

Developing Guidance for Managing Invasive Aquatic Vegetation in Tidal Wetland Sites

Gina Darin*, California Department of Water Resources

Elizabeth Brusati, Delta Stewardship Council

Rachel Wigginton, Sacramento-San Joaquin Delta Conservancy

Gina.Darin@water.ca.gov

Developed by DIISC

- The **Delta Interagency Invasive Species Coordination (DIISC) Team** was formed in 2013 and provides a forum for interagency and cross-sectoral collaboration on invasive species in the Delta.
- Everyone is welcome at our quarterly virtual meetings.



Invasive Aquatic Plants in the Delta and Suisun Marsh

○ Floating Aquatic Vegetation

- Water hyacinth (*Eichhornia crassipes*)
- South American spongeplant (*Limnobium laevigatum*)
- Water primrose (*Ludwigia* spp.)
- Alligatorweed (*Alternanthera philoxeroides*)

○ Submersed Aquatic Vegetation

- Brazilian waterweed (*Egeria densa*)
- Curlyleaf pondweed (*Potamogeton crispus*)
- Eurasian watermilfoil (*Myriophyllum spicatum*)
- Ribbon weed (*Vallisneria australis*)
- Fanwort (*Cabomba caroliniana*)

○ Emergent Aquatic Vegetation

- Common reed (*Phragmites australis*)
- Giant reed (*Arundo donax*)
- Yellow flag iris (*Iris pseudacorus*)



Why this IAV Guide?

- The impacts of IAV make it a particular concern for managers of tidal wetland habitat, especially restoration sites.
- Restoration sites experience invasion pressure once tidal reconnection occurs.
- Land managers and restoration practitioners identified a need for guidance on managing IAV, with information on “where to start”.
- The DIISC Team convened a working group to develop a “quick-start guide”.



Lookout Slough Tidal Habitat
Restoration completed 2024.
DWR

“Quick-start Guide for Managing Invasive Aquatic Vegetation (IAV) in Tidal Wetland Sites of the Sacramento-San Joaquin Delta and Suisun Marsh”

- Definitions
- Species
- Setting goals and objectives
- Prioritizing species and habitats
- Permitting and environmental compliance
- Control methods
 - Integrated Pest Management (IPM)
 - Comparison of methods including chemical, mechanical, biocontrol, cultural
- Process flowchart
- Preventing future establishment on the project site
- Budget planning
- Funding opportunities
- Management uncertainties
- Links to resources: Best Management Practice manuals, prioritization tools, etc.

Available in December!

<https://deltaconservancy.ca.gov/delta-inter-agency-invasive-species-team/>

