



US Army Corps
of Engineers®



LaGrange Pool Channel Maintenance Pool Plan

Open House and Public Meeting



US Army Corps
of Engineers®



One Team: Relevant, Ready, Responsive and Reliable



US Army Corps
of Engineers®

Welcome



- **Purpose of today's meeting:**
 - Describe the Channel Maintenance Pool Plan (ChaMPP)
 - Share information
 - Answer questions
 - Gather information
- **Products from today's meeting:**
 - Better understanding
 - Comment/Response package
 - Potential changes to alternatives



US Army Corps
of Engineers®

Introductions



Corps Channel Maintenance Pool Plan

- Nicole McVay - Env. Analysis
- Andy Leichy - Planning
- Tim Fiscus - Real Estate
- Bill Graham - Operations

Corps Public Involvement

- Marsha Dolan – Public Involvement
- Sue Simmons – Public Involvement

U.S. Fish & Wildlife Service

- Ron Fisher, Chautauqua Refuge Acting Manager

Illinois DNR

- Bob Schanzle, Realty and Env. Planning

Other Corps Programs

- Marshall Plumley, Planning (NESP and IL River Ecosystem)
- Steve Johnson, Env Analysis (ChaMPP Mississippi)
- Mike Cox – Acting Chief of Locks and Dams - ILWW

Media Inquiries

- Ron Fournier, Public Affairs



US Army Corps
of Engineers®

Meeting Format

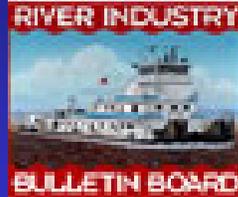


- **Presentation**
- **Questions and Answers**
- **Summary (if time allows)**



US Army Corps
of Engineers®

LaGrange Stakeholders



Illinois Environmental
Protection Agency

- Agricultural Producers
- Federal Agencies
- Fishermen -- Comm. & Rec.
- Individuals
- Levee & Drainage Districts
- Local Communities & Counties
- Marinas & boat ramps
- Navigation Interests
- Non-Government Organizations (NGO)
- Private Landowners
- Recreational Boaters
- State Agencies



One Team: Relevant, Ready, Responsive and Reliable



US Army Corps
of Engineers®

What is Channel Maintenance



- **Definition – Activities associated with maintaining the 9-foot channel project**
- **Types**
 - **Dredging**
 - ◆ Hydraulic
 - ◆ Mechanical
 - **Regulating Structures**
 - ◆ Wing Dams
 - ◆ Closing Dams
 - ◆ Channel Stabilization





Existing Channel Maintenance

US Army Corps
of Engineers®



■ Activities

- On-going Hydrographic Surveys
- Annual Dredging Program
- On-Site Inspection Teams
- Emergency Dredging
- Rock Work as Needed



