LMVJV SCIENCE

General Science Updates



Anne E. Mini, LMVJV

Science Coordinator





Forest Protection Model

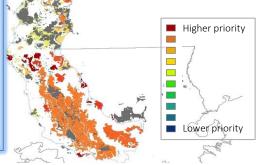
FPDSM Version 7 (Final)

- Protection Scores given to all forest-core areas
- Non-hostile habitat has been removed
- Size classes have changed slightly

Old Area	New Area				
>2,100	> 2,000				
1,680-2,100	1,600 - 2,000				
< 1,680	< 1,600				

 Permanently-protected portions of forest-core areas removed from DSM

Finalized a manuscript for submission to the journal *Forests* for special issue -- <u>Protected Areas in Forest</u> <u>Conservation: Challenges and</u> <u>Opportunities</u> MAV FPDSM v7 (plus Conservation Estate)







MAV Landbird Plan

- Meeting at October 29-30th at Ducks Unlimited HQ in Memphis, TN
- Discuss "roll out" of MAV Landbird Plan
- Invitees:
 - Dan Twe

Rar

- Boł
- Dav
- Sara
- LM'

Forest Area Required to Support Landbird Population Goals for the Mississippi Alluvial Valley Bird Conservation Region.

Reforestation of an additional <u>300,000 ha</u> within the MAV is likely enough to attain the forest-bird population goals for Lower Mississippi Valley Joint Venture.

3rock

The area of presumed population sustaming habitat, under existing forest management, was sufficient to support the species' population objective for 25 species. Of the other species, we estimated that the target populations of 5 additional species could be supported via widespread changes in forest management and the target populations of 11 more species are likely accommodated within the MAV when populations in presumed non-sustaining forest or non-forest habitats are considered. Finally, for the remaining 13 species, we estimate the population increase needed to achieve their population goals





Human Dimensions

July meeting with LMVJV Waterfowl Working Group Co-chairs – Luke Naylor and Dale James

- 1) What Human Dimensions considerations do we need to account for in our Joint Venture, in general
- 2) Based on 2 or 3 ideas, solicit feedback on how to bring these ideas to fruition

Invitees:

 Luke Naylor (AGFC), Dale James (DU), Ashley Gramza (AGFC), Keith McNight (LMVJV), Anne Mini (LMVJV), Wiley Carr (USFWS), John Brunjes (KDWR), Heath Hagy (USFWS), Randy Wilson (USFWS)

November 19-20th in Stuttgart, AR

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Monitoring and Evaluation Priorities Update



Anne E. Mini, LMVJV

Science Coordinator



Monitoring & Evaluation

Supplies raw material for testing important assumptions made in the Biological Planning & Conservation Design

Biological Planning Provides essential feedback loop to measure success towards objectives monitor Assumption-based Conservation Design Research **Conservation Delivery**

Tend to be the most consistently ignored and/or underfunded





LMVJV Monitoring & Evaluation Summary Spring 2016

- Monitoring/Evaluation Tool \rightarrow how do we monitor
- Purpose → why is it a need
- Protocol → link or description if in place
- Status \rightarrow is the monitoring currently happening
- Timeframe → how often should item be monitored

Waterfowl

Monitoring/Evaluation Need: Evaluate contribution of Joint Venture to North American Waterfowl Management Plan habitat goals

Public land

- Monitoring/Evaluation Tool: Water Management Unit Database
- Purpose: Track Duck Energy Days provided through impounded wetland units on public land
- Protocol: <u>https://lmvjv.cr.usgs.gov/home/</u>
- Status: On-going
- Timeframe: Data calls as needed



Monitoring/Evaluation Need: Assess management capabilities in late summer/early fall on public lands

- Monitoring/Evaluation Tool: None
- Purpose: Late summer and early fall water availability is assumed most limiting to shorebird species during migration through the LMVJV. The condition and availability of shorebird habitat on public lands is relatively unknown. An assessment of management capabilities for shorebirds would highlight limitations in management or identify areas in which further support is needed to provide high quality shorebird habitat.
- Protocol: none
- Status: Needs assessment
- Timeframe: unknown





LMVJV Monitoring & Evaluation Where we left off (2016)

