

**2013 Pima Master Gardener Training Course**  
**LoriAnne Barnett, USA-NPN Education Coordinator**  
**Phenology Class Outline – January 29, 2013**

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## **I. Introduction**

## **II. Climate and Life Zones**

- A. Climate: USDA planting zones, Sunset planting guide
  - *Why is climate important to Master Gardeners?*
  - *Why is weather important to Master Gardeners?*
- B. Phenology application
  - ✓ Life-cycles
  - ✓ Seasonal changes and planting guides

## **III. Species and Diversity**

- A. Biology and Ecology – Sunshine, light energy, systems, oh my!
  - *What does Biology and Ecology have to do with MGs?*
- B. Life-cycles of plants and animals
- C. Botany Review – You are experts!
  - Plant, flower, fruit and seed structure
- D. “Phenophases” - measurable, reoccurring, observable stages in an animal or plant life-cycles
- E. Phenology Application
  - ✓ Vegetative development
  - ✓ Plant physiology

## **IV. Phenology**

- A. If you've already done **any** gardening, you are a phenologist!
- B. USA National Phenology Network and *Nature's Notebook*

## **V. Master Gardeners and Phenology**

- A. Landscape plant maintenance – Healthy and balanced gardens are a must!
  - ✓ Phenology Application
- B. Integrated Pest Management (IPM) – Long-term prevention using a mix of techniques, including phenological indicators!
  - ✓ Phenology Application
- C. Desert landscape plants – Knowing what is appropriate for our zone, until it changes!
  - ✓ Phenology Application
- D. Home & Landscape Water Use – Study the effects of water use in the garden vs. naturally occurring plants
  - ✓ Phenology Application
- E. Propagation – Plants are replicated for monitoring across the US to determine phenology, based strictly on environmental conditions.

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- ✓ Phenology application
- F. Vegetable and Fruit Trees – What’s in your garden?
  - ✓ Phenology Application
- G. *Nature’s Notebook* in your Garden!

**VI. Future Applications**

- A. “Hypotheses” for Gardeners – What do **YOU** want to know?
- B. Class assignments for **course credit**: Data collection for the remainder of the MG session. Phenology will return on **April 23<sup>rd</sup>**, so have your data entered and be ready to discuss what we found in the garden!