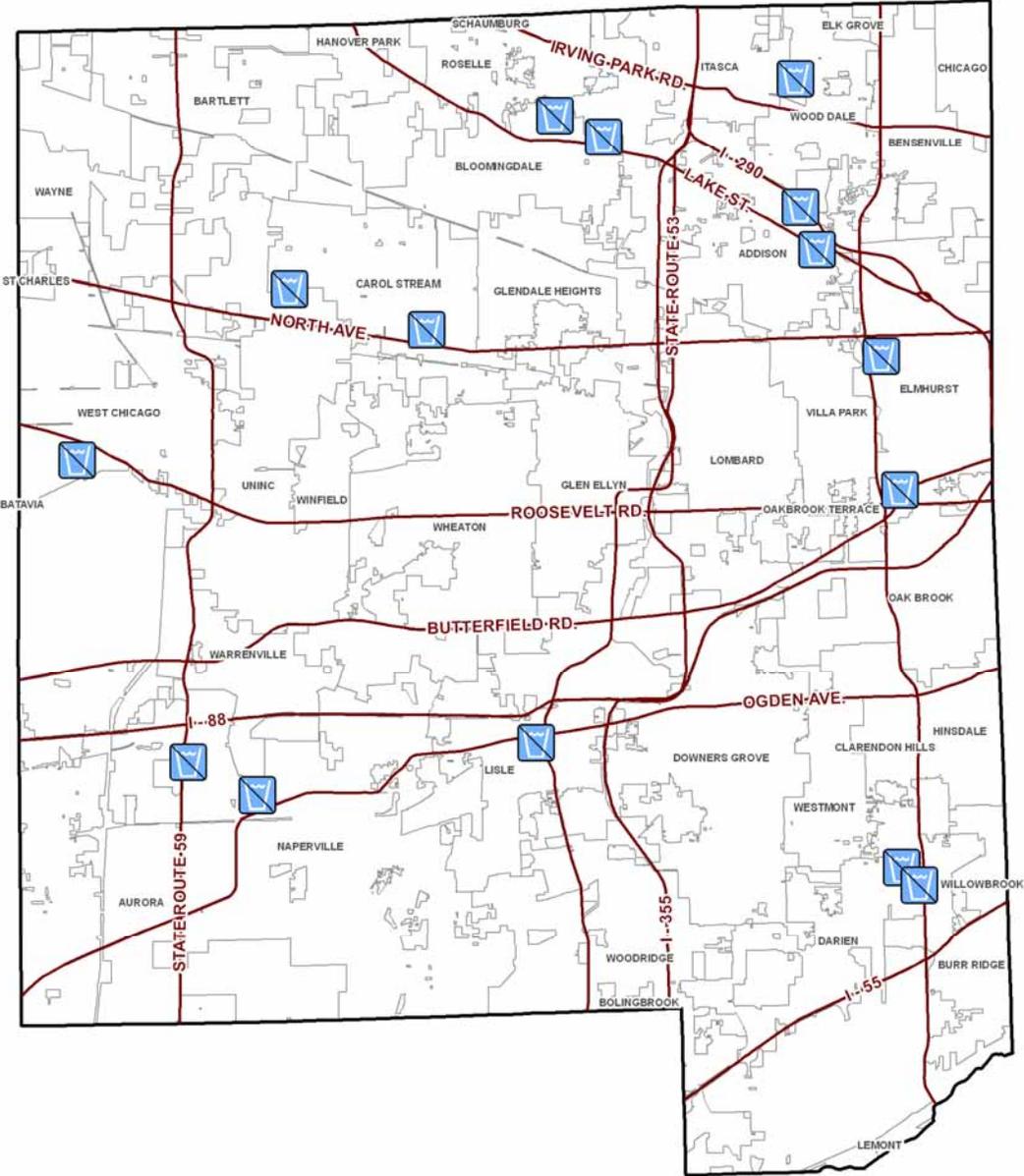


# DuPage County Flood Control Operations



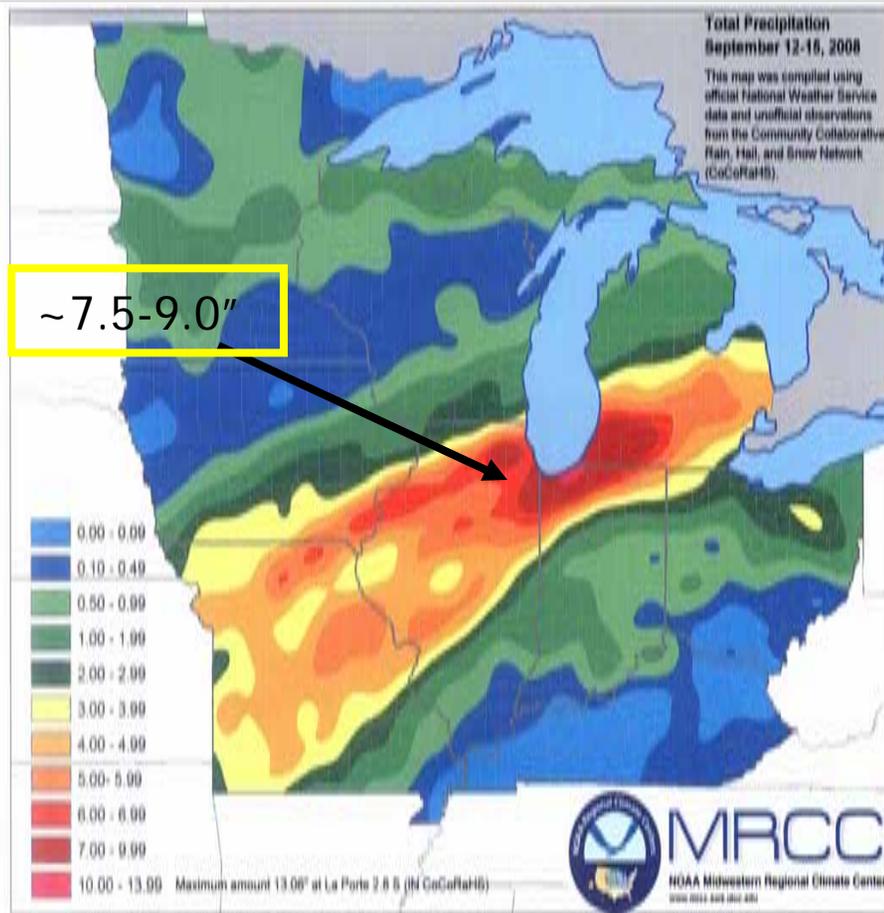
