

Violets to support Regal Fritillary Butterflies on PRRIP land



Photo: Craig Davis, OK State

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Other Species of Concern - Pollinators

First Increment AMP Management Objective

4) Within overall objectives 1-3 (objectives for target species), provide benefits to non-target listed species and non-listed species of concern and reduce the likelihood of future listing


- a) Increase availability of habitats for these species (Land Plan “other species of concern”) along the central Platte River.
- b) Indicator is species occurrence

Land Management Plans


➤ ***Goal 3 – Provide benefits to other species of concern without compromising ability to accomplish target species goals and objectives***

- ***Objective 3*** – Evaluate habitat protection for other species of concern as need or opportunity is brought forward by USFWS or NGPC.
 - **Strategy** – The USFWS and NGPC may provide guidance on species of concern that could be present and benefit from management measures. Upon request by the USFWS and NGPC, the Program will survey specified tracts to determine presence of those species. The Program will then consult with the USFWS and NGPC to determine appropriate measures for protecting, preserving, and enhancing populations of those species while accomplishing Program goals.
 - **Responsibilities** – USFWS and NGPC are responsible for bringing forward species of concern that need to be addressed in the planning process. Program staff will be responsible for habitat protection planning, with technical assistance from these agencies.

Violet species and distribution



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Viola missouriensis Greene *Viola sororia* var. *missouriensis*
Missouri violet




General Information	
Symbol:	VIMI3
Group:	Dicot
Duration:	Annual Perennial
Growth Habit:	Forb/herb
Native Status:	L48 N





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Scientific Name

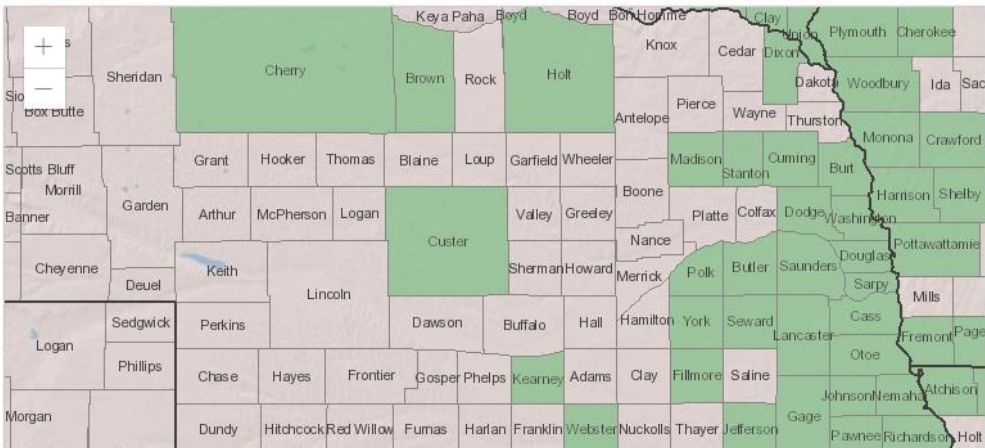
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Viola pedatifida G. Don
prairie violet



General Information	
Symbol:	VIPE2
Group:	Dicot
Duration:	Perennial
Growth Habit:	Forb/herb
Native Status:	CAN N L48 N