One Team: Relevant, Ready, Responsive and Reliable



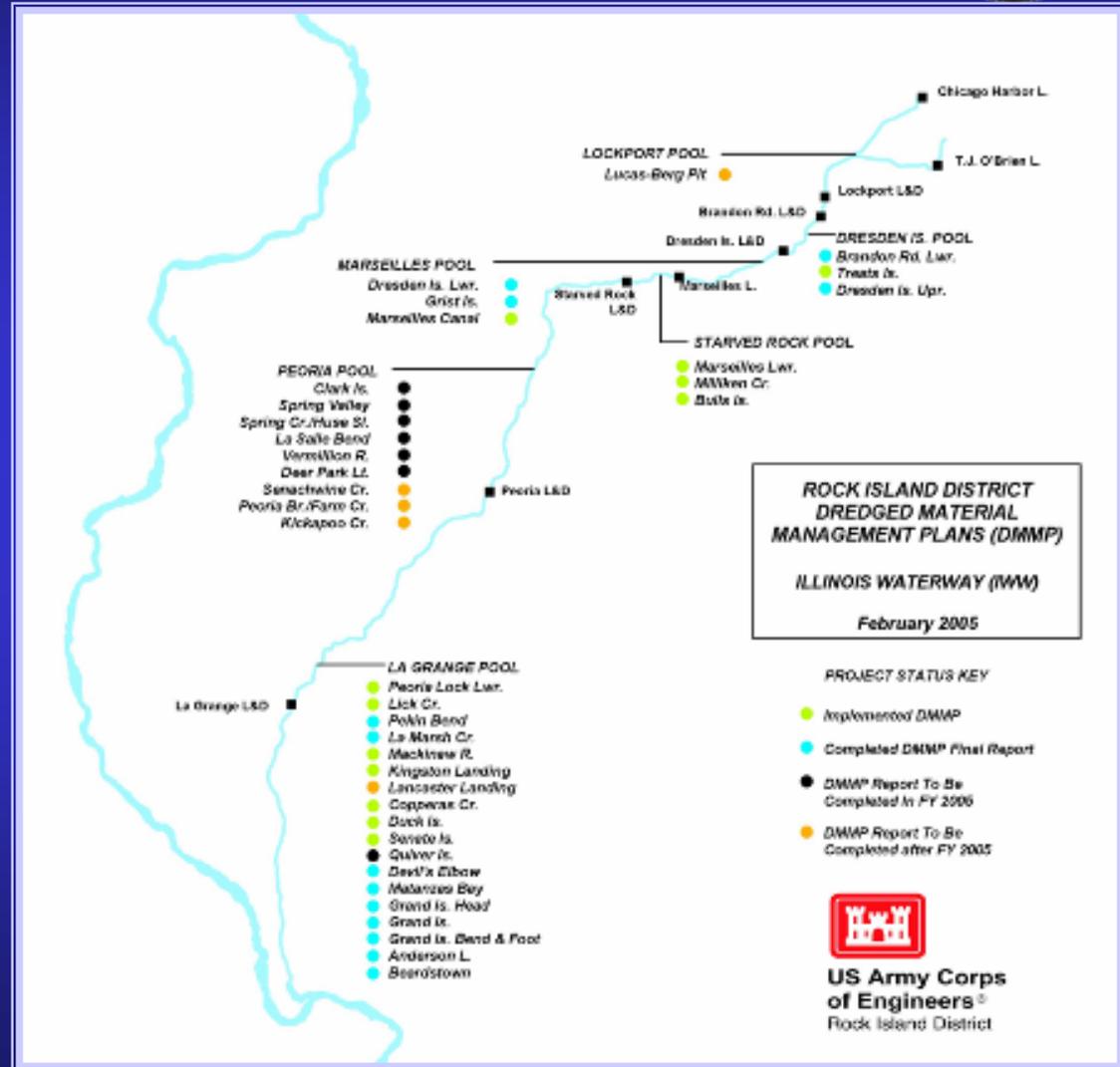
Existing Channel Maintenance



US Army Corps
of Engineers®

■ Studies/Report

- PEA
- DMMP Reports
- 404 Studies



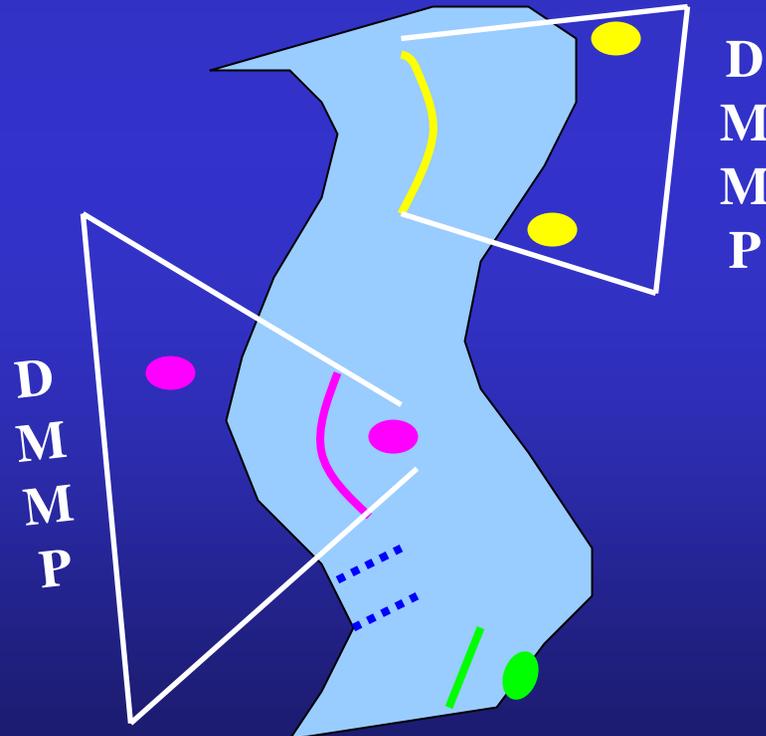


US Army Corps
of Engineers®

Existing Channel Maintenance



- **What's Missing?**
 - **Pool-wide Planning**



— One Team: Relevant, Ready, Responsive and Reliable —



US Army Corps
of Engineers®

Why?



- **Single document that lists policy, procedures and site-specific information**

