Aquatic Plant Management

East Meets West

Amy Ferriter
Today’s Talk

• History of different types of canal systems
• Parallels in aquatic plant management
  East vs. West
• New aquatic plant species in the West
• Importance of prevention
CENTRAL AND SOUTHERN FLORIDA PROJECT
FOR FLOOD CONTROL AND OTHER PURPOSES

PART I
AGRICULTURAL AND CONSERVATION AREAS
SUPPLEMENT 7 - DESIGN MEMORANDUM
PERMEABILITY INVESTIGATIONS
BY WELL-PUMPING TESTS
GRANGER

SUNNYSIDE, THE TOWN THAT IS DIFFERENT
And some of the ways in which it differs from the average Western Town.
DESSERT-RANCH
H.J. MERSDORF
PROP.
HAVE FAITH IN GOD
AND U.S. RECLAMATION
DESERt-RANCH
H.J. MERSDORF PROP.
HAVE FAITH IN GOD
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The “Storm of ’28”
An unnamed Hurricane killed over 2200 people in Southern Florida
The Storm of ’28 led to the construction of the Herbert Hoover Dike - Lake Okeechobee
Rock Reef Pass
Elevation 3 feet
Mr. and Mrs. Warren Clifford are the first settlers to establish a home in the Pasco Unit of the Columbia Basin Irrigation Project - 1948
East or West – Our Aquatic Plant Management Toolbox is the same
Aquatic Weed Control

- Mechanical
- Chemical
- Physical
- Biological
- PREVENTION
Modern Aquatic Weed Control
East or West – Our Aquatic Plant Management Toolbox is the same
Geothermal / Springs of Idaho

- Red: Geothermal
- Blue: Springs
- Yellow: Known Potential Geothermal
Hydrilla Locations in Idaho
Hydrilla – EDRR
Eichhornia crassipes

Water Hyacinth
Water Hyacinth – Emergency EDRR
Hagerman, Idaho
Water Hyacinth - mature
WATER HYACINTH $2.99
WATER WEED WORRIES
Water Lettuce, Bruneau River, Idaho
Western Challenges
Butomus umbellatus

Flowering Rush
• Buoyant rhizome fragments facilitate long distance dispersal in water.

• Ideal conditions for establishment are shallow, sparsely vegetated or un-vegetated silty substrates
Physical Control
- Dewatering
- Drawdowns
- Barriers
Physical Control
- Dewatering
- Drawdowns
- Barriers
Biocontrol
Flowering Rush – Native Range
Prospects for Biocontrol Flowering Rush

- Only species in genus, only genus in family Butomaceae
- → No closely related native relatives
- → Should increase chances to find a host specific biocontrol agent
- → Will reduce the number of plants that need to be tested
Field survey — the challenges

• Flowering rush is relatively rare in Europe and grows in sensitive, often protected habitats.
• Three of the potential agents (bugs) are redlisted or regarded as endangered.
• Necessitates permission in most cases to visit habitats and survey plant.
What was the Pathway to North America?
Aquatic Weed Control

• PREVENTION
• Mechanical
• Chemical
• Physical
• Biological
Thank you!

Amy Ferriter
CPS, Timberland
(509) 993-7490
Amy.Ferriter@cpsagu.com