- Provide repository for detailed methodology
- Identify which monitoring/evaluation needs may be highest priority
- Identify factors for why monitoring is not occurring
- Gather Science Team to discuss strategy for developing monitoring and evaluation priorities







LMVJV Monitoring & Evaluation

LMVJV Operational Compass: Habitat Conservation To Sustain Bird Populations Through Science, Technology and Partnerships										
SHC Framework	Element/Product	NAWMP	PIF	USSCP	NAWP	NAWMP	PIF	USSCP	NAWP	
	Biological Planning Unit	Mississippi Alluvial Valley				West Gulf Coastal Plains/Ouachitas				
litoring	Conservation Tracking System									
Outcome-based Monitoring	Habitat Inventory and Monitoring Program									
Outcome	Population Monitoring Program									

Some reliable information exists, but needs to be updated; mechanisms in development

Information exists, but not much or not adopted by JV; needs significant attention; AND/OR lacking in some guilds within the bird group

Information absent or of little value; little/no attention paid to this by the JV

LMVJV Monitoring & Evaluation

Lower Mississippi Valley Joint Venture Monitoring and Evaluation Plan

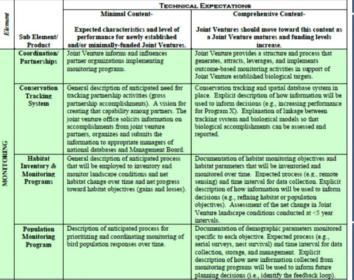






Introduction

The Lower Mississippi Valley Joint Venture Partnership promotes targeted, outcome-based monitoring that either: 1) evaluates our progress in meeting stated population and habitat objectives for the major international bird plans, or 2) tests assumptions made in our biological models regarding population or habitat objectives. Some of our monitoring needs have systems already established to track metrics, and others need to be developed. The four major international bird plans include the North American Waterfowl Management Plan, the Partners in Flight Landbird Plan, the North American Waterfowl Management Plan, the Partners in Flight Landbird Plan, the North American Waterbird Conservation Plan, and the U.S. Shorebird Conservation Plan. Furthermore, we have certain technical expectations that represent the desired characteristics of Joint Ventures with regards to monitoring. Under each bird plan section, we will describe how we are achieving content in each area, provide recommendations for continuing or improving our activities, and briefly describe habitat inventory and monitoring programs and population monitoring programs where appropriate.



Coordination

Tracking System

Habitat

Inventory & Monitoring

Population Monitoring









LMVJV Monitoring & Evaluation Next Steps

- Finish draft of Monitoring and Evaluation plan
- Share draft with Science Team for input
- Arrange Spring meeting of the Science Team to discuss finalizing the plan



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Water Management Unit Tool Update



Anne E. Mini, LMVJV

Science Coordinator







LMVJV Wetlands Management & Monitoring Applications History

Two web-based, online applications

- Water Management Unit (WMU) Management
- Moist-soil Monitoring, Management & Reporting (MMR)



LMVJV Moist-Soil Data Management Applications

Links

- Water Management Unit (WMU) Management Tool
- Moist-Soil Monitoring, Management & Reporting Application

User Accounts

- Create a New User Account
- Forgot your Password?
- Forgot your Username?







LMVJV Wetlands Management & Monitoring Applications

History of the Application

- LMVJV Waterfowl Working Group
- Needed a way to track waterfowl habitat to assess energy (DEDs) provided
- Completed in 2011
- Relevance to Joint Venture Partners
 - Designed for public land data
 - Informs Joint Venture biological planning
 - Assess contribution to NAWMP goals







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LMVJV Moist-Soil Data Management Applications

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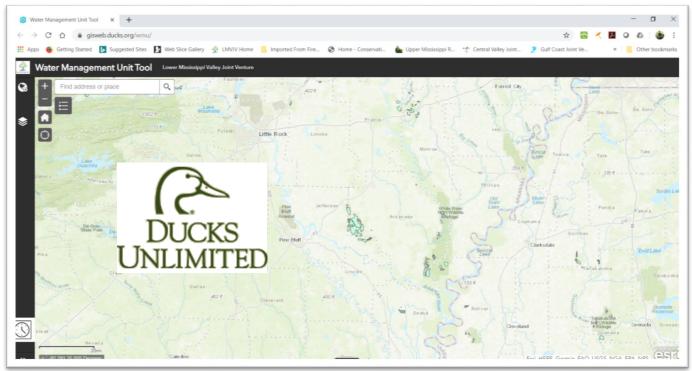
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LMVJV Wetlands Management & Monitoring Applications Now

