NWRS Inventory and Monitoring Initiative: Using Phenology Data to Inform Biological Planning

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- I&M phenology goals
- Citizen science as part of the solution
- How USA-NPN is helping us meet these goals
- Potential future collaboration
I&M Phenology Goals

Collection and analysis of phenological data provides information on potential changes in key biological events and the resulting impact on ecosystem dynamics.

Ensure that phenological monitoring conducted on refuge land is scientifically credible and will be used to inform management questions at multiple spatial and temporal scales.
Why aren’t we collecting more phenology data?

How do we manage the data?
U.S. FWS Phenology Network

- Established web-page for information dissemination, data storage and access
- Ready access to Nature’s Notebook
- Ready access to phenology protocols
- Learning from and collaborating with CPP and U.S. NPS phenology efforts

Valle de Oro NWR Partners with USGS & USA National Phenology Network Pilot Project

https://www.usanpn.org/fws/
Well documented, credible, interdisciplinary scientific information to inform biological planning at multiple scales