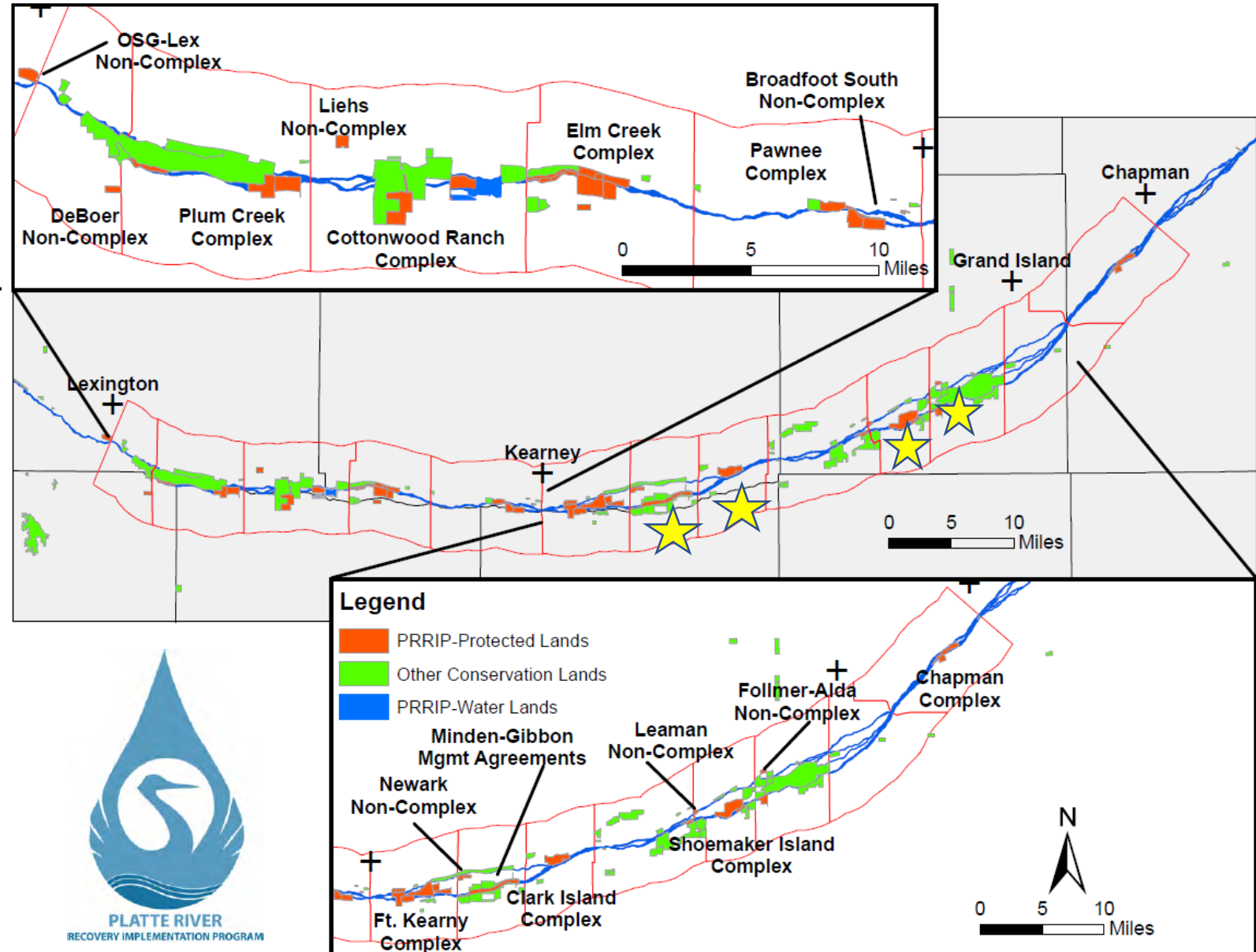


Regal Fritillary Distribution

- All NE counties except 1 in species distribution
 - Natural Heritage Program sightings in USDA Forest Service Report