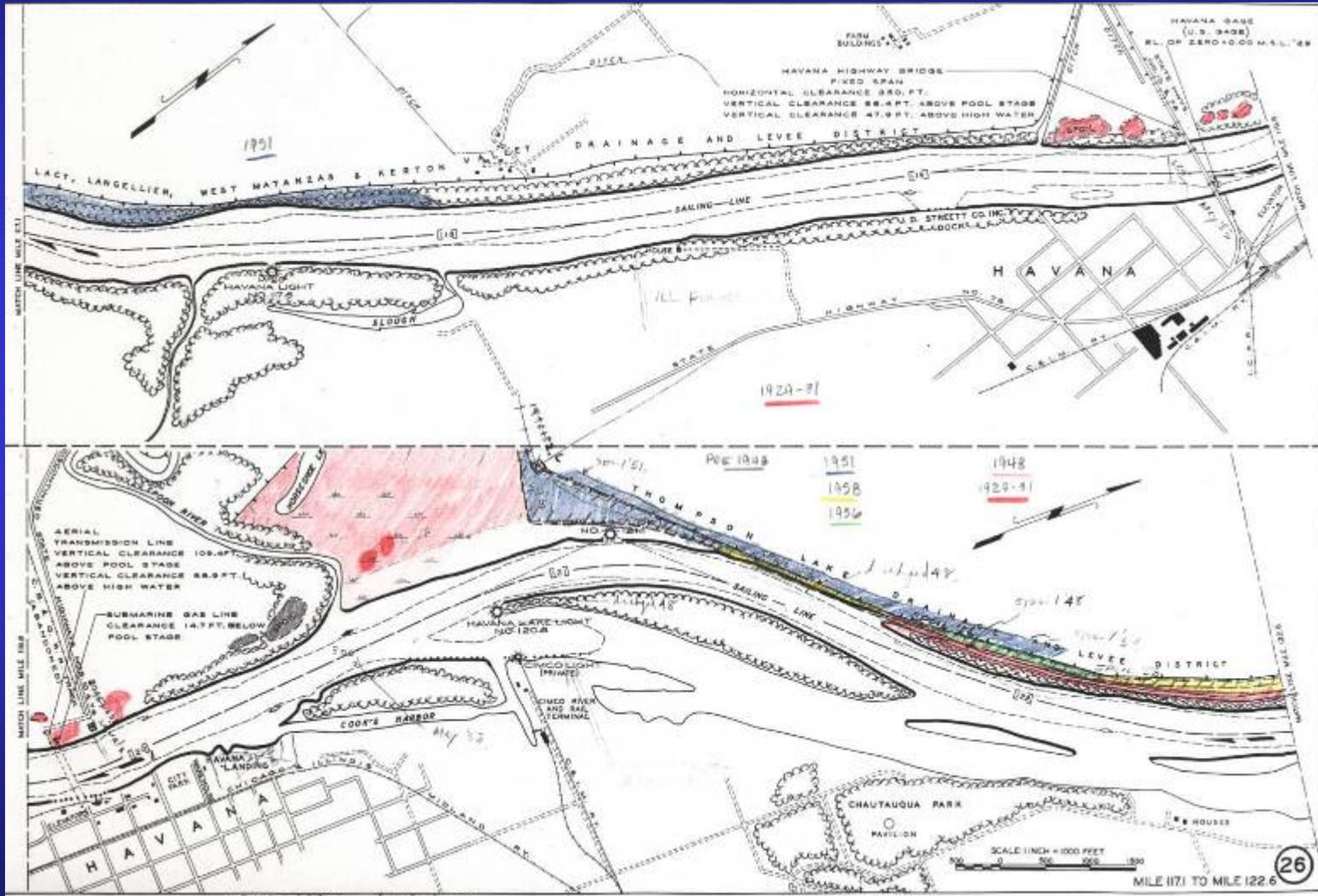
- **Comprehensive 40-year pool planning:**
 - **Frequent/Chronic dredging**
 - **Non-frequent dredging**
 - **Emergency dredging**
 - **Regulating structures**

- **More efficient NEPA compliance**



US Army Corps
of Engineers®

Historic Dredging Map



One Team: Relevant, Ready, Responsive and Reliable



US Army Corps
of Engineers®

Projected ChaMPP Needs Infrequent Sites



PROJECTED CHANNEL MAINTENANCE REQUIREMENTS For LaGrange Pool 40 Year Pool Plan Non-DMMP Sites

Dredge Cut	River Miles	Total Volume (y3)	Number of Events	Average Vol. per Event (y3)	Frequency of Dredging (Events / Year)	Acreage Required for Placement	Placement Type	Notes
LaGrange Lock	80.0 - 81.0	48,000	8	6,000	0.200	4	Mechanical	Site already coordinated
Briggs Landing	83.7 - 84.0	80,000	4	20,000	0.100	6	Mechanical	
Federick Landing	90.5 - 92.0	40,000	2	20,000	0.050	6	Mech / Hyd	
Sugar Island	94.0 - 95.2	80,000	4	20,000	0.100	12	Mech / Hyd	
Browning Landing	97.0 - 98.0	40,000	2	20,000	0.050	3	Mechanical	
Elm Creek	102.4 - 102.8	40,000	2	20,000	0.050	6	Mech / Hyd	
Big Sister Creek	125.5 - 126.1	20,000	1	20,000	0.025	2	Mechanical	Material could go to Liverpool
Liverpool	126.1 - 132.0	40,000	2	20,000	0.050	6	Mech / Hyd	
Coon Hollow Island	140.5 - 142.0	30,000	1	30,000	0.030	2	Mechanical	Material could go to Lancaster
Lancaster Landing	142.0 - 145.0	360,000	12	30,000	0.300	19	Hydraulic**	



