

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: LPL-1268-09

Name: CITY OF MADISON: INFOS Model for Yahara Lakes

Type: Lakes Grant

Subtype: Large Scale Lake Planning

Status: COMPLETE

Start Date: 4/1/2009

End Date: 12/31/2009

Purpose: "The City of Madison proposes to develop the first phase of an evaluation and prediction model for the upper half of the Yahara Watershed, called Integrated Nowcast and Forecast Operation System (INFOS). This is a real-time, three-dimensional, operational model that can provide information to lake managers to assess water level orders in conjunction with dam operations on the Yahara system, predict flood heights under various scenarios which may assist planning efforts, and identify constrictions that need to be removed to reduce flooding. The model can help define floodplain zones for improved planning, among other benefits. The deliverable will consist of a final report in hard copy and electronic copy describing the web browser interface, and give the final site address of the online model. All raw data will be included in digital format."

Objective:

Comments: Grantee is CITY OF MADISON

Outcome:

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
CITY OF MADISON,	GRANT_RECIPIENT	ACTIVE	4/1/2009	12/31/2009	CITY OF MADISON	

Project Statuses

Date	Reported By	Status	Comments
------	-------------	--------	----------

Actions

Action	Detailed Description	Start Date	End Date	Status
Water Quality Modeling	29395805	4/1/2009		PROPOSED
Grant Awarded	"The City of Madison proposes to develop the first phase of an evaluation and prediction model for the upper half of the Yahara Watershed, called Integrated Nowcast and Forecast Operation System (INFOS). This is a real-time, three-dimensional, operational model that can provide information to lake managers to assess water level orders in conjunction with dam operations on the Yahara system, predict flood heights under various scenarios which may assist planning efforts, and identify constrictions that need to be removed to reduce flooding. The model can help define floodplain zones for improved planning, among other benefits.	4/1/2009		COMPLETE

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

Grant Awarded	"The City of Madison proposes to develop the first phase of an evaluation and prediction model for the upper half of the Yahara Watershed, called Integrated Nowcast and Forecast Operation System (INFOS). This is a real-time, three-dimensional, operational model that can provide information to lake managers to assess water level orders in conjunction with dam operations on the Yahara system, predict flood heights under various scenarios which may assist planning efforts, and identify constrictions that need to be removed to reduce flooding. The model can help define floodplain zones for improved planning, among other benefits.	4/1/2009		COMPLETE
Grant Awarded	"The City of Madison proposes to develop the first phase of an evaluation and prediction model for the upper half of the Yahara Watershed, called Integrated Nowcast and Forecast Operation System (INFOS). This is a real-time, three-dimensional, operational model that can provide information to lake managers to assess water level orders in conjunction with dam operations on the Yahara system, predict flood heights under various scenarios which may assist planning efforts, and identify constrictions that need to be removed to reduce flooding. The model can help define floodplain zones for improved planning, among other benefits.	4/1/2009		COMPLETE
Grant Awarded	"The City of Madison proposes to develop the first phase of an evaluation and prediction model for the upper half of the Yahara Watershed, called Integrated Nowcast and Forecast Operation System (INFOS). This is a real-time, three-dimensional, operational model that can provide information to lake managers to assess water level orders in conjunction with dam operations on the Yahara system, predict flood heights under various scenarios which may assist planning efforts, and identify constrictions that need to be removed to reduce flooding. The model can help define floodplain zones for improved planning, among other benefits.	4/1/2009		COMPLETE
Grant Awarded	"The City of Madison proposes to develop the first phase of an evaluation and prediction model for the upper half of the Yahara Watershed, called Integrated Nowcast and Forecast Operation System (INFOS). This is a real-time, three-dimensional, operational model that can provide information to lake managers to assess water level orders in conjunction with dam operations on the Yahara system, predict flood heights under various scenarios which may assist planning efforts, and identify constrictions that need to be removed to reduce flooding. The model can help define floodplain zones for improved planning, among other benefits.	4/1/2009		COMPLETE