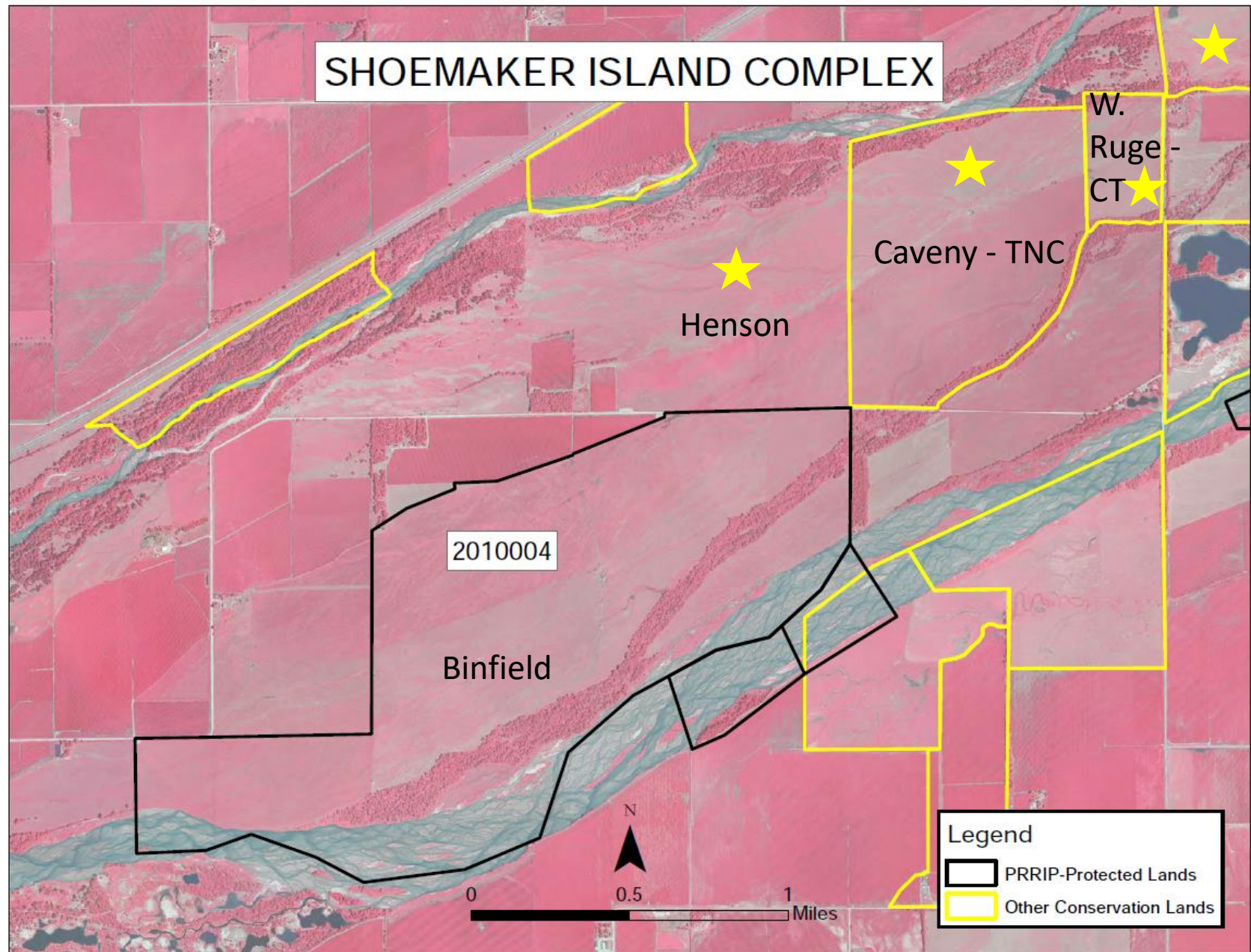
★ AHR registers

- Mormon Island/Wildrose Complex
- Shoemaker Island Complex
- Clark Island Complex
- Rowe

