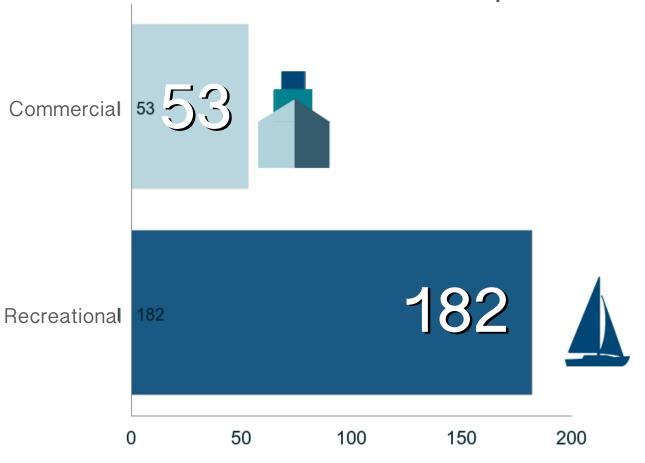
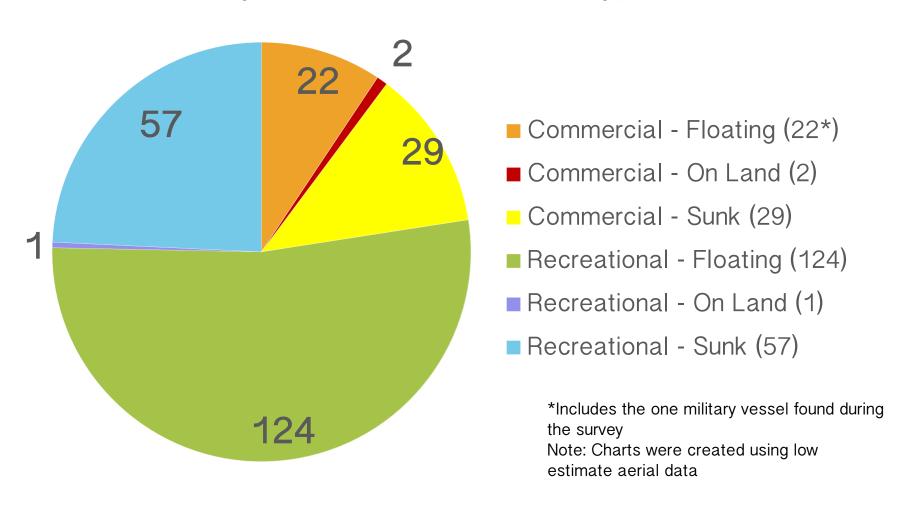


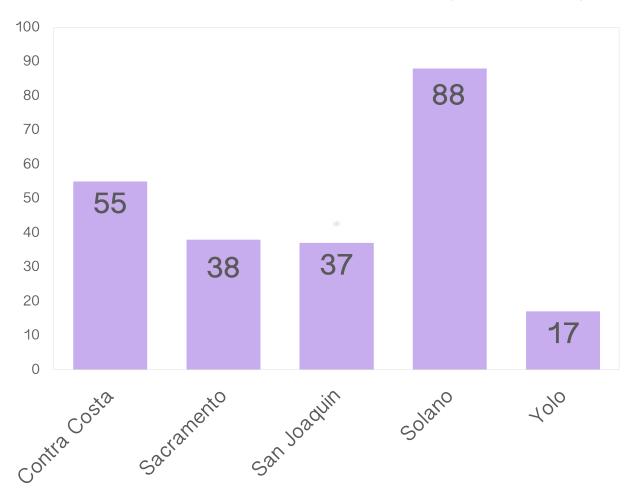
Types of Abandoned Vessels in the Sacramento-San Joaquin Delta



