom\_fla” == Bombus flavifrons
* “bom\_flv” == Bombus flavidus
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* “bom\_vos” == Bombus vosnesenskii

**caste:** the caste of the bumble be:

* “w” == worker
* “m” == male
* “q” == queen
* “ “ (blank) == undetermined

**plant:** coded name of the plant that the bee was interacting with.

**invasive\_interaction:** 0 indicates the plant is not invasive. 1 indicates that the plant is invasive. See the manuscript methods for source used for determining invasive status.

**proportion\_invasive:** the proportion of flowers recorded in the site\*survey plant survey that were from invasive plants. Ranges from 0 (no invasive flowers) to 1 (only invasive flowers).

**Plant-pollinator interaction NMDS data (Figure 3)**

File: “./nmds/ Melissa\_commun\_matrix\_no0.csv”.

There is a row for each site\*species combination. There is a column for every flowering plant species for which one or more interaction was observed. In the data matrix, the integer values indicate the number of interactions observed for the site\*species combination for each of the flowering plants.

File: “./nmds/Community\_meta\_data\_mini.csv”.

This is the metadata required for the NMDS analysis. Column 1 (no title) indicates the species\*site codes used in the community matrix. This “mini” metadata file is only for the five focal species used in the analysis. There are two columns clarifying the code meaning:

**Site**: indicates the unique site name where the survey event took place.

**Species:** the species name of the bumble bee:

* “bom\_fla” == Bombus flavifrons
* “bom\_imp” == Bombus impatiens
* “bom\_mel” == Bombus melanopygus
* “bom\_mix” == Bombus mixtus
* “bom\_vos” == Bombus vosnesenskii