

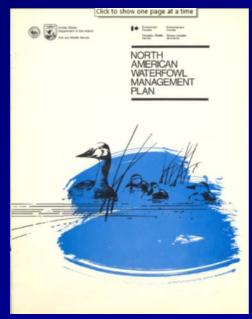
Gulf Coast Joint Venture: A Bird Habitat Conservation Partnership

Southwest Region All-Employee Meeting July 8, 2014 Barry Wilson, GCJV Coordinator

What are Migratory Bird Joint Ventures?

Originated in 1986 NAWMP

"Joint ventures should be encouraged as a means for governments and private organizations to cooperate in the planning, funding and implementation of projects to preserve or enhance waterfowl habitat."

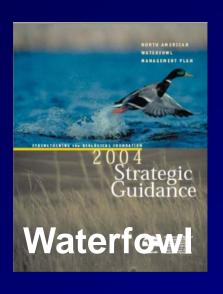


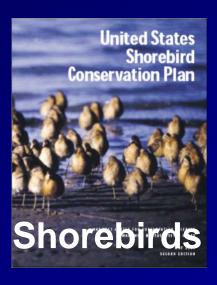
Defined in USFWS Manual (721 FW6)

"Self-directed partnerships of agencies, organizations, corporations, tribes, or individuals that have formally accepted the responsibility of implementing national or international bird conservation plans within a specific geographic area or for a specific taxonomic group"

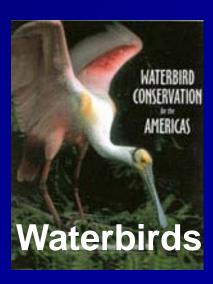
What are Migratory Bird Habitat Joint Ventures?

Regional partnerships to deliver national or international bird conservation plans







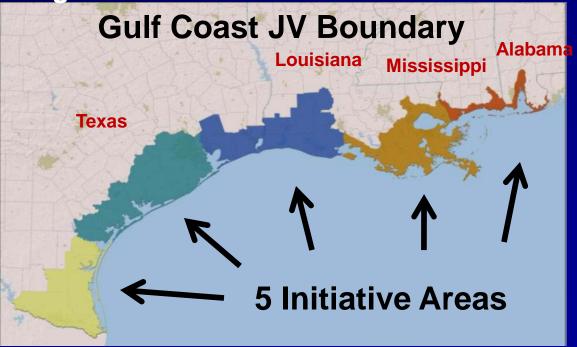


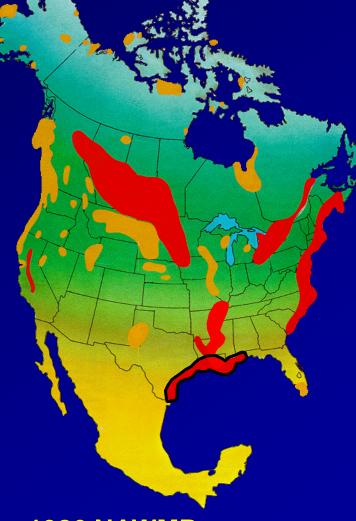
FWS JV Program vs JV Partnerships

- The role of the Service's JV <u>Program</u> is to facilitate and empower JV <u>Partnerships</u> to collaboratively ...
 - determine how much habitat (and when and where) is needed to support desired populations of birds,
 - find resources to deliver habitat toward objectives, and
 - track progress and refine objectives through focused applied science.

Gulf Coast Joint Venture

The GCJV is the regionally based, biologically driven, landscape oriented, volunteer partnership of private, state, and federal conservation organizations dedicated to delivery of habitat conservation important to priority bird species within the joint venture region.





1986 NAWMP:

Waterfowl habitat areas of major concern in Canada and the U.S.

Who owns the largest total acreage of private lands within the United States?

