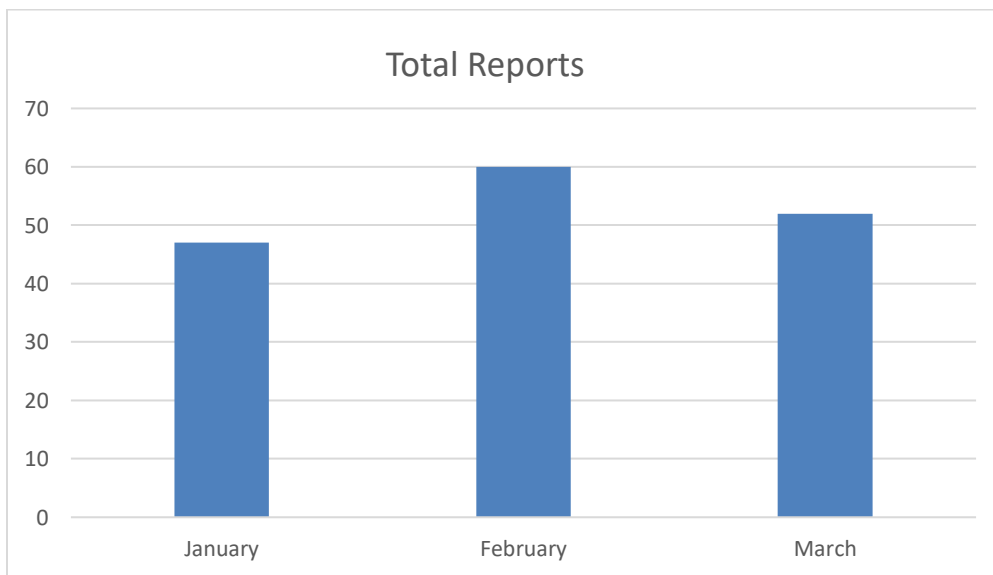
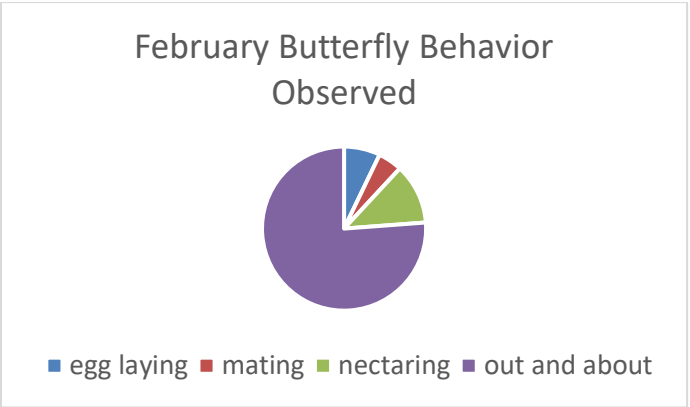
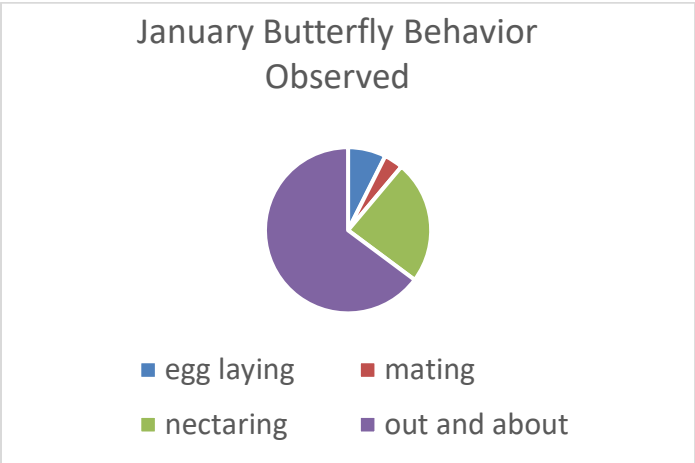
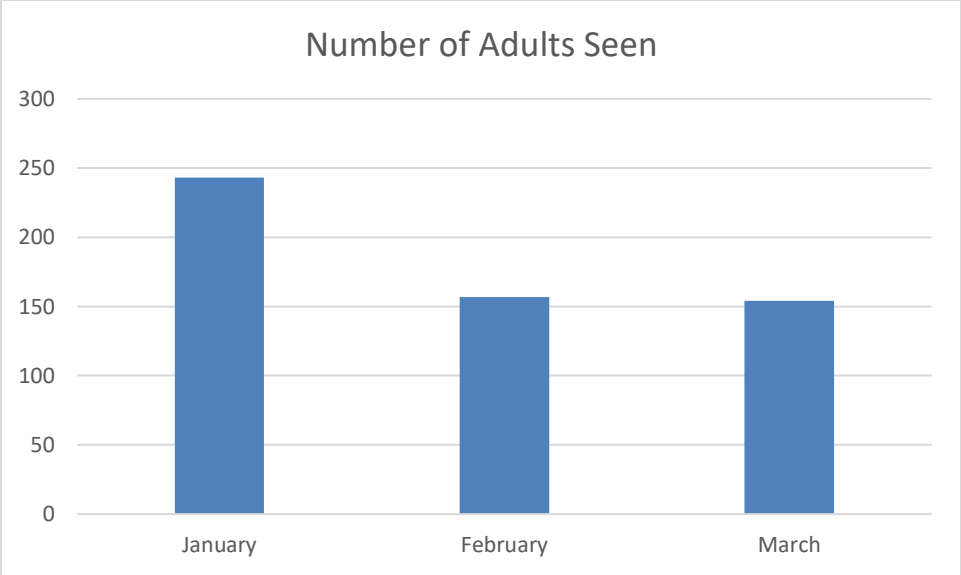