US Army Corps
of Engineers®

Projected ChaMPP Needs

Frequent Sites



PROJECTED CHANNEL MAINTENANCE REQUIRMENTS

For LaGrange Pool 40 Year Pool Plan

DMMP Sites

River Mile	Site	Acres	Init. Capacity	Cap. Used	Cap. Left	% Cap.Used	% of Plan	Schedule	Plan Life (yrs)	Life Left (yrs)
87.6L	Beardstown	12	599,000	242,336	356,664	40%	45%	90%	20	11
134.5L	Senate Island	15	391,100	44,460	346,640	11%	20%	57%	30	20
135.2L	Duck Island	6	156,400	20,518	135,882	13%	20%	66%	30	20
136.0L	Copperas Creek	21	534,700	17,206	517,494	3%	20%	16%	30	20
145.4L	Kingston Mines	25	1,037,000	92,818	944,182	9%	23%	38%	30	19
147.3L	Mackinaw River	48	1,555,600	284,376	1,271,224	18%	23%	78%	30	19

One Team: Relevant, Ready, Responsive and Reliable



US Army Corps
of Engineers®

Projected Placement Needs LaGrange Pool



PROJECTED CHANNEL MAINTENANCE REQUIREMENTS

For LaGrange Pool 40 Year Pool Plan

All Sites

Dredged Material Placement Coordination Sites	Estimated Acres of Need
Mackinaw DMMP	39.2
Lancaster Landing / Coon Hollow Island	40
Copperas Creek DMMP	6
Senate Island DMMP	31.1
Liverpool	10
Grand Island DMMP	4.1
Elm Creek	6
Browning Landing	3
Sugar Island	12
Fredrick Landing	6
Beardstown DMMP	38.1
Briggs Landing	6