# Countywide Stormwater Facilities



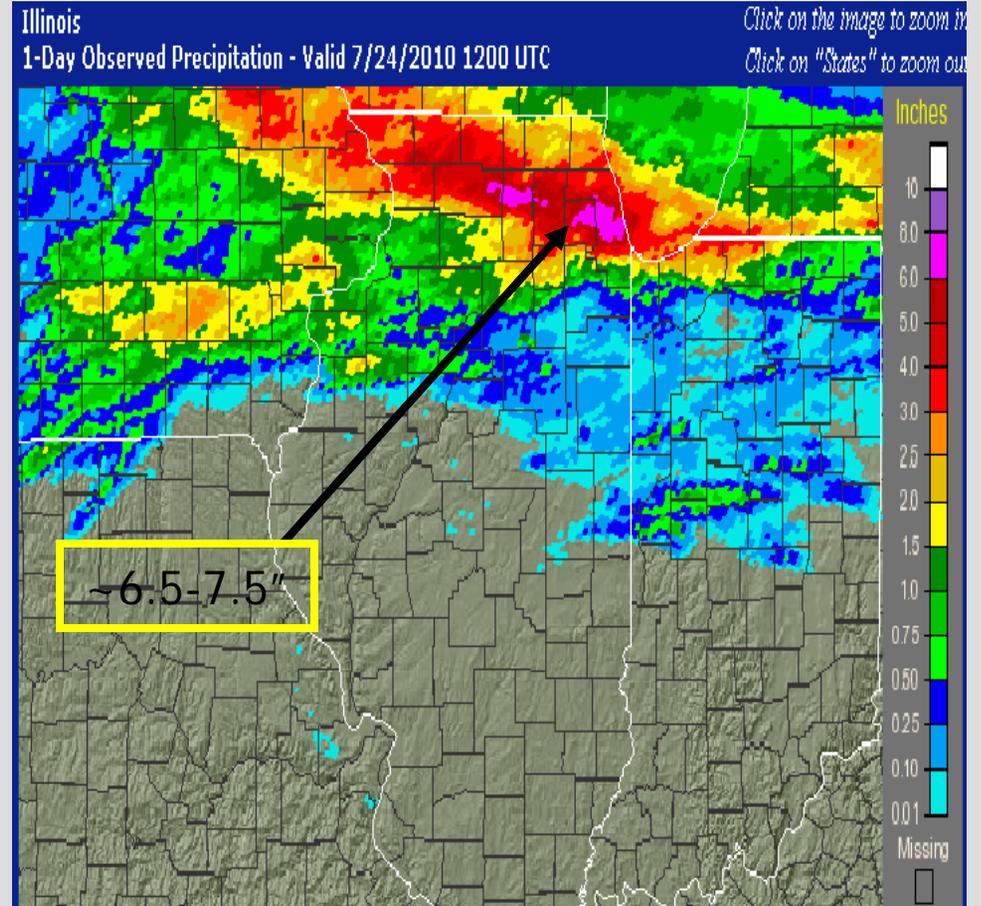
# Rainfall Data

## -Event Comparison

September 2008