# Pollinator Posse 2021 Monarch Survey Results as of April 1, 2021

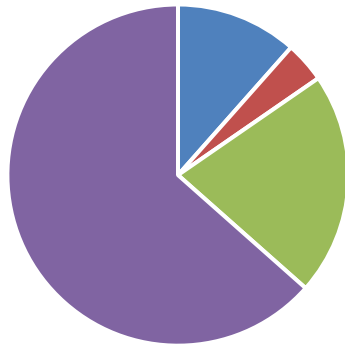


The Survey was promoted to people all over Northern California with a focus on the Greater Bay Area from Santa Clara/San Jose in the South through Marin County in the North. Over time we hope to get a wider view of Northern California.





## March Butterfly Behavior Observed



■ egg laying ■ mating ■ nectaring ■ out and about

## Nectar Sources

### January

Lantana, Eucalyptus, Salvia, zinnia, Mexican Sunflower, Mexican Marigold, Bush Sunflower, Scabiosa, roses, calendula, loropetalum, allysum, Metrosideros exelsa tree

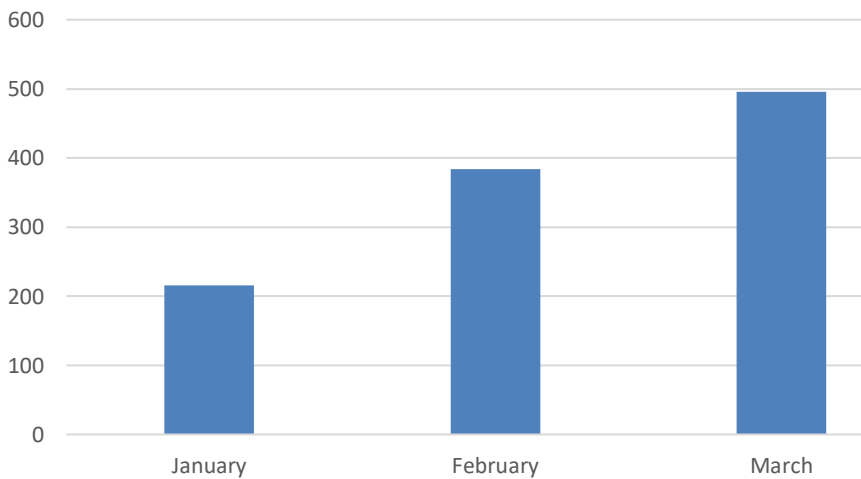
### February

Wall Flower, Salvia Clevelandii, dwarf bottlebrush, Cape Mallow, Lemon tree, wallflower, gaillardia, black sage, lantana, mexican marigold bush, Lantana, plum tree, scabiosa