One Team: Relevant, Ready, Responsive and Reliable

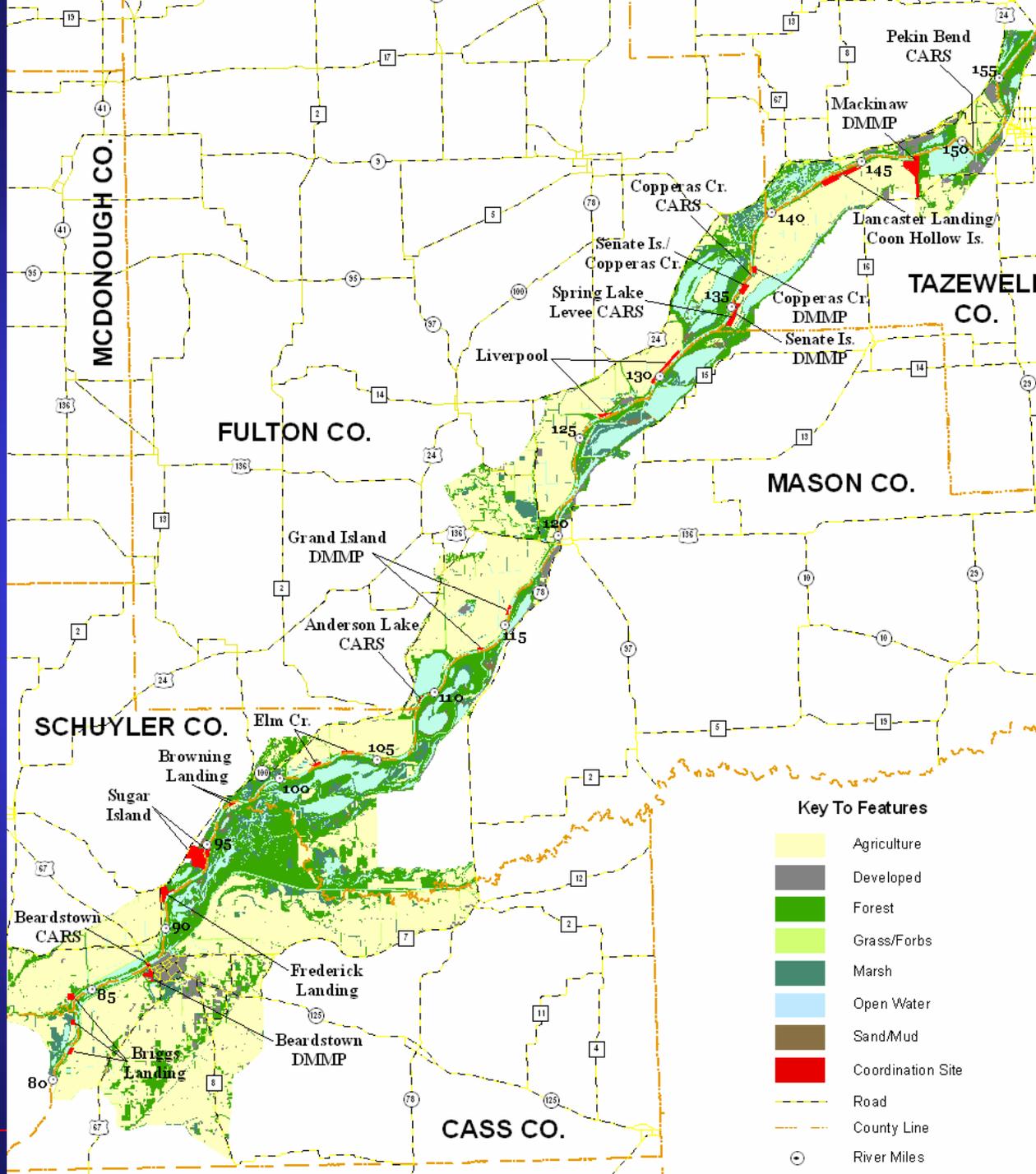


US Army Corps
of Engineers®

Placement Considerations



- **Land Owner Impacts**
- **Floodplain vs. Upland sites**
- **Environmental concerns:**
 - **Endangered Species**
 - **Wetlands**
 - **Waste Sites**
 - **Cultural Resources**
- **Beneficial Use**
- **Cost**
- **Feasibility**





Dredged Material Placement Coordination Sites	Estimated Acres of Need	Expand Existing DMMP	Behind Levee	Historic Bankline Placement	Beneficial Use	Plate #	Notes
Mackinaw DMMP*	39.2						
RM 147.0 - 147.8 L		X	X			1	Main or flank levee
Lancaster Landing / Coon Hollow Island	19.4						
RM 142.0 - 145.0R				X		2	
RM 143.0 - 144.0L			X			2	
RM 142.0 - 144.0L				X		2	Coon Hollow Island
Copperas Creek DMMP*	6						
RM 136.8 - 137.1L		X	X			3	
Senate Island DMMP*	31.1						
RM 135.7 - 136.2L		X	X			3	
RM 134.0 - 135.2L		X	X			4	
RM 132.0 - 134.0R				X		4	
RM 129.6 - 131.5R			X		X	5	See Liverpool (below)
Liverpool	6						
RM 129.6 - 131.5R			X		X	5	
RM 126.5 - 127.1R					X	6	
Grand Island DMMP *	4.1						
RM 113.0 - 113.4R		X	X			7	Expand DMMP Site 3
RM 115.5 - 116.0R		X	X			7	Expand DMMP Site 5
Elm Creek	6						
RM 103.3 - 104.0R				X		8	
RM 103.5 - 103.9R			X			8	
RM 101.8 - 102.3R			X			8	
Browning Landing	3						
RM 97.3R					X	9	
RM 97.3L				X		9	
RM 97.2 - 97.4L						9	In floodplain
Sugar Island	12						
RM 94.3 - 96.0L				X		10	
RM 94.3 - 95.2L						10	On Sugar Island
RM 93.6 - 94.6R						10	In floodplain
Fredrick Landing	6						
RM 91.8 - 92.0R					X	11	Bankline Placement
RM 91.3 - 91.7R			X			11	
Beardstown DMMP*	38.1						
RM 87.5 - 88.0L		X	X			12	
Briggs Landing	6						
RM 84.0 - 84.2 R			X			13	
RM 83.9 - 84.1L				X		13	
RM 82.9 - 83.1R						14	Floodplain
RM 81.7 - 81.9L			X			14	

*These are acreages in addition to those identified in the original DMMP's.



US Army Corps
of Engineers®



**Mackinaw
Placement
Site
Plate 1**



One Team: Relevant, Ready, Responsive and Reliable



US Army Corps
of Engineers®



Briggs Landing Plate 14



One Team: Relevant, Ready, Responsive and Reliable



US Army Corps
of Engineers®

Regulating Structures



- Wingdams (chevrons)
- Closing Dams
- Channel Stabilization





US Army Corps
of Engineers®

How was Need Identified?



