# Supplementary Materials

Supplemental Table 1. Number of *Cirsium pitcheri* plants at different life stages in a demographic monitoring plot (30 x 100 meters) at Ship Canal Nature Preserve from 2016 to 2022. This plot is separate from the pollinator observation plots but is representative of changes seen across the whole site (approximately 10 acres of dune habitat). The entire population of *Cirsium pitcheri* at Ship Canal includes plants in the preserve and plants on 10 adjacent privately held lakefront homes with relatively low numbers of plants.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Stage** | **No. of Plants (2016)** | **No. of Plants (2017)** | **No. of Plants (2018)** | **No. of Plants (2019)** | **No. of Plants (2020)** | **No. of Plants (2021)** | **No. of Plants (2022)** |
| Seedlings | 275 | 696 | 641 | 278 | 110 | 63 | 5 |
| Vegetative Plants | 482 | 337 | 317 | 452 | 192 | 98 | 25 |
| Flowering Plants | 50 | 37 | 28 | 27 | 18 | 4 | 4 |

Number of flowering *Cirsium pitcheri* plants over the entire Ship Canal Preserve from 2015 to 2022.

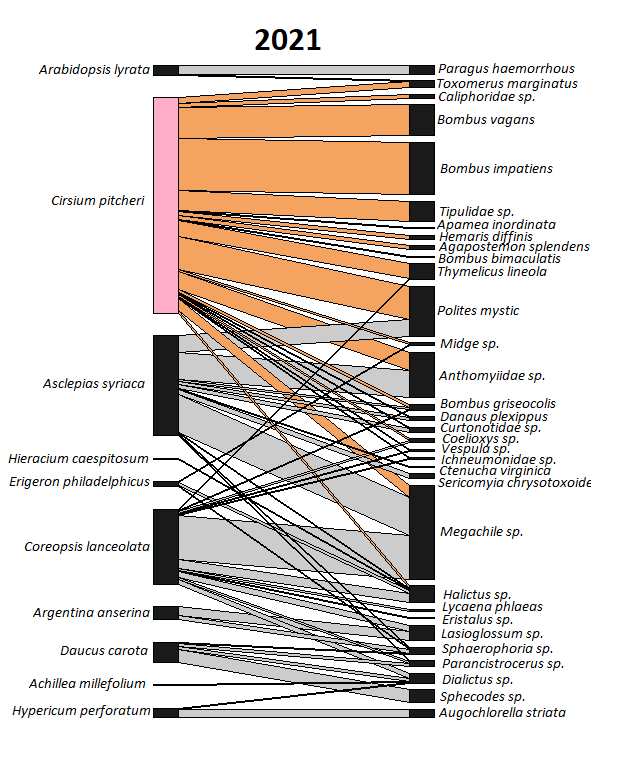
|  |  |
| --- | --- |
| Year | Flowering plant count |
| 2015 | 362 |
| 2016 | 645 |
| 2017 | Data not collected |
| 2018 | 288 |
| 2019 | 263 |
| 2020 | 352 |
| 2021 | 164 |
| 2022 | 54 |

**Figure S1.** Ship Canal Nature Preserve plant-pollinator network in 2016, before invasive plant removal and decline of *Cirsium pitcheri*.

Diagram

Description automatically generated

**Figure S2.** Ship Canal Nature Preserve plant-pollinator network in 2021, after invasive plant removal and the beginning of *Cirsium pitcheri* decline.



**Figure S3.** Ship Canal Nature Preserve plant-pollinator network in 2022, after invasive plant removal and the continued decline of *Cirsium pitcheri*.