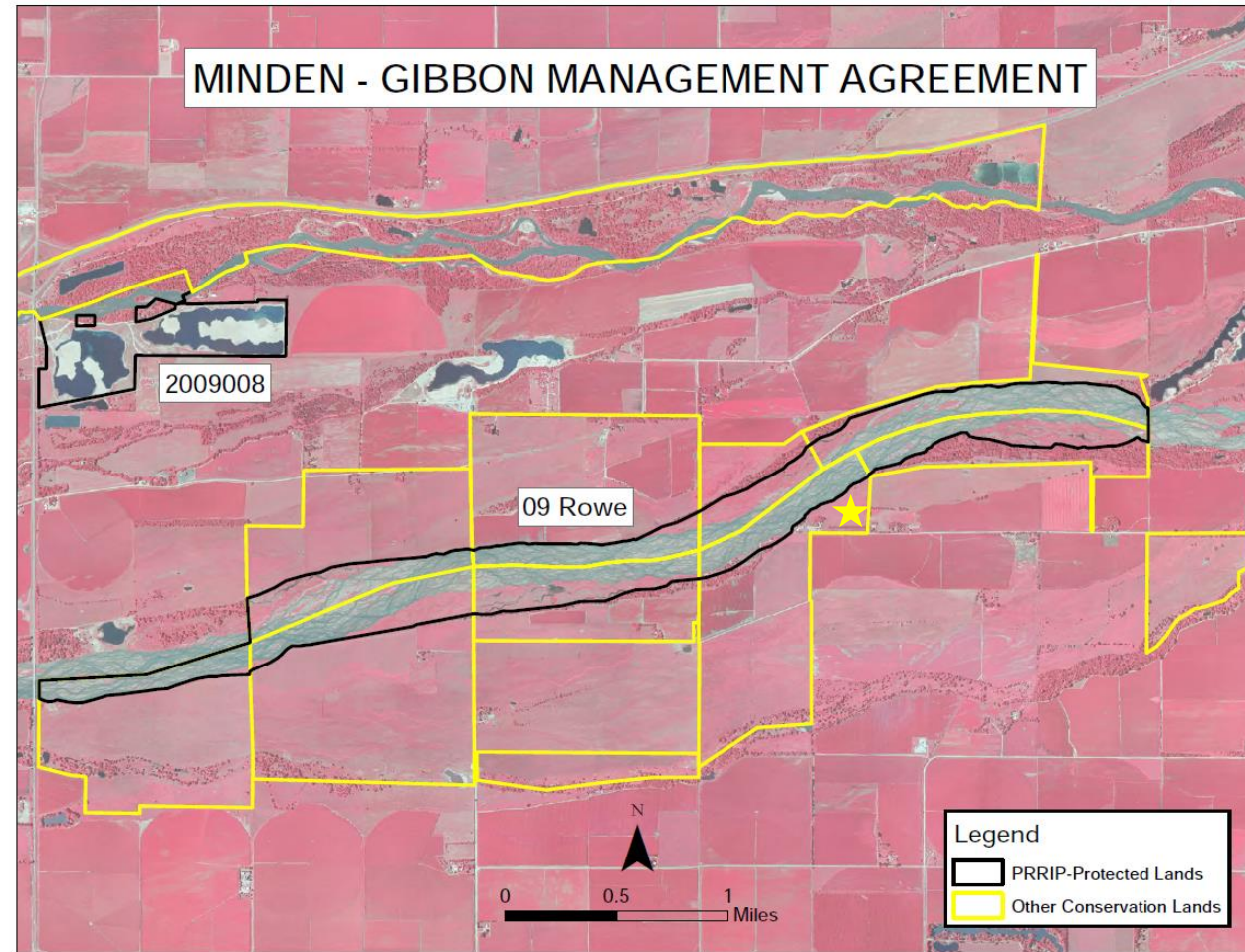
