

# Nature's Notebook Phenophase Photo Guide

## *Asclepias angustifolia* Arizona milkweed



### Why Observe?

This species is part of the project Desert Refuge: Monarchs and Milkweeds in Arizona, which is a collaboration between the USA-NPN and Desert Botanical Garden. This project seeks to better understand the winter breeding behavior of monarchs and use of milkweed across the state. Your observations of leafing and flowering of *Asclepias angustifolia* will help answer the question of what life cycle stages do milkweeds experience during winter months and how might this affect monarchs.

This project is funded by a grant from Monarch Joint Venture and U.S. Forest Service International Programs.

### Tips for Identification

This species is found only in Arizona. The branches are thin, the leaves are narrow, and the small white flowers with purple or pink tinge occur in umbel inflorescences and are approximately 1/8 in wide and long. This species is found in riparian woodlands, mountains, and canyons. (Source: Monarchwatch.org)

Be aware there is variation from individual to individual within a species, so your plant may not look exactly like the one pictured. If you are uncertain whether or not a phenophase is occurring, report a “?” for its status until it becomes clear what you are observing after subsequent visits.



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**Image Needed**

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**Initial growth**

New growth of the plant is visible after a period of no growth (winter or drought), either from above-ground buds with green tips, or new green or white shoots breaking through the soil surface. Growth is considered "initial" on each bud or shoot until the first leaf has fully unfolded. For seedlings, "initial" growth includes the presence of the one or two small, round or elongated leaves (cotyledons) before the first true leaf has unfolded.



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**Young leaves**

One or more young leaves are visible on the plant. A leaf is considered "young" before it has reached full size or turned the darker green color or tougher texture of mature leaves on the plant. Do not include fully dried or dead leaves.



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**Leaves**

One or more live, fully unfolded leaves are visible on the plant. For seedlings, consider only true leaves and do not count the one or two small, round or elongated leaves (cotyledons) that are found on the stem almost immediately after the seedling germinates. Do not include fully dried or dead leaves.



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**Flowers or flower buds**

One or more fresh open or unopened flowers or flower buds are visible on the plant. Include flower buds or inflorescences that are swelling or expanding, but do not include those that are tightly closed and not actively growing (dormant). Also do not include wilted or dried flowers.



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**Open flowers**

One or more open, fresh flowers are visible on the plant. Flowers are considered "open" when the reproductive parts (male stamens or female pistils) are visible between or within unfolded or open flower parts (petals, floral tubes or sepals). Do not include wilted or dried flowers.



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**Fruits**

One or more fruits are visible on the plant. For *Asclepias angustifolia*, the fruit is narrow and pod-like and changes from green to tan or brown and splits open to expose seeds with fluff. Do not include empty fruits that have already dropped all of their seeds.



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**Ripe fruits**

One or more ripe fruits are visible on the plant. For *Asclepias angustifolia*, a fruit is considered ripe when it has turned tan or brown and has split open to expose seeds with fluff. Do not include empty fruits that have already dropped all of their seeds.

**Phenophases not pictured:** Recent fruit or seed drop