- a) Ted Turner
- b) The Conservation Fund
- c) ConocoPhillips
- d) The Nature Conservancy

Source: ConocoPhillips & 2014 Gulf of Mexico Summit

Gulf Coast Joint Venture

Management Board

State Agencies

Texas Parks & Wildlife Department
Louisiana Department of Wildlife & Fisheries
Louisiana Department of Natural Resources
Mississippi Department of Wildlife, Fisheries, & Parks
Alabama Department of Conservation & Natural Resources

Federal Agencies

U.S. Fish & Wildlife Service (Regions 2 & 4)

U.S.D.A. – N.R.C.S. (liaison)

U.S. Army Corps of Engineers

U.S. Geological Survey

NOAA-Fisheries (vacant)

Non-governmental
The Nature Conservancy
Ducks Unlimited, Inc.
Gulf Coast Bird Observatory

Other ConocoPhillips



Staff

Coordinator
Barry Wilson (FWS)

GIS/Remote Sensing Analysts

Mark Parr (FWS)

Nicholas Enwright (USGS)

Bird Conservation Specialist
Bill Vermillion (FWS)

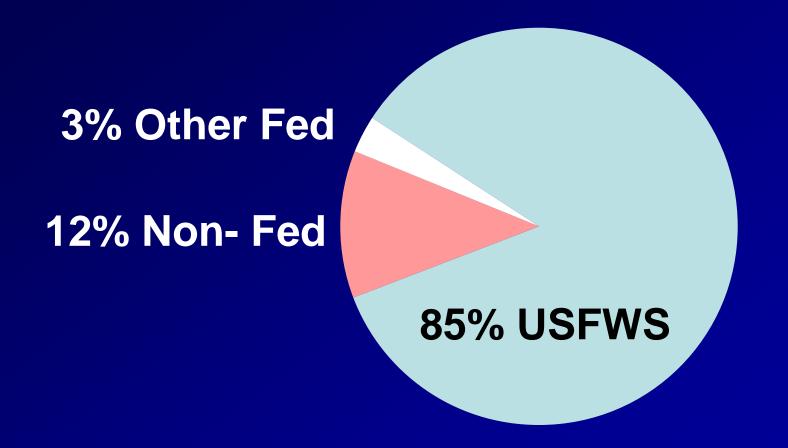
Monitoring Coordinator Steve DeMaso (FWS)

Biological Team Leader
Michael Brasher (DU)

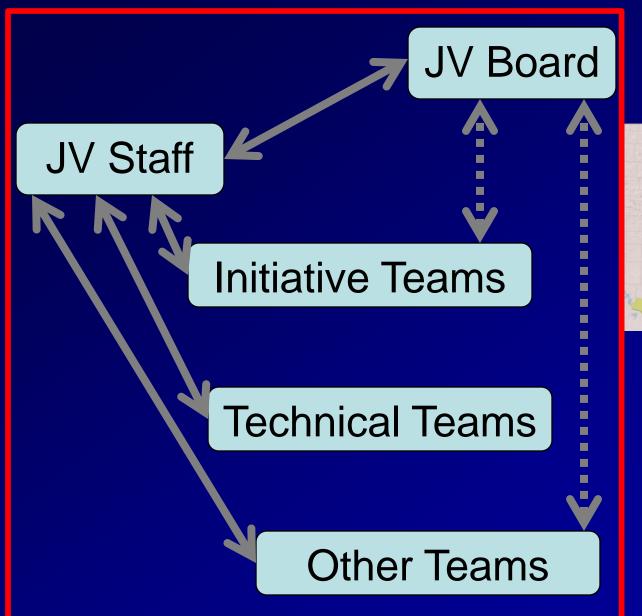
Habitat Delivery Specialist

Jon Hayes (TxPWD/ABC)

