

Citizen Science Phenology Monitoring

San Francisco Bay Wildlife Society











Get Involved as a Citizen Scientist!

At the DESFBNWR EEC, we are currently monitoring two individuals each of four species of plants using the protocols established by the California Phenology Project (CPP) and recording the data online via USA National Phenology Network's (USA-NPN) Nature's Notebook.

Join us and follow along to learn how to monitor the California wildrose (Rosa californica)!

Species:Rosa californica Common Name: California wildrose	
Do you see?	Check when data entered online:
Breaking leaf buds	y n ?
Leaves	y n ?
Increasing leaf size	y n ?
Colored leaves	y n ?
Falling leaves	y n ?
Flowers or flower buds	y n ?
Open flowers	y n ?
Fruits	y n ?
Ripe fruits	y n ?
Recent fruit or seed drop	y n ?



of breaking leaf buds



of flowers and flower buds



% of canopy full with leaves

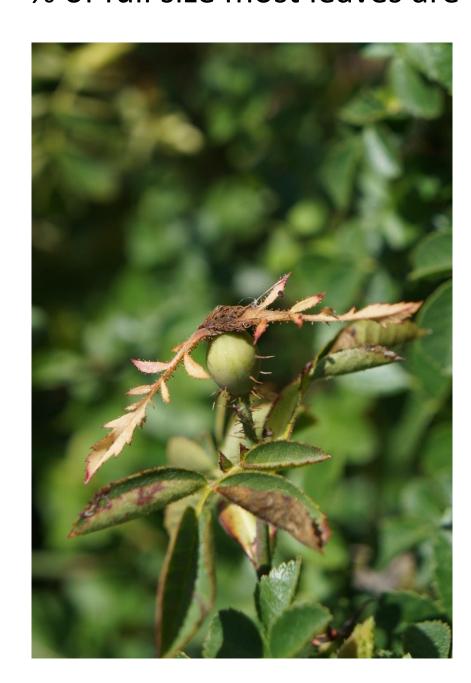


% of flowers open



Monitoring is fun and easy! Simply observe and record the...

% of full size most leaves are



of fruits



% of leaves colored and presence of fallen leaves



% of fruit ripe and # of fallen fruit

What is Phenology?

- Phenology is the study of the timing of plant and animal life cycle stages (e.g., leafing and flowering, emergence of insects, and migration of birds).
- It is also the study of these recurring plant and animal life cycle stages (i.e., phenophases) in response to weather and climate.
- From the Greek word phaino, meaning to show or appear.

source: USA National Phenology Network, www.usa.npn.org

"Phenology... is perhaps the simplest process in which to track changes in the ecology of species in response to climate change." - IPCC 2007