

## For Monarchs, not all milkweeds are equal Non-Native and Native Milkweed

The monarch is an obligate feeder on milkweed. Individuals always lay their eggs on a milkweed plant and the larvae only develop on various species of milkweed.

There are two categories of milkweed plants:

#### Non-Native Milkweed Native Milkweed



Tropical Milkweed (Asclepias curassavica)

The most readily available milkweed variety for home ornamental use has been the Non-Native Mexican or Tropical Milkweed (Asclepias curassavica)

However, it may not be best for Monarchs



(Asclepias verticillata)



Antelopehorns (Asclepias asperula)



(Asclepias incarnata)



Butterfly milkweed (Asclepias tuberosa)

An amazing resource to see where different milkweed varieties grow in our area: https://tpwd.texas.gov/publications/pwdpubs/media/pwd rp w7000 1803.pdf

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#### Cardenolides



Several milkweed varieties produce toxic chemicals called cardenolides, which are toxic to Monarch predators.

So Monarchs lay their eggs on these milkweed plants to protect their caterpillar offspring from being eaten.



Warmer temperatures can increase the cardenolide levels in **Tropical Milkweed** (Asclepias curassavica) to the point it can poison the catepillars, delaying growth and leading to butterflies with stunted forewing length.





Warmer temperatures don't radically change cardenolide levels in Native Milkweed (Asclepias incarnata) because it naturally produces fewer toxic chemicals than Tropical Milkweed.

**Native Milkweed is better for Monarchs!** 

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### Protozoan parasite

Ophryocystis elektroscirrha (OE) is a harmful protozoan parasite that often travels with Monarchs on their migration



Because **Tropical Milkweed** will retain its leaves longer, it exposes Monarch larvae to Ophryocystis elektroscirrha (OE) for longer periods of time.





Tip: If you have Tropical Milkweed, cut it down to the ground Because Native Milkweed leaves die back after blooming, and the parasites die with them, the Monarch's exposure is reduced.



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### Migration Interruption

The Monarchs that migrate through Texas overwinter in the same 11 to 12 mountain areas in the States of Mexico and Michoacan from October to late March.



Because **Tropical Milkweed**has a longer life cycle, it may
be harmful to the Monarch's
traditional migration patterns.





It is believed that the long migration effectively weeds out weak or diseased individuals, while at the same time removing the population temporarily from local pathogens.

Tropical Milkweed encourages

Monarchs to stay in one spot
and is likely to form less-healthy
(non-migratory) populations.



Native Milkweed is better for Monarchs!

Do you have questions about your home landscape and plants?

Contact the Fort Bend Master Gardener Help Desk

Email:

FortBendmg@ag.tamu.edu

Phone:

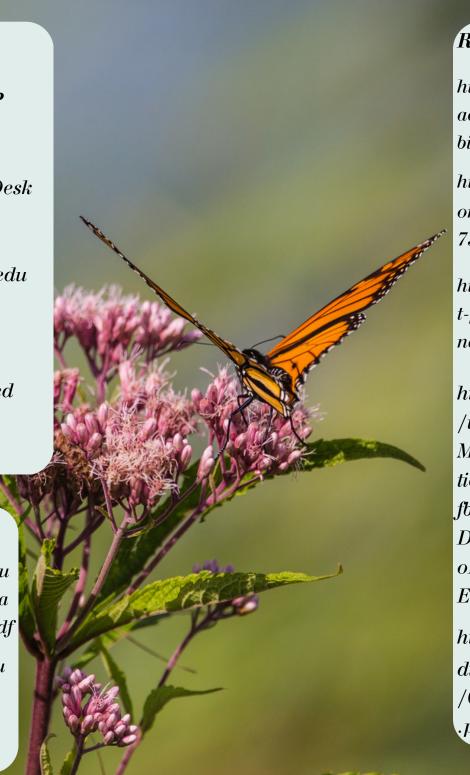
281-341-7068

The Help Desk is manned Monday thru Friday, 9am-Noon

#### References:

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