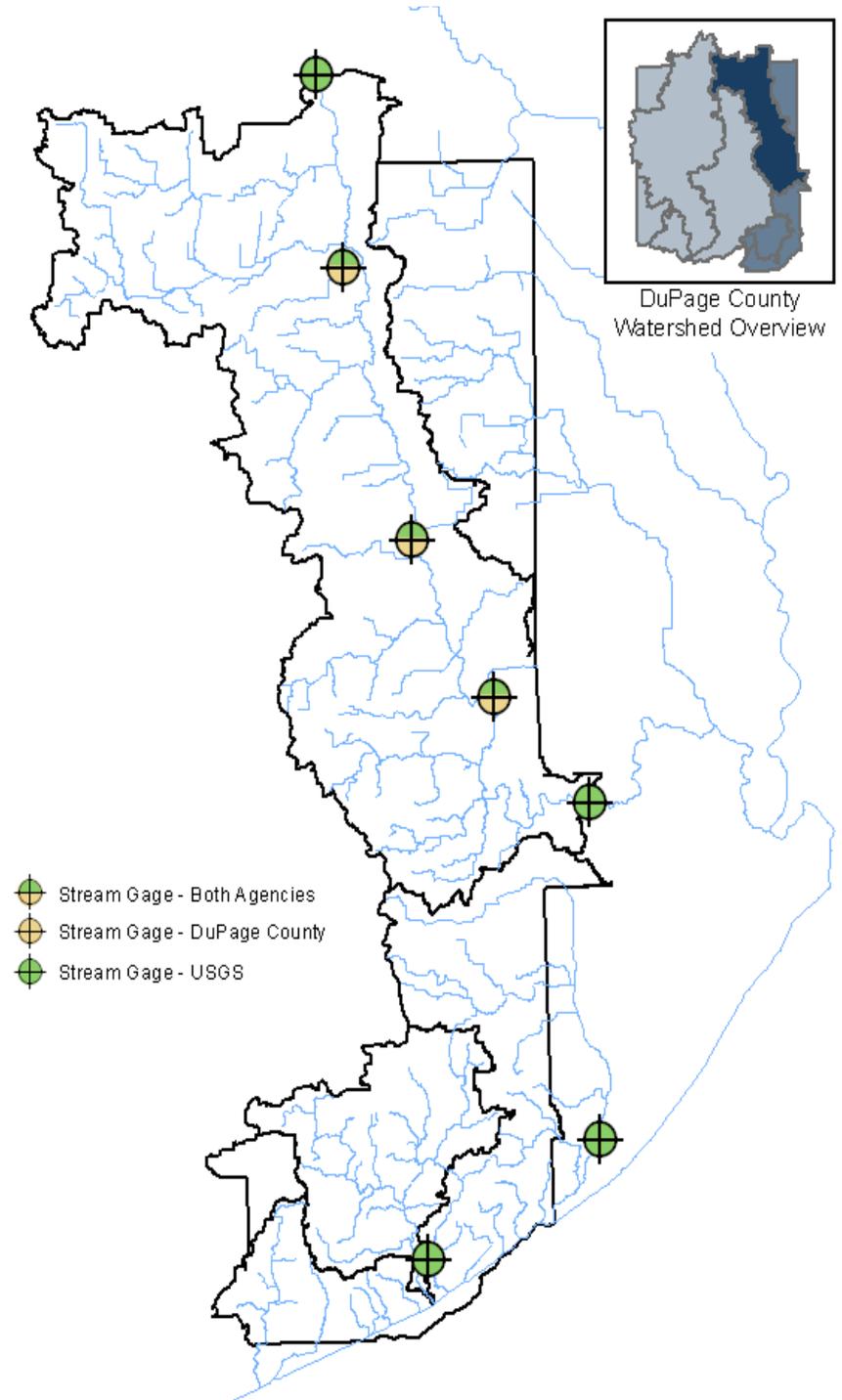


July 2010



# Salt Creek Stream Gages

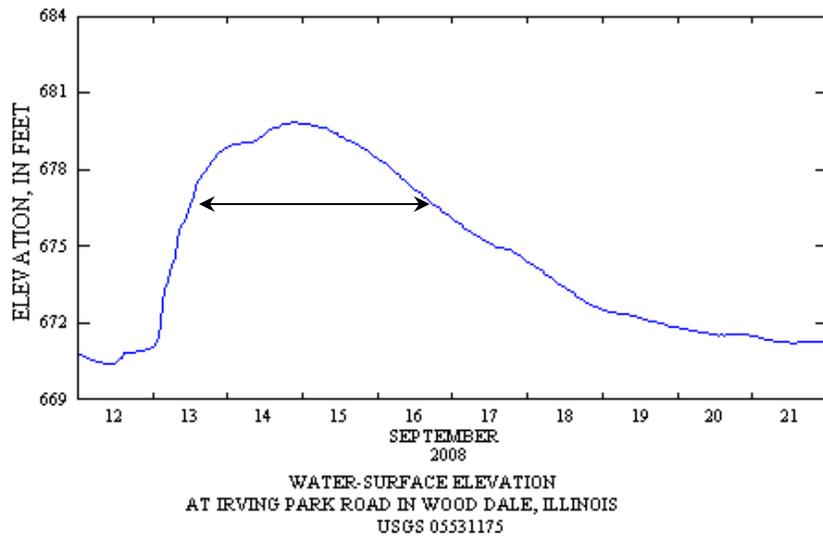
-  USGS Stream Gage Location
-  DuPage County Stream Gage Location
-  DuPage & USGS Stream Gage Location