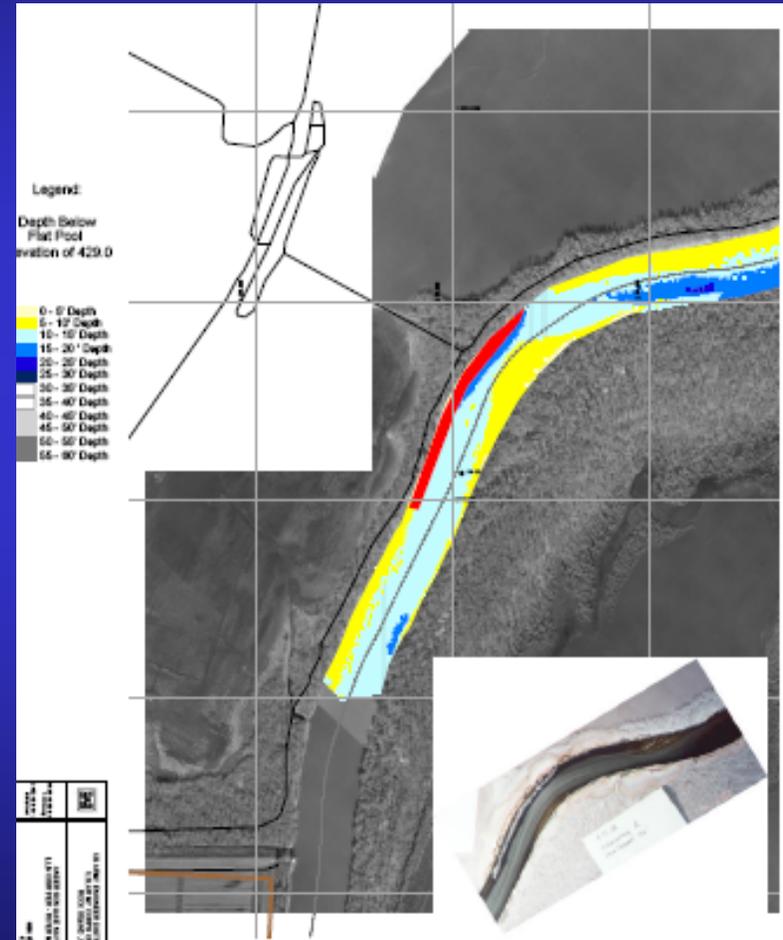
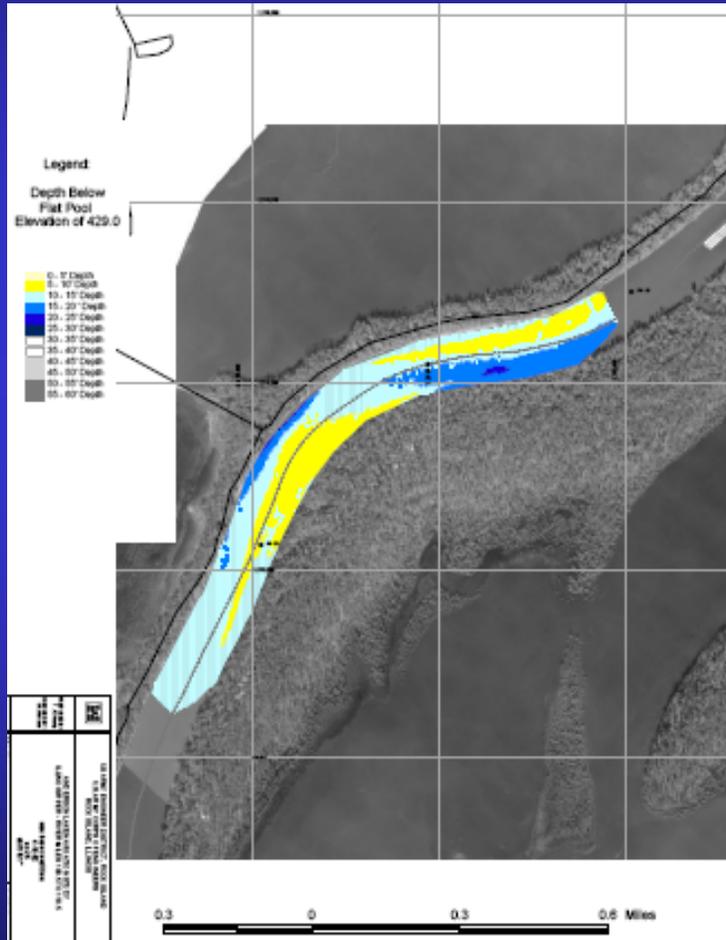
- **Regulating Structures**
 - **Coordination with Industry, Agencies, and Public**
 - **Modeling Efforts**