GCJV Administrative Funds FYs 2012/2013



Gulf Coast Joint Venture Partnership

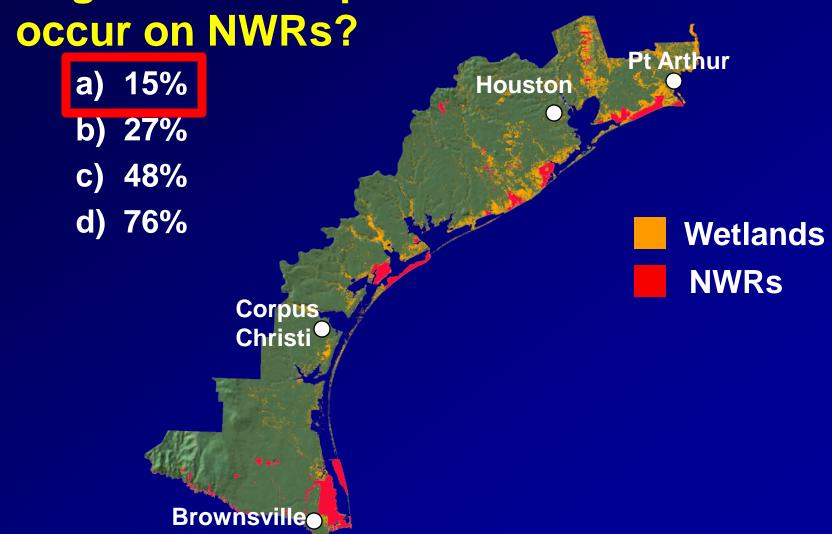




Tech Teams
GIS
Waterfowl
Shorebird
Landbird
Waterbird



What proportion of wetlands within the Region 2/Texas portion of the GCJV

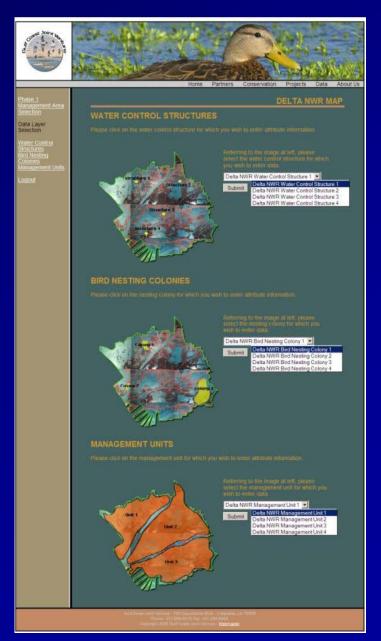


Source: 2005 C-CAP/NLCD Landcover

Managed Lands Geodatabase

Inventory of ...
 bird habitats
 management objectives
 management capabilities
 ... on all public lands

 Web-enabled questionnaire to populate database



GCJV Managed Lands
Geodatabase

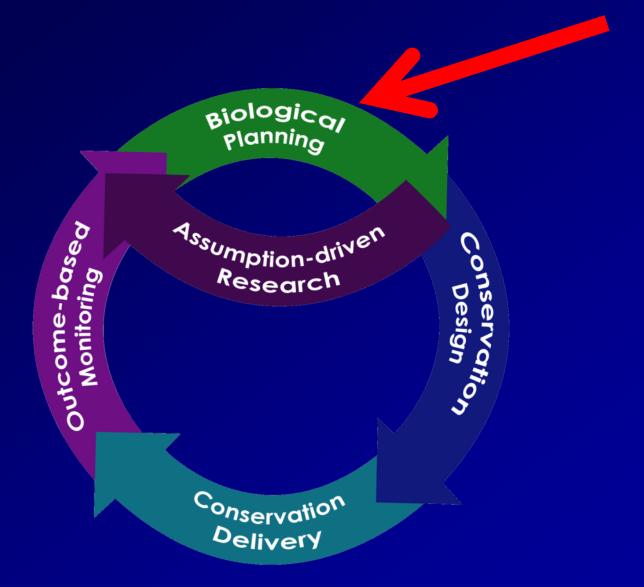
Texas NWRs with data entry complete provide an estimated 1.5M Duck-Energy-Days of waterfowl food from coastal marsh habitats (alone) toward GCJV/NAWMP waterfowl objectives.

NWR Units w/
Data Entry Complete

Other NWR Units

Strategic Habitat Conservation for Birds

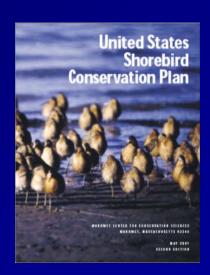




GCJV Shorebird Conservation Biological Planning

Continental Guidance

- Objective ~32 million shorebirds
- Gulf Coast is "... one of the most important regions in the U.S..."
- Priority species

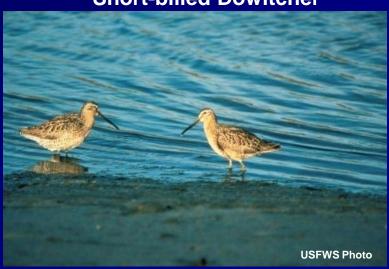


GCJV Shorebird Conservation: Biological Planning Priority Species Using Inland/Managed Habitat