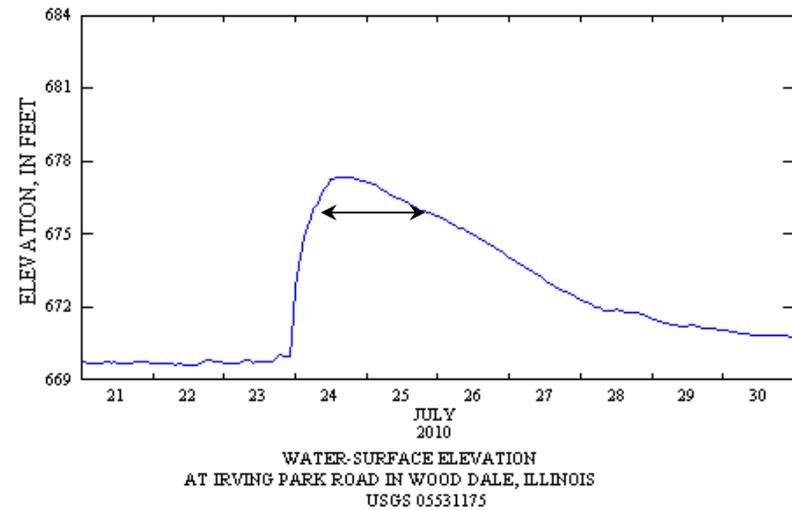
# Hydrograph Comparisons

-Salt Creek at Irving Park Road

September 2008



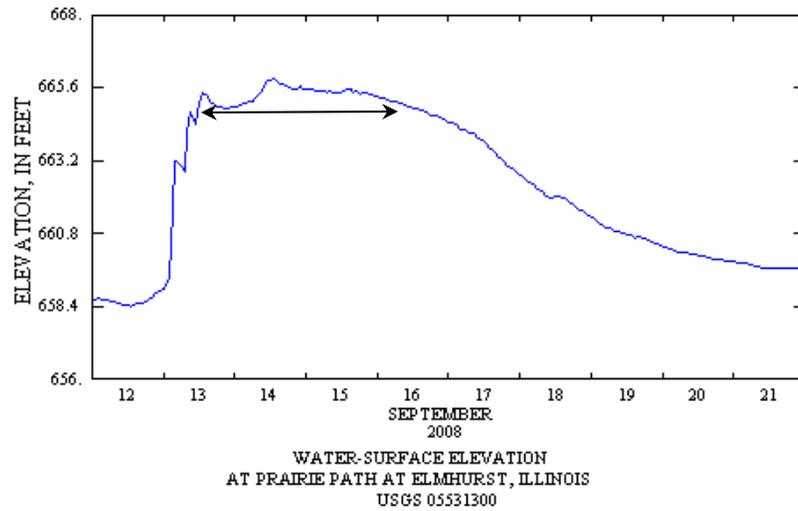
July 2010



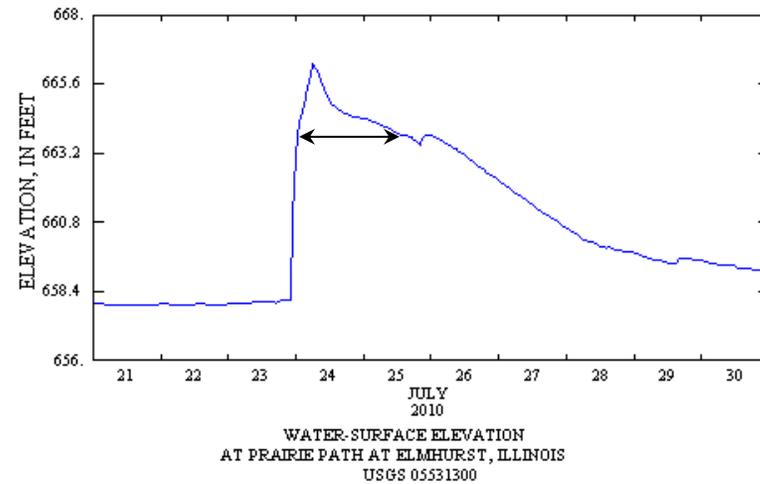
# Hydrograph Comparisons

-Salt Creek at Prairie Path

September 2008



July 2010



# Public Notification

- Community Notification
  - Cooperation with OEM on Public Notification
  - Communication with Municipalities on operational decisions
- Webpage Updates
  - Posting Operational Decisions
  - New DPC Web Format – Spring 2011
- After Flood Reports
  - Submitted to Communities & OEM



## Overview

Thank you for visiting Stormwater Management's rain and stream gage site. These pages provide access to real-time water resource data collected throughout the county. There are currently 66 rain and 25 active stream gages throughout DuPage County. Each gage typically records at 15 to 60 minute intervals and then results are transmitted back to data stores located on-site. These recording and transmission times may be more frequent during critical events or when otherwise necessary.