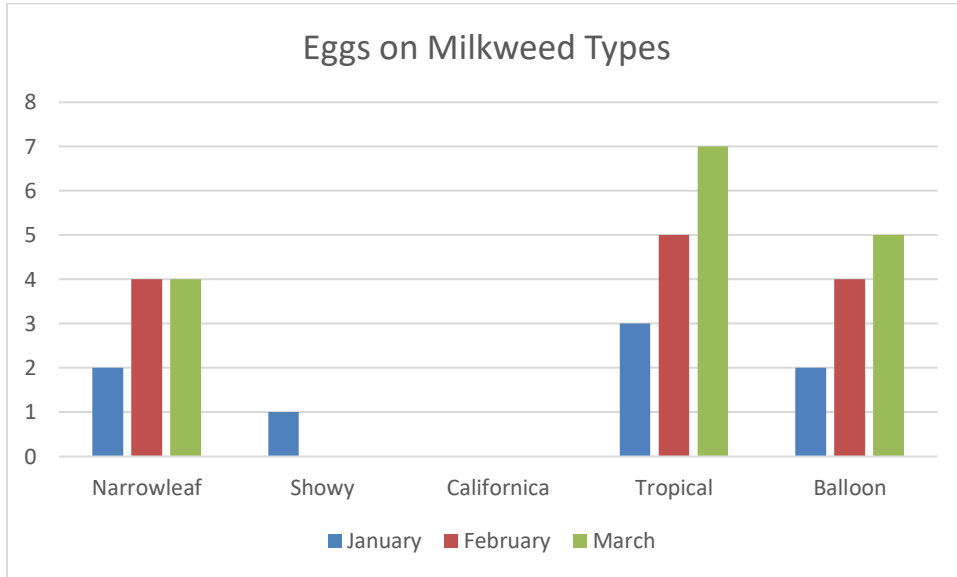
### March

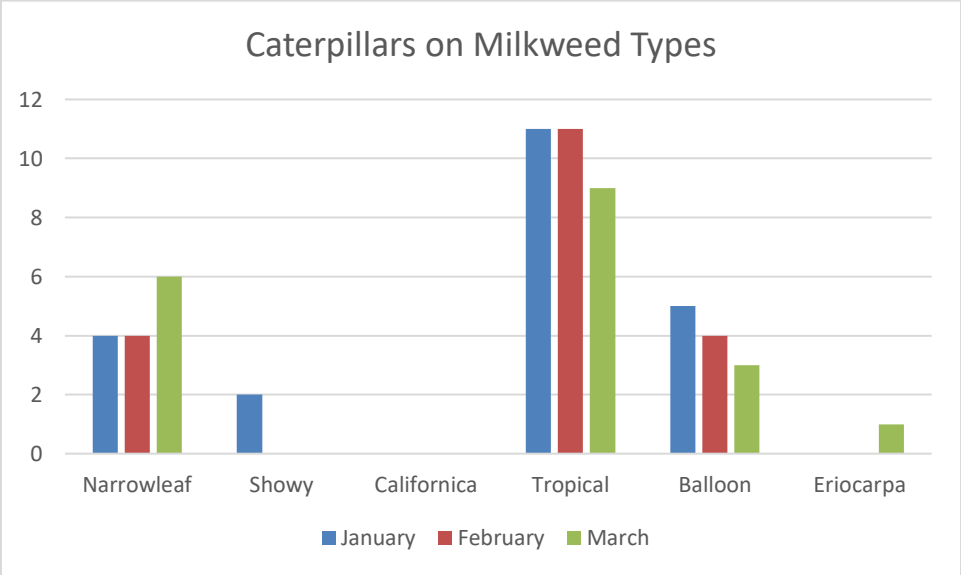
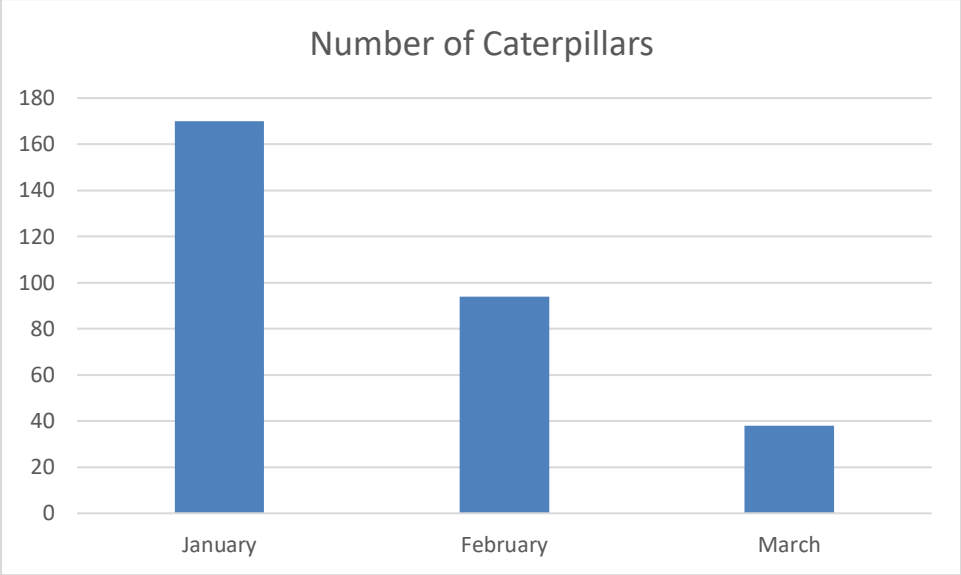
allysum, aster, verbena, loropetalum, Tagetes, Westringia, lavender, manzanita, choysia, geum, lantana, ceanothus, Pride of Madeira, CA poppies, Vinca, wallflower, verbena