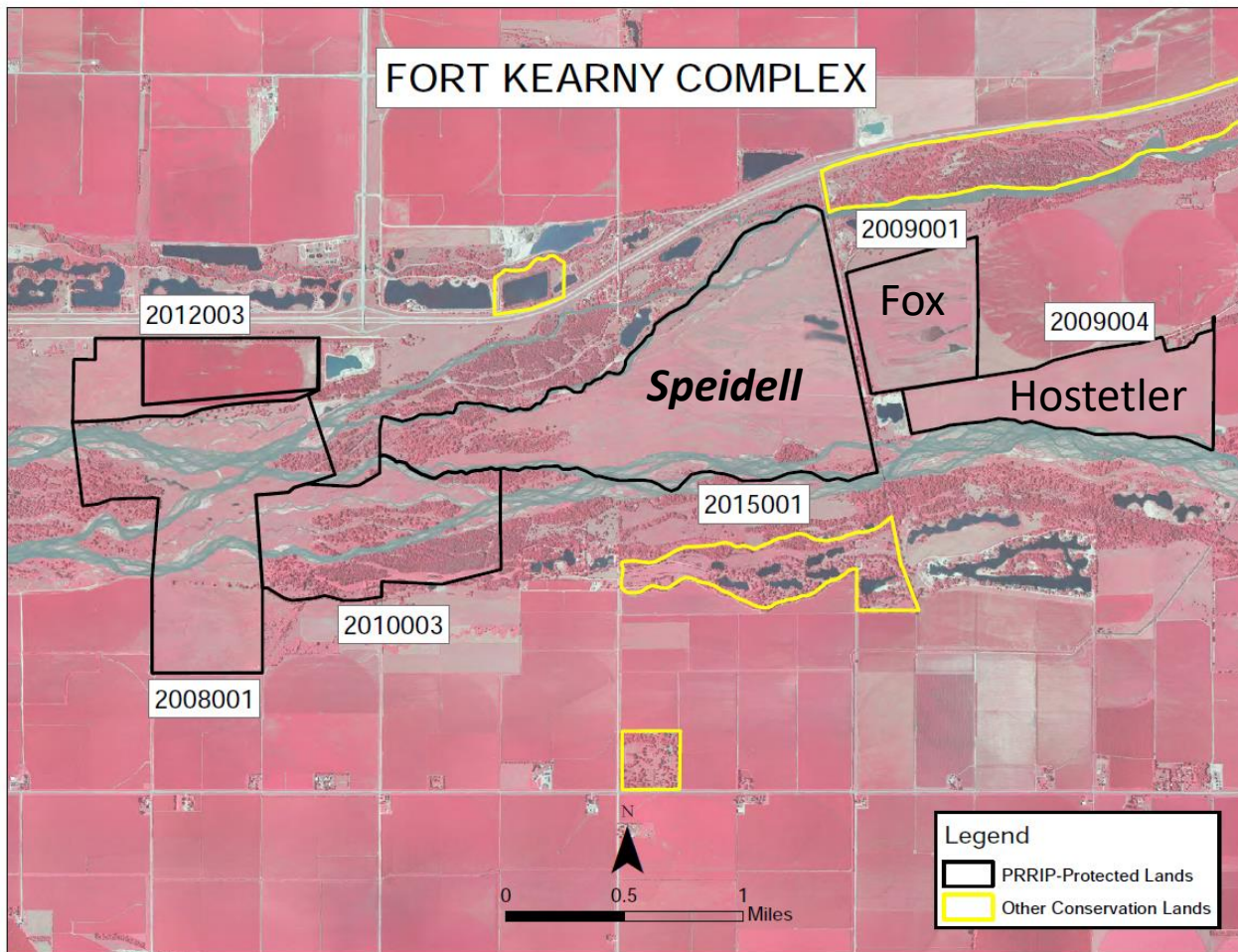