Long-billed Curlew



Short-billed Dowitcher



Buff-breasted Sandpiper



Stilt Sandpiper



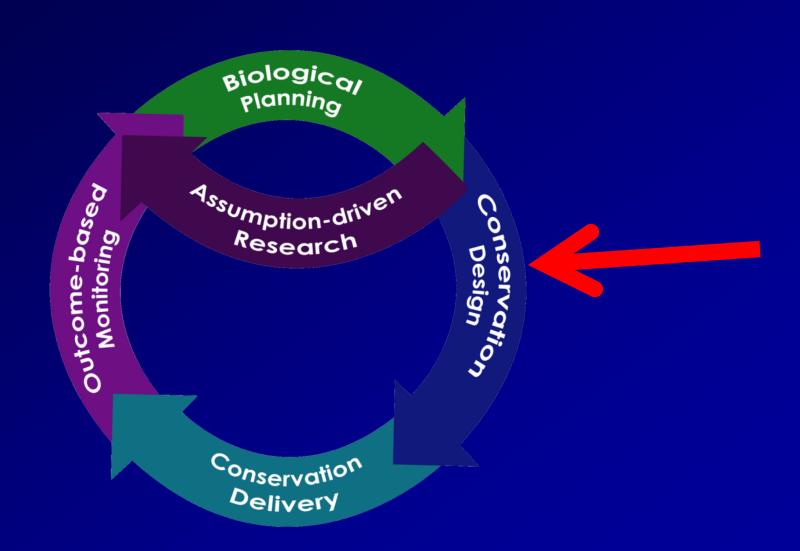
Western Sandpiper



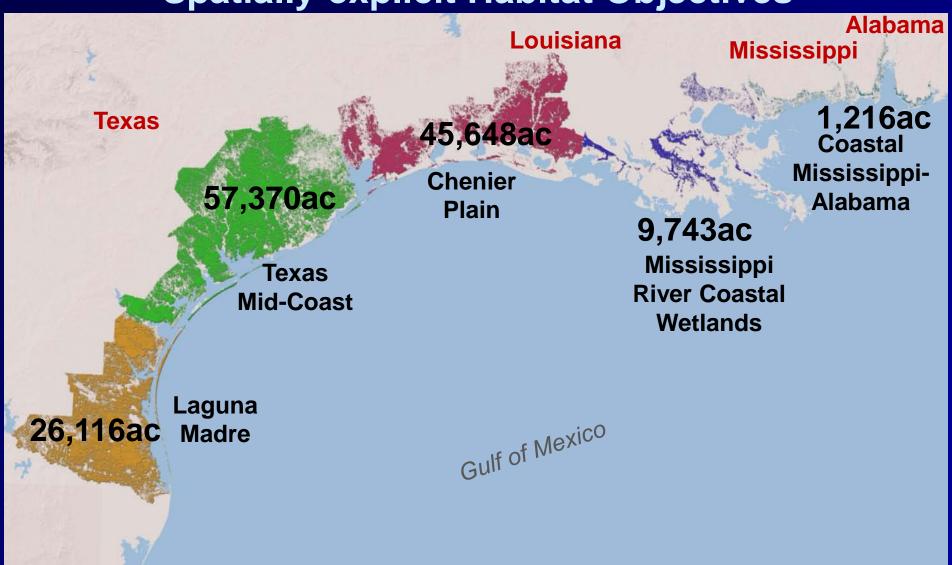
GCJV Shorebird Conservation: Biological Planning Limiting Factors & Habitat-Population Models