## Number of Eggs

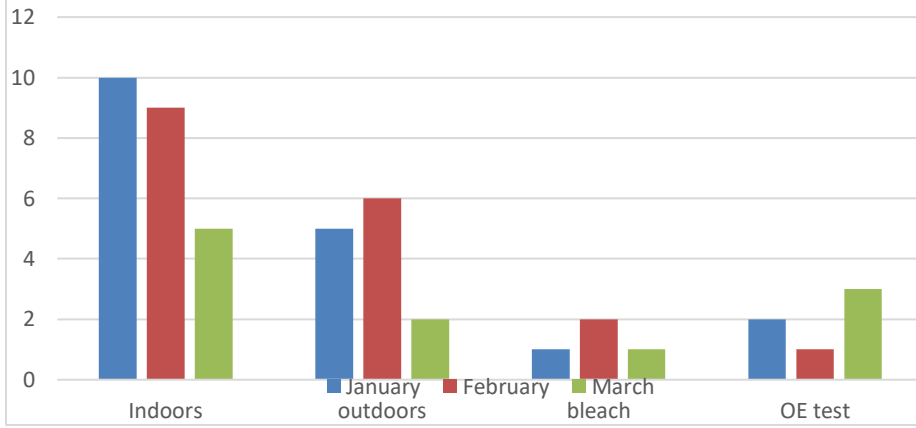


Note: 400 eggs were seen at 1 site in Sunnyvale. Most of those eggs are being brought in for indoor rearing. The rest were primarily Oakland and Berkeley and a few in Albany and San Rafael.