Wisconsin Department of Natural Resources SWIMS Project Summary

Grant Awarded	"The City of Madison proposes to develop the first phase of an evaluation and prediction model for the upper half of the Yahara Watershed, called Integrated Nowcast and Forecast Operation System (INFOS). This is a real-time, three-dimensional, operational model that can provide information to lake managers to assess water level orders in conjunction with dam operations on the Yahara system, predict flood heights under various scenarios which may assist planning efforts, and identify constrictions that need to be removed to reduce flooding. The model can help define floodplain zones for improved planning, among other benefits.	4/1/2009	12/31/2009	COMPLETE
Grant Awarded	"The City of Madison proposes to develop the first phase of an evaluation and prediction model for the upper half of the Yahara Watershed, called Integrated Nowcast and Forecast Operation System (INFOS). This is a real-time, three-dimensional, operational model that can provide information to lake managers to assess water level orders in conjunction with dam operations on the Yahara system, predict flood heights under various scenarios which may assist planning efforts, and identify constrictions that need to be removed to reduce flooding. The model can help define floodplain zones for improved planning, among other benefits.	4/1/2009		COMPLETE
Grant Awarded	"The City of Madison proposes to develop the first phase of an evaluation and prediction model for the upper half of the Yahara Watershed, called Integrated Nowcast and Forecast Operation System (INFOS). This is a real-time, three-dimensional, operational model that can provide information to lake managers to assess water level orders in conjunction with dam operations on the Yahara system, predict flood heights under various scenarios which may assist planning efforts, and identify constrictions that need to be removed to reduce flooding. The model can help define floodplain zones for improved planning, among other benefits.	4/1/2009		COMPLETE
Grant Awarded	"The City of Madison proposes to develop the first phase of an evaluation and prediction model for the upper half of the Yahara Watershed, called Integrated Nowcast and Forecast Operation System (INFOS). This is a real-time, three-dimensional, operational model that can provide information to lake managers to assess water level orders in conjunction with dam operations on the Yahara system, predict flood heights under various scenarios which may assist planning efforts, and identify constrictions that need to be removed to reduce flooding. The model can help define floodplain zones for improved planning, among other benefits.	4/1/2009		COMPLETE

Monitoring Stations

Wisconsin Department of Natural Resources SWIMS Project Summary

Station ID	Name	Comments	
Assessment Units			
WBIC	Segment	Local Name	Official Name
780650	1	Tenney Park Lagoon	Tenney Park Lagoon
783750	1	Stricker Pond	Strickers Pond
798300	3	Yahara River	Yahara River
802800	1	Door Creek	Door Creek
803700	1	Lake Waubesa	Lake Waubesa
804000	1	Upper Mud Lake	Upper Mud Lake
804100	1	Unnamed Creek Trib To Upper Mud Lake	Unnamed
804200	1	Nine Springs Creek	Nine Springs Creek
804600	1	Monona Lake	Lake Monona
804600	2	Brittingham Beach	Lake Monona
804600	3	Esther Park Beach	Lake Monona
804600	5	Hudson Park Beach	Lake Monona
804600	6	Bernies Beach	Lake Monona
804600	7	Olbrich Park Beach	Lake Monona
804600	8	Olin Park Beach	Lake Monona
804600	9	BB Clark Beach, Monona Lake	Lake Monona
804700	1	Murphy (Wingra) Creek	Wingra Creek
805000	1	Lake Wingra	Lake Wingra
805000	2	Vilas Park Beach	Lake Wingra
805100	1	Starkweather Creek	Starkweather Creek
805200	1	W. Br. Starkweather Creek (Airport Road Creek)	Unnamed
805400	1	Mendota Lake	Lake Mendota
805400	2	James Madison Park Beach	Lake Mendota
805400	3	Marshall Park Beach	Lake Mendota
805400	39	Spring Harbor Beach	Lake Mendota
805400	40	Hoofers Dock Beach, Lake Mendota	Lake Mendota
805400	41	Memorial Union Pier Beach, Lake Mendota	Lake Mendota
805400	42	Tenny Park Beach, Lake Mendota	Lake Mendota
805400	43	Warner Park Beach, Lake Mendota	Lake Mendota
806500	1	Cherokee Lake	Cherokee Lake
872800	1	Morse Pond	Morse Pond
3000089	1	Local Water	Unnamed

Wisconsin Department of Natural Resources SWIMS Project Summary

3000513	1	Odana Pond	Unnamed
5574166	1	Local Water	Unnamed
5574959	1	Local Water	Unnamed
5575000	1	Local Water	Unnamed
5575371	1	Local Water	Unnamed
5575427	1	Local Water	Unnamed
5575462	1	Local Water	Unnamed
5575484	1	Local Water	Unnamed
5575502	1	Local Water	Unnamed
5575570	1	Local Water	Unnamed

Lab Account Codes

Account Code	Description	Start Date	End Date
--------------	-------------	------------	----------

Forms

Form Code	Form Name
-----------	-----------

Methods

Method Code	Method Description
-------------	--------------------

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
------------	--------	----------	------------	--------------

Documents

Title	Description	Author	Published	Comments
Hydrologic & Hydraulic Modeling Yahara River Inputs to Lake Mendota		City of Madison Engineering		

Budget

Combined Budgets:

Combined WSLH:

Combined Total: \$0.00

Funding

Organization	Source	Type	Amount	Start Date	End Date
--------------	--------	------	--------	------------	----------