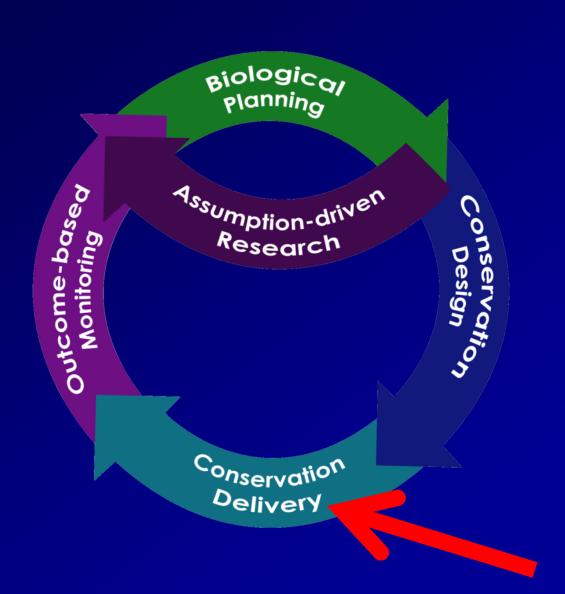


- Gulf Coast Population Target = 13.6 million shorebirds
- 8.7 million use inland/managed habitats
 - •Species-specific habitat use
 - •Shorebird energetic requirement (EMR) = 912(shorebird body mass)^{0.70}4
 - •Net energy content of invertebrate prey = 23.8kJ g⁻¹ (0.73) = 17.374 kJ/g
 - •Daily invert requirement EMR = (EMR)/d/(17.374 kJ/g/)+2g
 - •Invertebrate density = 2.4 g/sq m
 - •Turnover time for transient shorebirds = 10 d
- Habitat Objective = ~140,000ac
 July-Nov Saturated or Shallow Flooded
 Ricefields (Active or Idle) or Moist Soil



GCJV Shorebird Conservation: Conservation Design Spatially-explicit Habitat Objectives





What proportion of the GCJV budget is typically spent on direct habitat delivery (e.g., acquisition, restoration, or enhancement of habitats)?

```
b) 5%
b) 15%
c) 35%
d) 75%
```

GCJV Shorebird Conservation Habitat Delivery

USDA Farm Bill

2007 State Acres For wildlife Enhancement 2010 Migratory Bird Habitat Initiative (WHIP/EQIP) 2011 Conservation Reserve Enhancement Program 2012 Migratory Bird Habitat Initiative (EQIP-LA)