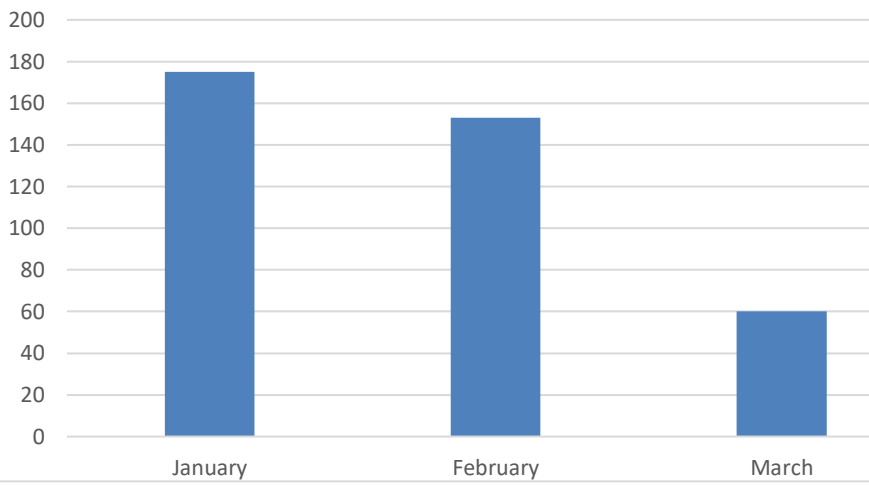




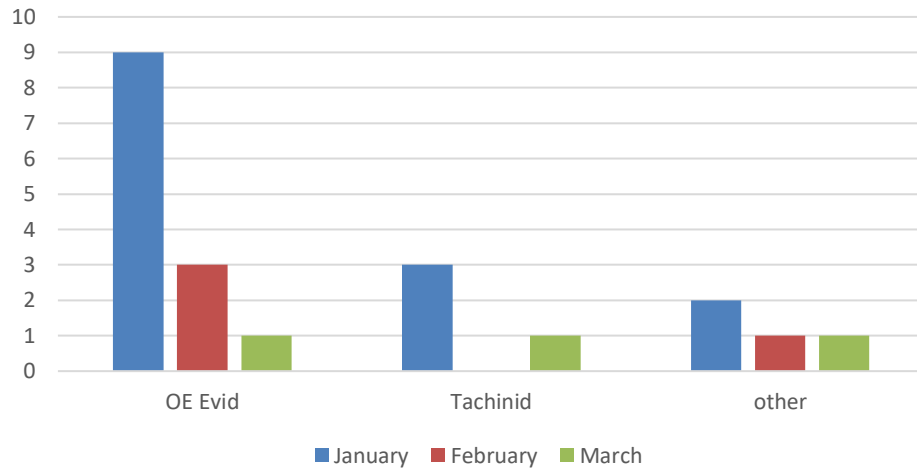
### Rearing Practices



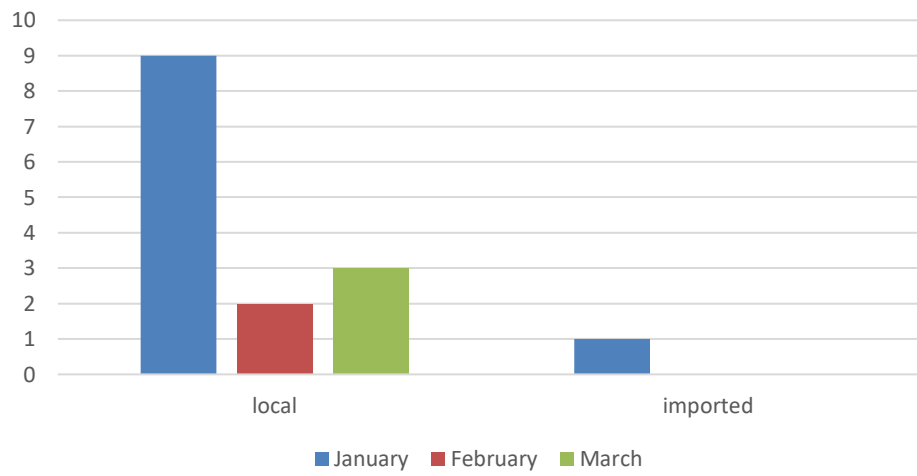
### Reared Butterflies Released

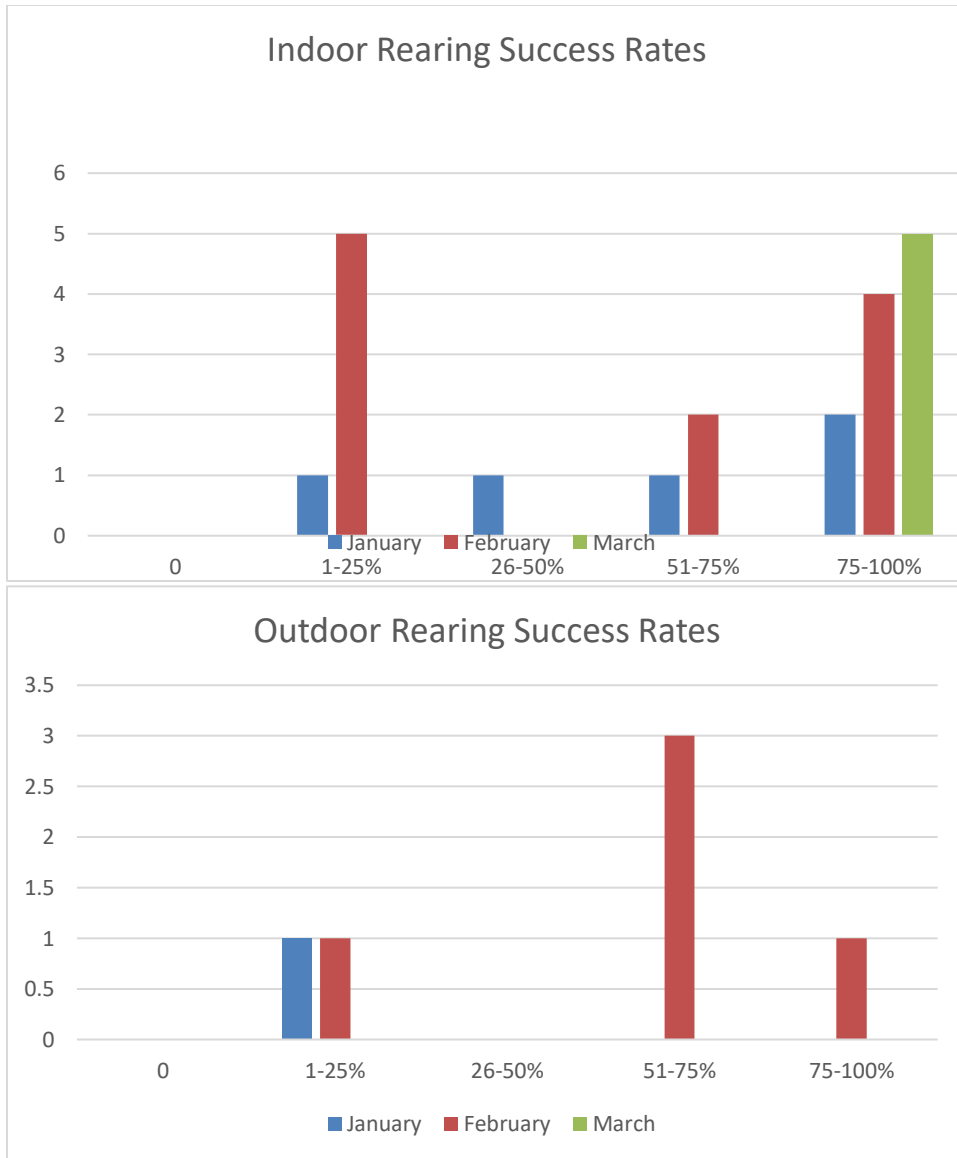


### Disease and Predation



### Source of Eggs and Caterpillars





**General comments:**

**January/February**

- Several reports of caterpillars/chrysalides not thriving unless taken indoors
- OE in less than 10% of reared monarchs. Chrysalides left outdoors in their natural state were not successful in eclosing - about 10. Those had been outdoors for 30 - 60 days with temps no lower than 36 at night. Chrysalides indoors 90% eclosure rate. Swan and balloon milkweed have remained fairly healthy to rear indoors using cuttings. Females prefer to deposit eggs on lower leaves of plants in many cases. Most release adults do not stay in the area but females stay for several days laying.
- The first week of December 2020, 30 monarch eggs were laid on some remaining wide leaf milkweed in my yard. Feed them indoors on previously refrigerated wide leaf syriaca milkweed leaves. Released 27 adults 4 weeks later in December at the San Leandro Marina Gulf Course.

**March**

- Many comments on milkweed just emerging



- Monarchs overwinter at St. Peter's Chapel on Mare island. Last year I also saw 2-3 there in the winter. About 10 years ago I saw hundreds there.
- Caterpillars are developing more rapidly than I remember, all very healthy, about the same numbers or more than last year at this time according to my records. Narrow leaf milkweed is just starting to leaf out and won't be ready for weeks. Family Jewels is available and Tweedia Careulia - blue milkweed and one very small eriocarpa just coming back. Speciosa has not sprouted yet.
- Paper wasps are out in full force so larva are non existent due to predation. Starting to explore trapping wasps with various baits and eliminating all nests. There are females laying eggs every day but I can't collect more due to limited milkweed supply.