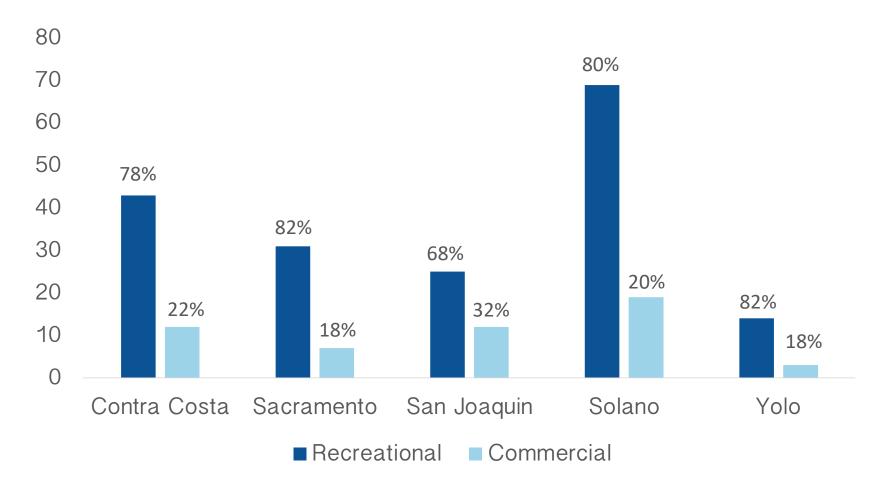
Survey Vessel Status and Type



Distribution of Vessels by County

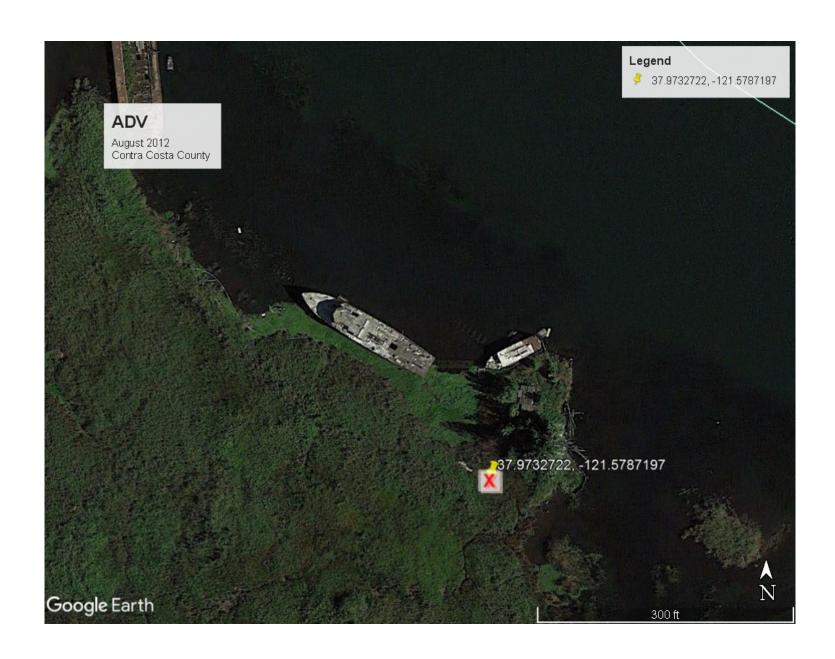


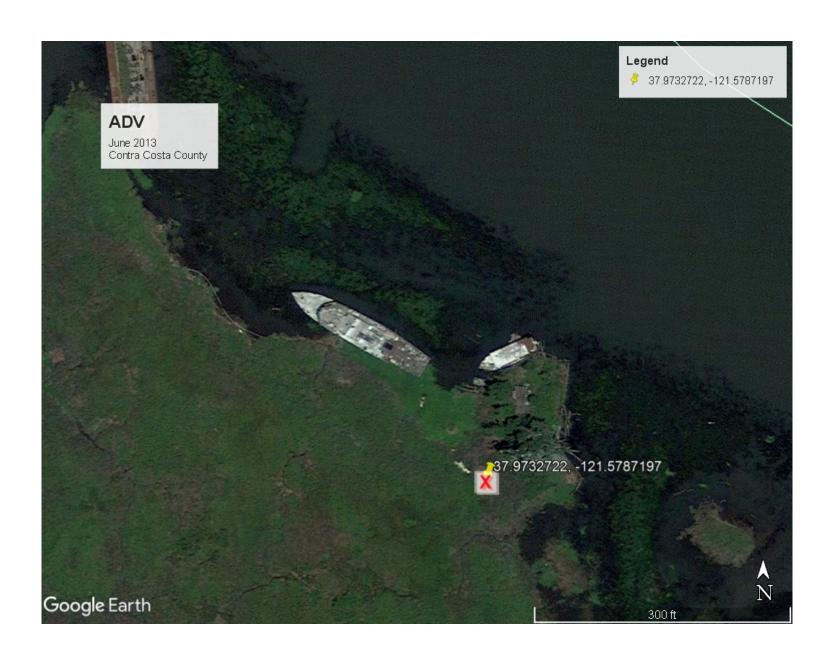
Distribution of Vessel Types Across Counties