Binfield

★ CT Registers



Speidell



★ Rowe Sanctuary registers

Violet / Regal Integration into Land Management

- Violets are resilient, hardy species once established
- Fire resilient – 4-year burn schedule
 - Avoid May burns – larva procure violets
 - Rotate burn areas within larger tract to provide refuge
- Moderate stocking ok
- Targeted herbicide application ok
- Haying ok
 - Avoid July – Aug when females use thatch for diapause
 - Rotate hayed areas within a larger tract to provide refuge
- Sun or shade



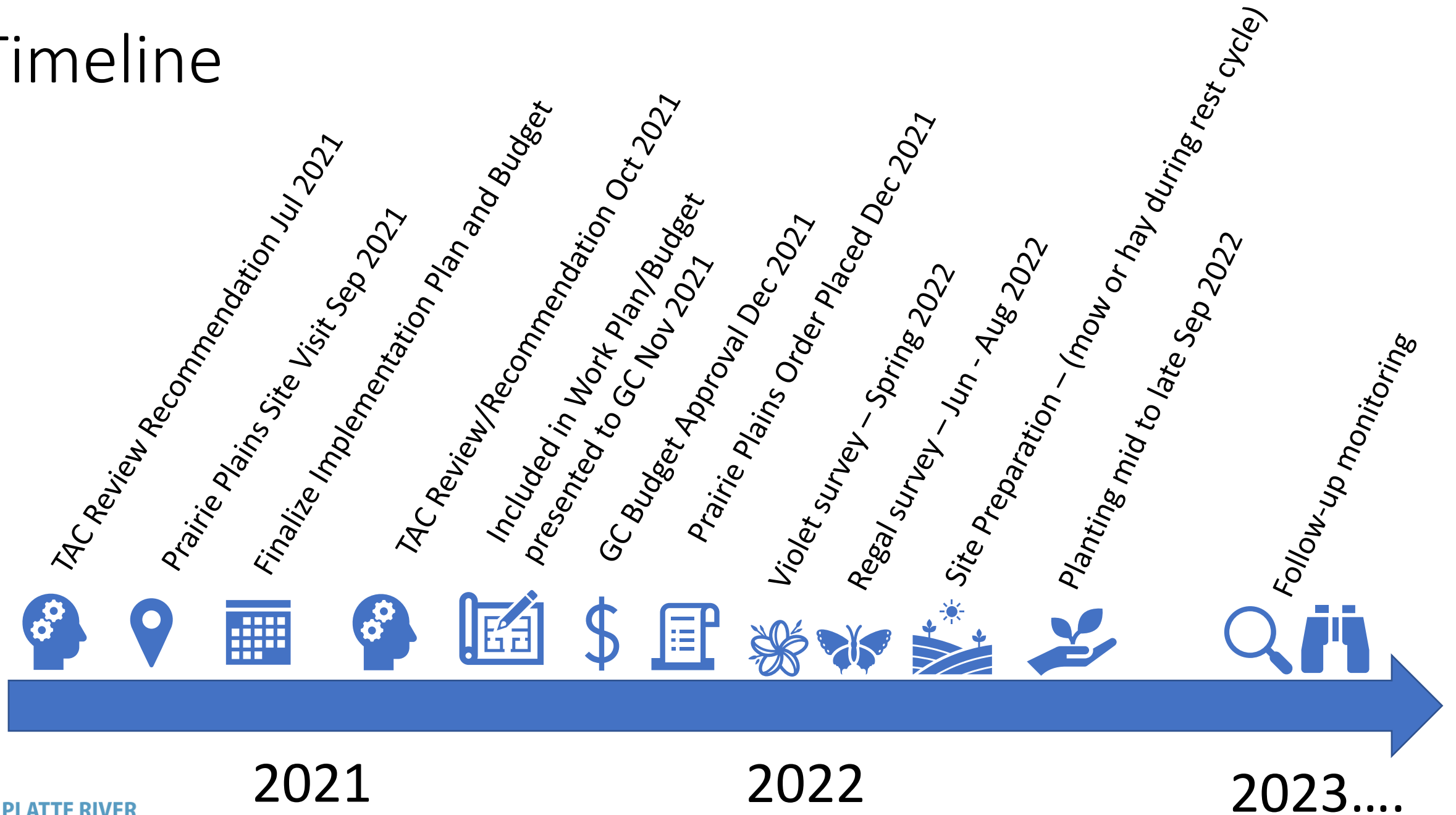
Violet availability

- Prairie Plains greenhouse production of *Viola sororia* var. *missouriensis*
- Order Nov-Dec of 2021 for Fall of 2022 planting
- 1000 plugs available
- Cost per plug = \$4
- Cost for installation = \$5
- Prairie Plains site inspection



USDA-NRCS PLANTS Database /
Britton, N.L., and A. Brown, 1913.

Timeline



Monitoring of Success

- Initial violet and Regal surveys
- Violet survival
- Violet spread
- Regal recruitment to land tract
- Regal use of violets



TAC Discussion

- Relevance to PRRIP objectives
- Selected PRRIP properties
- Implementation plan
- Monitoring of success
- Timeline