- One web-based, online application
 - Water Management Unit (WMU) Management

- Moist-soil Monitoring, Management & Reporting (MMR)



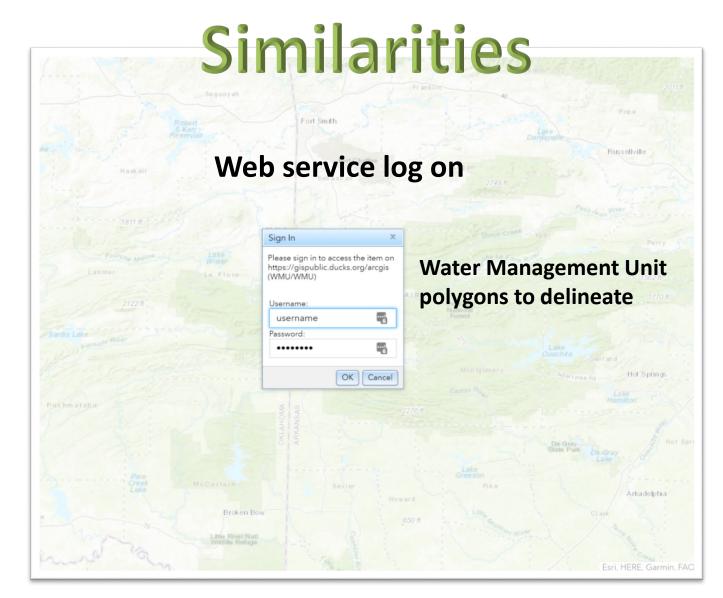






LOVER MISSISSIPPI Valley JOINT VENTURE WWW.Img/corg

LMVJV Water Management Unit Tool

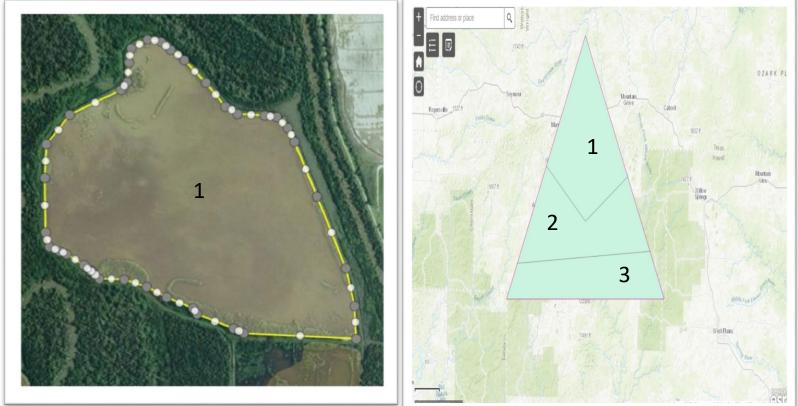




LMVJV Water Management Unit Tool Differences

Old – Single Unit

New – Subunits within WMU





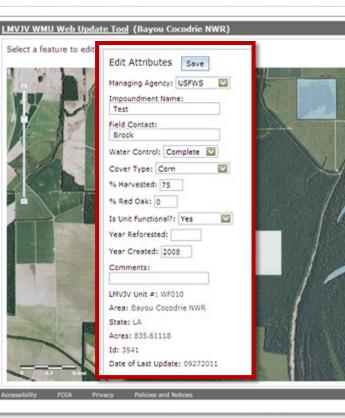




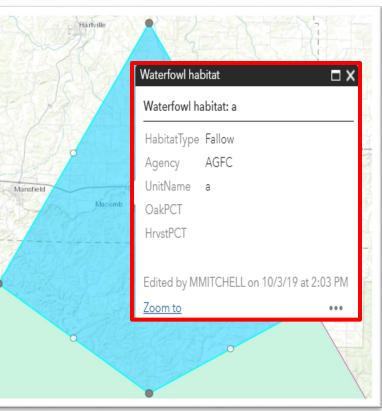
LMVJV Water Management Unit Tool

Differences

Old – Many Attributes



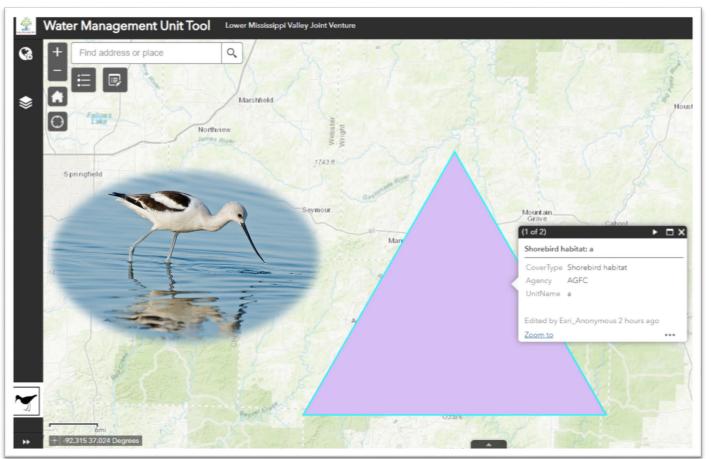
New – Simplified Attributes





LMVJV Water Management Unit Tool

New – Shorebird Module!!

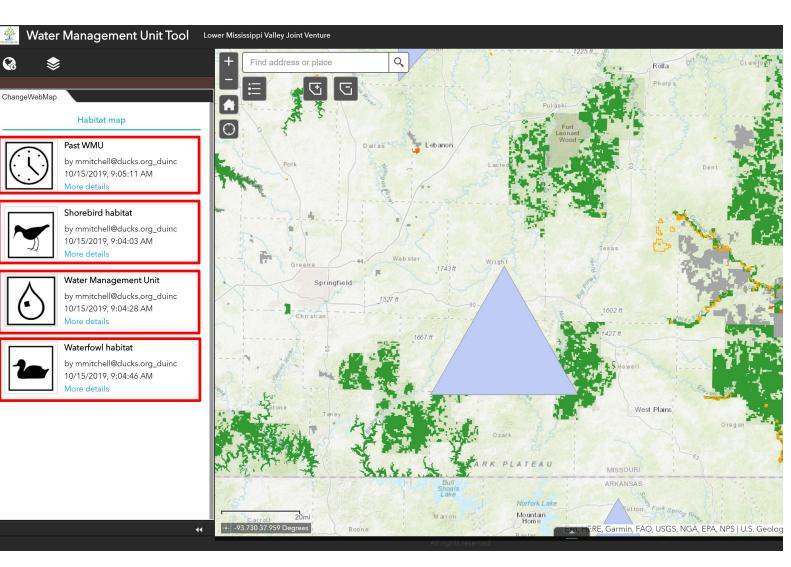






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LMVJV Water Management Unit Tool







LMVJV Water Management Unit Next Steps

- Testing and debugging through early November
- Landing page and definitions page
- Requires new input of polygons into system



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Science Investment Priorities and Recommendations



Anne E. Mini, LMVJV

Science Coordinator





Science Investment

- LMVJV has ~\$50,000 to make decisions for funding of research
- Gathered Science Team for call on 23 September

Short-term: Invest in a known project that needs additional funding now

Long-term: Request what we want to spend money on based on unfunded Science Priorities with the existing money potentially only being a part of that overall funding need





Science Priorities



LOWER MISSISSIPPI VALLEY JOINT VENTURE SCIENCE INTEGRATION AND EVALUATION TEAM OCTOBER 2014

Lower Mississippi Valley Joint Venture Operational Plan

2018-2023

for a

A landscape supporting healthy native bird populations across the LMVJV



October 2018







www.lmvjv.org





Science Investment – Next Steps

- Investigate what is out there in terms of waterbird projects and potentially what could be done with funding
- Bring ideas to the Science Team after the Fall Management Board meeting
- Science Team will plan for a late spring/early summer in-person meeting to discuss an update of the Science Priorities and potential funding for subsequent years