US Army Corps
of Engineers®

Modeling



— One Team: Relevant, Ready, Responsive and Reliable —



US Army Corps
of Engineers®

Regulating Structures



PROJECTED CHANNEL MAINTENANCE REQUIREMENTS

For LaGrange Pool 40 Year Pool Plan

Regulating Structures Sites

Rockwork (CARS) Coordination Sites Type

Pekin Bend

RM 149.0 - 151.0L

Channel Stabilization

Copperas Creek

RM 136R

Channel Stabilization

Spring Lake Levee

RM 134.2 - 134.7L

Channel Stabilization

Anderson Lake

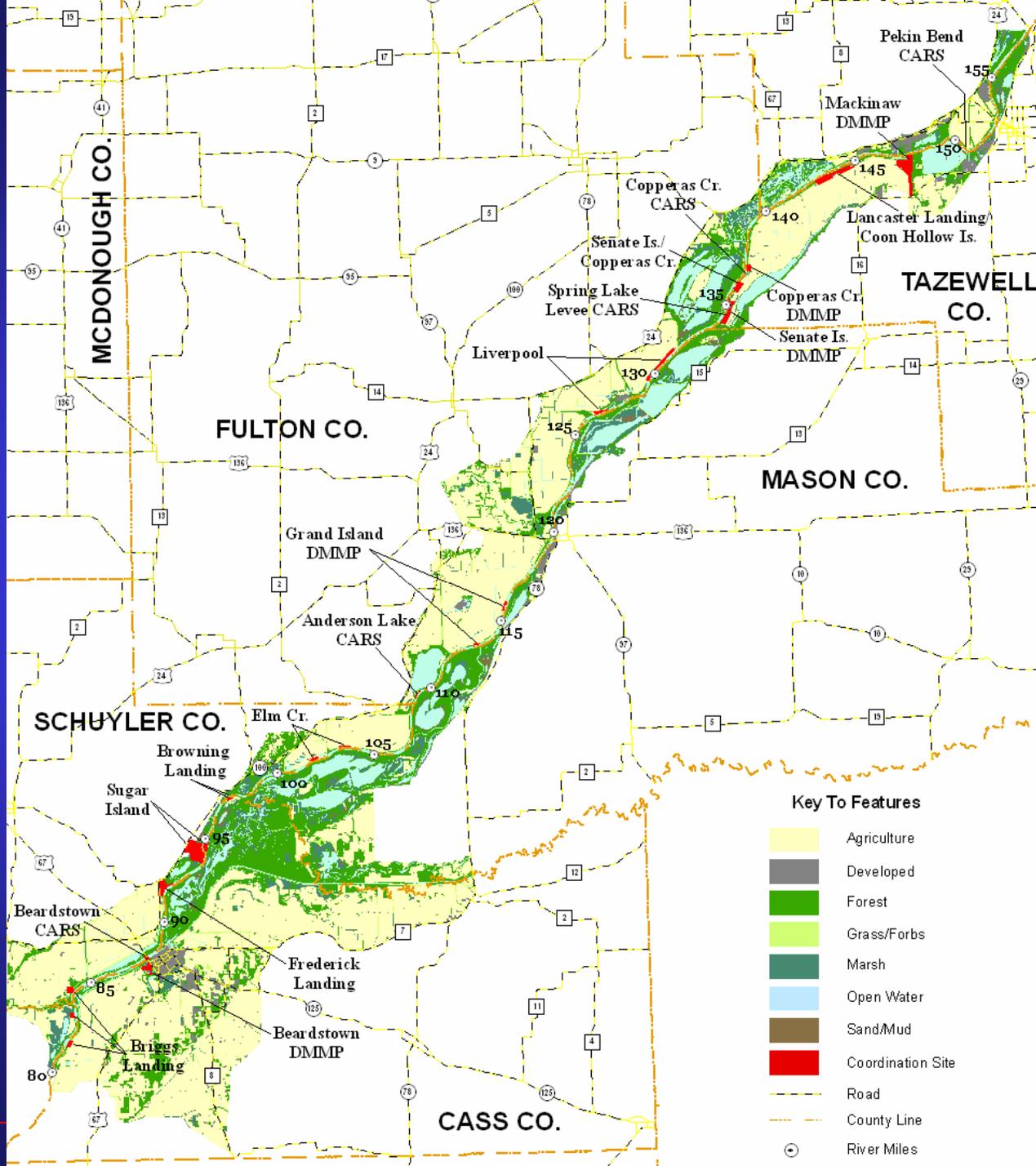
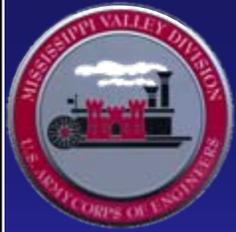
RM 108.7 - 109.5R

Channel Stabilization

Beardstown

RM 87.9

Wing Dams in vicinity of new Hwy 67 Bridge



Key To Features

- Agriculture
- Developed
- Forest
- Grass/Forbs
- Marsh
- Open Water
- Sand/Mud
- Coordination Site
- Road
- County Line
- River Miles