## USGS Cooperation

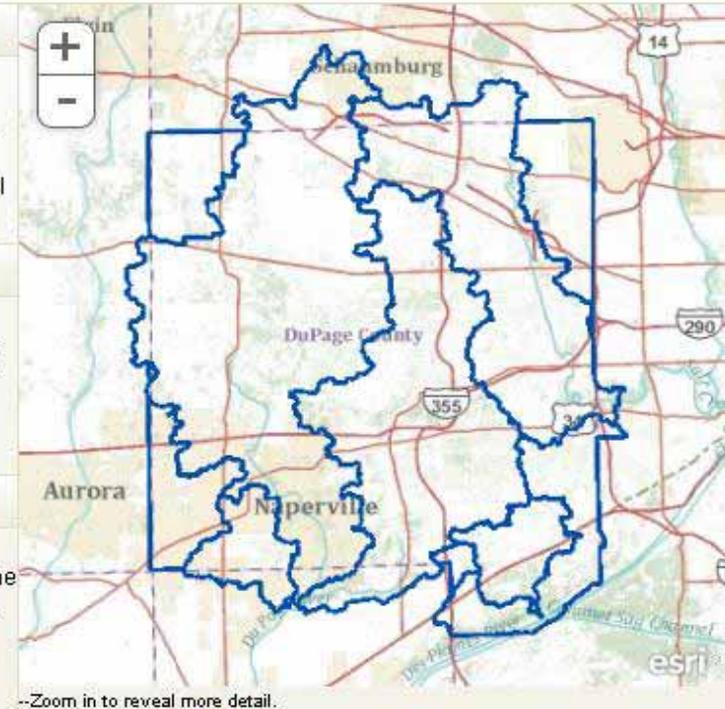
DuPage County works together with the [United States Geological Survey](#) to provide real-time data. Many of the precipitation and stream gages within DuPage County are monitored by the USGS. Real-time data is transmitted from a USGS recording location to the County where it's presented on the following webpages.

[Click here](#) to view (by county) all gages monitored by the USGS.

## Watershed Selection

Please use the following drop down menu to select a specific DuPage County watershed. Detailed information regarding your selected watershed will be displayed after the jump. To the right is a reference map of DuPage County and the major watersheds that are located within. The Fox and DuPage River watersheds have been grouped together with the West Branch DuPage River while Des Plaines River and Sawmill Creek have been added to Salt Creek.

Choose a Watershed



## Flood Control Facilities

Please use the following drop down menu to select a specific flood control facility. Detailed information regarding your selected facility will be displayed after the jump.

Choose a Facility

## Provisional Data

Data provided herein -- including stream and precipitation levels -- are preliminary and have not received final approval. Most data relayed by satellite or other telemetry have received little to no review. Inaccuracies in the data may be present because of instrument malfunctions or physical changes at the gage location.

Data users are cautioned to consider the provisional nature of the information. Information concerning the accuracy and appropriate uses of these data may be obtained from contacting the division manager.



### Watershed Overview

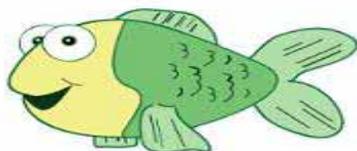
This is the summary paragraph place holder for East Branch DuPage River.

#### Cameras

Please use the drop down menu to visit one of our live web cameras located throughout the Salt Creek watershed. If camera image does not display after selection you will need to refresh the webpage.

\*Please note that the imagery provided herein is preliminary. Inaccuracies in the data may be present because of instrument malfunctions or physical changes at the gage location.

Choose a Camera



Please select a camera view.

#### Gage Totals

\*Please note that the data provided herein are preliminary and have not received final approval. Most data relayed by satellite or other telemetry have received little to no review. Inaccuracies in the data may be present because of instrument malfunctions or physical changes at the gage location.

Table 1: Rain Gages

Location	Inches
RG1B - O'Hare Airport	0.00
RG12 - DPC Marionbrook Rain Level	0.00
RG14 - Elmhurst Quarry Rain Level	0.00
RG15 - Argonne Labs Rain Level	0.00
RG28 - Addison Treatment Plant	0.00
RG29 - Wood Dale Treatment	0.00
RG45 - Busse Woods Rain Level	0.00
RG50 - Lake St. Reservoir Rain Level	0.00
RG64 - Oak Brook Rain Level	0.00
RG70 - Schaumburg Public Works	0.00
RG85 - Westmont Water Tower	0.00

Table 2: Stream Gages

Stream Gage	WSEL
SG4 - Diversion Structures	661.36
SG5 - Harger Road	648.81
SG2 - Irving Park Road	670.18

\*\*WSEL - Water Surface Elevation

Table 3: USGS Monitored Stream Gages

Stream Gage Description
SG2 - Salt Creek at Wood Dale
SG4 - Salt Creek at Elmhurst
SG5 - Salt Creek at 22nd Street in Oak Brook
SG11 - Salt Creek near Elk Grove Village
SG14 - Salt Creek Western Springs
SG15 - Flagg Creek near Willow Springs
SG16 - Sawmill Creek near Lemont

\*Click on stream gage to see further information, please note link will open a new browser window and take you away from the DuPage County website.