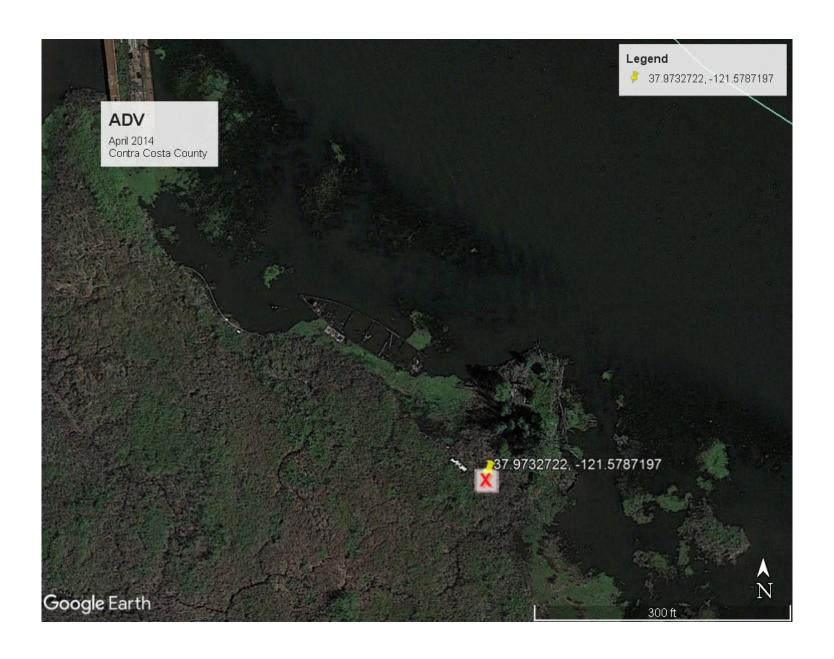


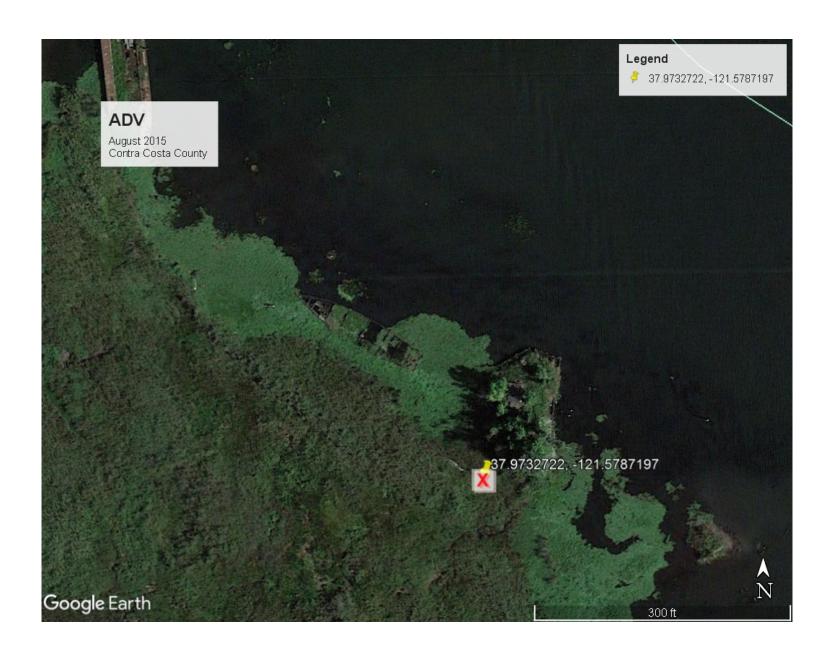


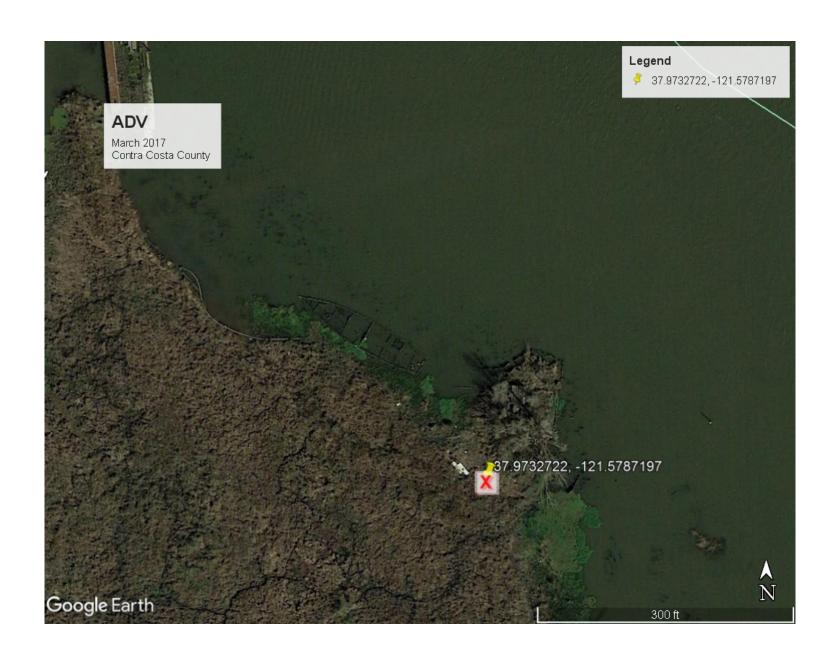












Cost Estimate

Factors that influence cost of removal

- Accessible by land vs. water
- Sunk/Floating
- Hull material
- HazMat
- Sheen
- Depth of water
- Distance to nearest landfill
- Height restrictions

Length Category	Number of vessels	Average cost of vessel removal by category	Cost for vessel category
Vessels under 25 ft.	181	\$4,000	\$724,000
Vessels between 25 ft. and 65 ft.	19	\$145,699	\$2,768,275.00
Vessels larger than 65 ft.	35	\$857,143	\$30,000,000.00
Total	235	\$142,520.32	\$33,492,275

Example Funding Scenarios

- If had a budget of \$6 million/year for 10 years, could remove all legacy vessels from Delta in about 7 years and have influx under control in about 9
- If ramped down to \$1.5 million after the first 10 years, could continue to keep influx under control for life of program (assuming influx reduces to 1 vessel a year after 5 years and stays constant)

Questions?



Thank you



Annie Daly anniehdaly@gmail.com