US Army Corps
of Engineers®

Regulating Structures Specific Sites



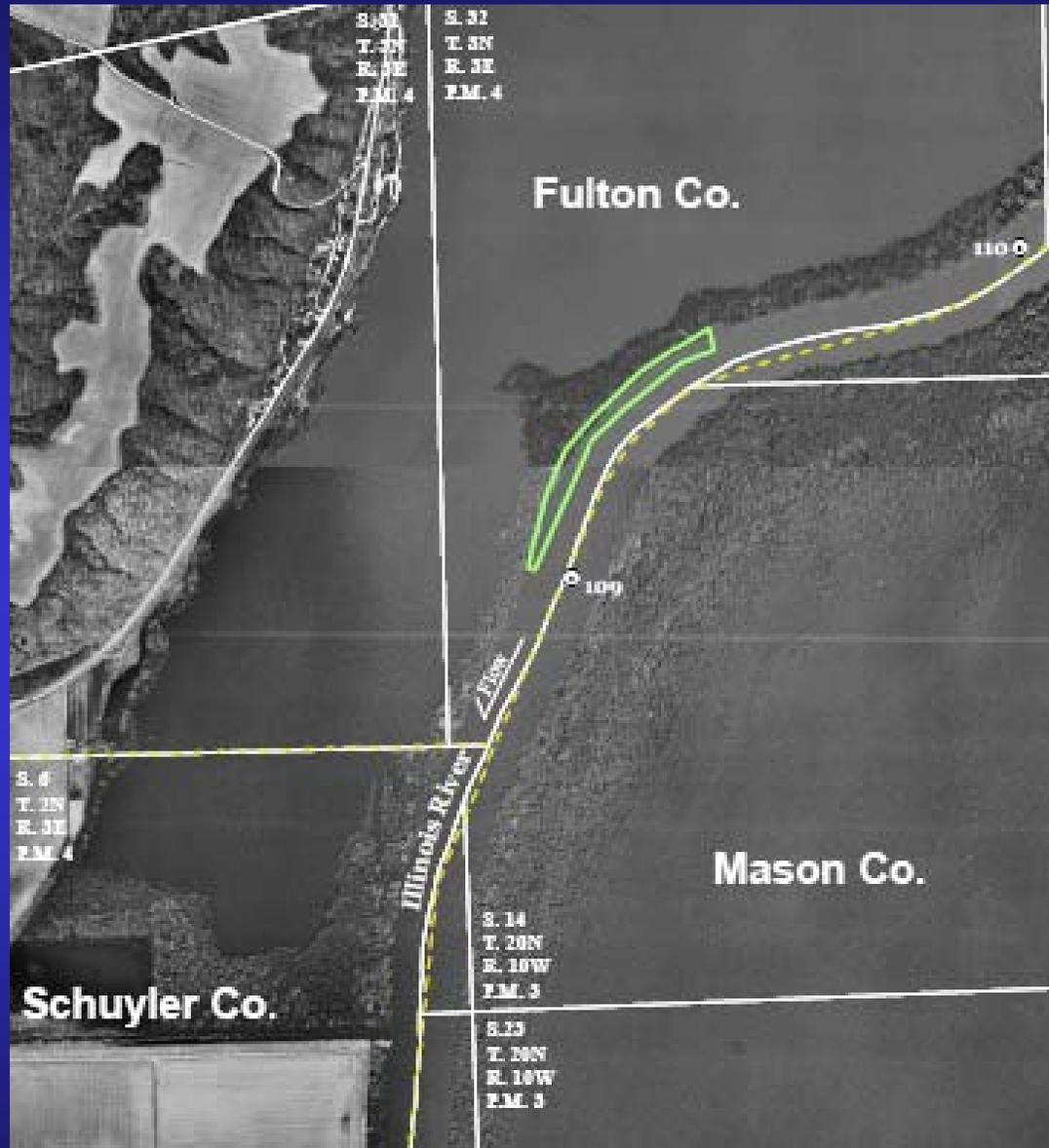
Rockwork (CARS) Coordination Sites	Type	Plate #	Notes
Pekin Bend			
RM 149.0 - 151.0L	Channel Stabilization	15	
Copperas Creek			
RM 136.4 - 136.6L	Channel Stabilization	16	
Spring Lake Levee			
RM 134.2 - 134.7L	Channel Stabilization	17	
Anderson Lake			
RM 108.7 - 109.5R	Channel Stabilization	18	
Beardstown			
RM 87.9R & L	Wing Dams in vicinity of new bridge piers.	19	At Hwy. 67 Bridge



US Army Corps
of Engineers®



**Anderson
Lake
Plate 18**





US Army Corps
of Engineers®

Summary



■ ChaMPP

- **40-year Plan for all Channel Maintenance Activities**
- **You won't see much difference out on the river**
- **Coordination of activities in the pool will be more efficient**



US Army Corps
of Engineers®

Questions?



- **Question and Answers**
- **Summary of main themes if time allows**



US Army Corps
of Engineers®

Mr./Ms. Courtesy



- 😊 **Come to the microphone**
- 😊 **One question and one follow-up question**
- 😊 **State your name and agency**
- 😊 **Speak clearly and slowly**
- 😊 **Hold down room conversation**
- 😊 **EVERY comment and question is important**



US Army Corps
of Engineers®



Questions?



Contacts:

Team Leader (IWW): Nicole.M.McVay@mvr02.usace.army.mil (309) 794-5547

Team Leader (UMRS): Steven.M.Johnson@mvr02.usace.army.mil (309) 794-5704

Website:

<http://www.mvr.usace.army.mil/PublicAffairsOffice/DMMP/Lagrange.asp>

One Team: Relevant, Ready, Responsive and Reliable