USFWS Phenology Network A collaboration between the USFWS and the USA-NPN

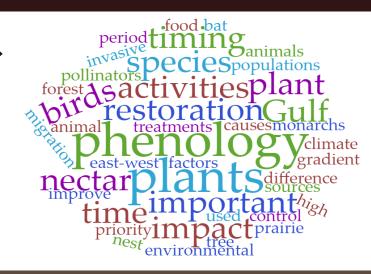
State of the Partnership 2019: Results from 2017-2019 Evaluation

What questions are Refuges seeking to answer with their phenology data?



Most frequently asked question:

Is there an impact of climate change on plants and animals?



What is the purpose of refuge phenology programs?

67%

Of refuges consulted with their Refuge Biologist before selecting species to observe

Of refuges plan to use their data to inform management

Both science/ 33% management and education/ outreach

22% Science/management

22% Education/outreach

What progress have refuges made toward meeting their goals?



Weekly phenology observations



Volunteer trainings



Recruitment of volunteers



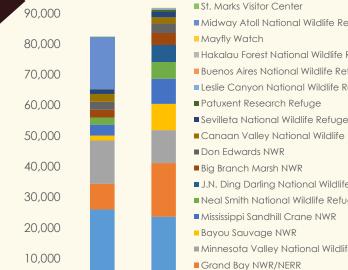
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Observations collected on refuges



2017

2018

0

- - Midway Atoll National Wildlife Refuge
 - Mayfly Watch
 - Hakalau Forest National Wildlife Refuge
 - Buenos Aires National Wildlife Refuge
 - Leslie Canyon National Wildlife Refuge

 - Patuxent Research Refuge
 - Canaan Valley National Wildlife Refuge
 - Don Edwards NWR
 - Big Branch Marsh NWR
 - J.N. Ding Darling National Wildlife Refuge
 - Neal Smith National Wildlife Refuge
- Mississippi Sandhill Crane NWR
- Bayou Sauvage NWR
- Minnesota Valley National Wildlife Refuge
- Grand Bay NWR/NERR
- Valle de Oro National Wildlife Refuge