Initiative Teams

North American Wetlands Conservation Act
USFWS Coastal Program

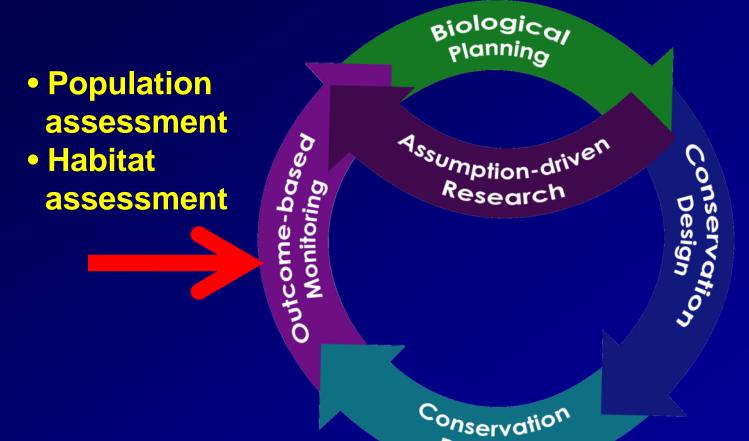
Private Land Partnership Programs

Texas Prairie Wetlands Project Waterfowl Rest Area Program

Public Lands

NWRS (e.g., via Comprehensive Conservation Plans) WMAs

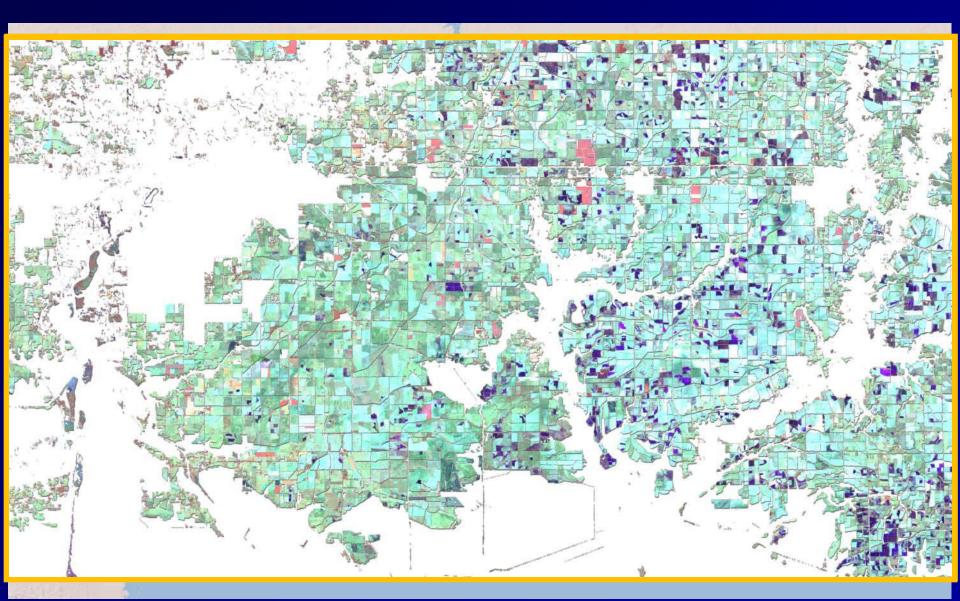
Delivery



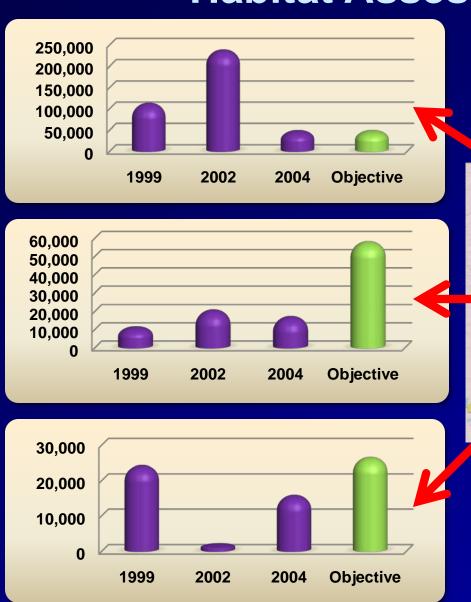
GCJV Shorebird Conservation Habitat Assessment



GCJV Shorebird Conservation Habitat Assessment

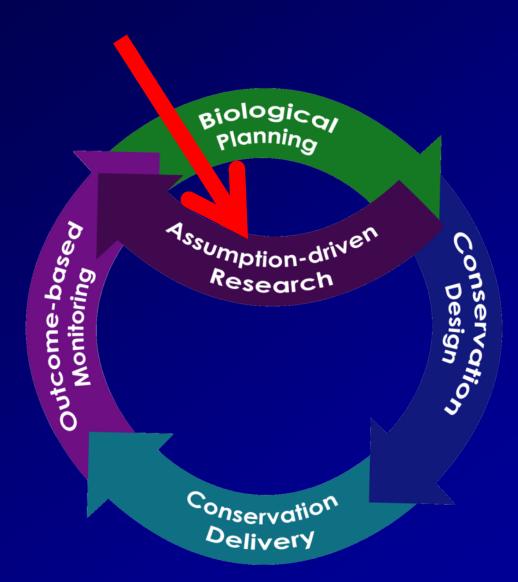


GCJV Shorebird Conservation Habitat Assessment









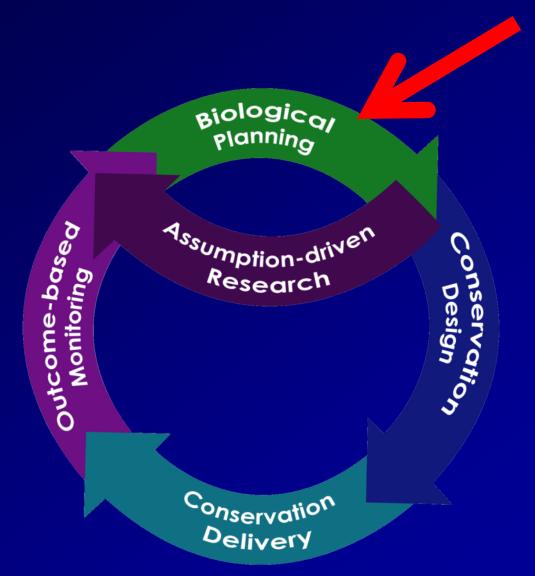
Fall Migrating Shorebirds



- Gulf Coast Population Target = 13.6 million shorebirds
- 8.7 million use inland/managed habitats
 - •Species-specific habitat use
 - •Shorebird energetic requirement (EMR) = 912(shorebird body mass)^{0.70}4
 - •Net energy content of invertebrate prey = 23.8kJ g ⁻¹ (0.73) = 17.374 kJ/g

Invertebrate density = 2.4 g/sq m

Habitat Objective = ~140,000ac
 July-Nov Saturated or Shallow Flooded
 Ricefields (Active or Idle) or Moist Soil



Questions? www.gcjv.org www.mbjv.org