#### Flood Forecast Discussion

DISCLAIMER

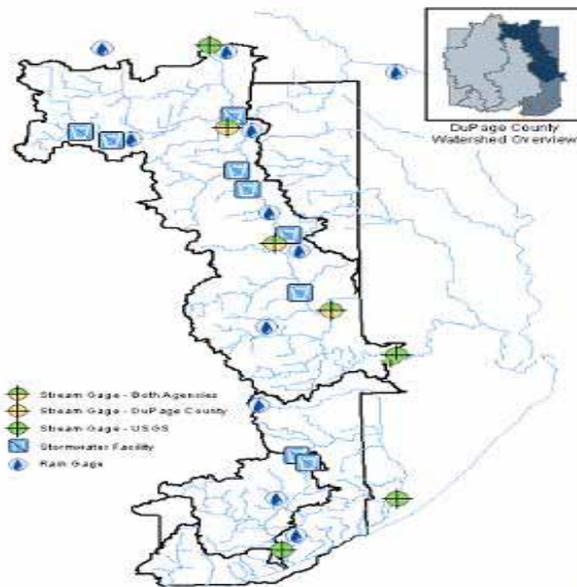
\*\*\*\*\*DISCLAIMER\*\*\*\*\*

IRVING PARK RD

#### Salt Creek Watershed Map

To view a flood control facility select by using the drop down menu or by clicking on a blue icon in the map below.

Choose a Facility



\*\*Mouse over each Stormwater Facility icon to reveal name then click to see further information

# Salt Creek Webpage

- Facilities
- Cameras
  - At Facilities
  - Along Salt Creek
- Rain Gages
- Stream Gages (SCADA)
  - Diversion Structure (EQ)
  - Harger Road
  - Irving Park Road
- Forecast Discussion
  - Updated by Staff

# Elmhurst Quarry



# Elmhurst Quarry – Diversion Structure



# Elmhurst Quarry

## Fixed Weir Overtopping

September 2008



July 2010





# Elmhurst Quarry Page

## Elmhurst Quarry

The Elmhurst Quarry Flood Control Facility is an 8,300-acre-foot flood control facility on which construction began in March of 1993. The reservoir takes advantage of the old Elmhurst Chicago Stone Quarry located south of North Ave. on Illinois Route 83 in Elmhurst. The two lobes of the quarry are separated by a rock high wall which supports West Ave. There is a "keyway" in the wall which allows diverted flood water to fill both lobes. The East Lobe is the deeper of the two lobes with an average depth of 200 feet.

When Salt Creek water elevations near flood stage, excess flood water begins spilling into a diversion channel which conveys the water to a drop shaft. Water then falls down the drop shaft into a 400 ft. long tunnel which carries the water under Rte 83 from west to east and into the west lobe of the quarry. The water is then held in the quarry until in creek water levels have receded to safe levels. The water is then pumped back to Salt Creek at safe flow rates.

### Current Operating Conditions

#### Diversion Structure

Description	Reading
Sluice Gate (percent open)	0.00%
Diversion Structure Flow Rate	0.00 (cfs)

#### West Lobe

Description	Reading
Pump Station Discharge Flow	0.00

Pump ID	Status
West Lobe Pump DWP-2 ON	OFF
West Lobe Pump SWP-3 ON	OFF
West Lobe Pump SWP-4 ON	OFF
West Lobe Pump SWP-5 ON	OFF
West Lobe Pump SWP-6 ON	OFF

#### East Lobe

Pump ID	Status
East Lobe Pump DWP-1 ON	OFF
East Lobe Pump SWP-1 ON	OFF
East Lobe Pump SWP-2 ON	OFF

### Cameras

Please use the drop down menu to visit one of our six live web cameras located throughout the Salt Creek watershed.

\*Please refresh webpage if camera image does not display after selection.

Elmhurst Quarry - Aeration Facility

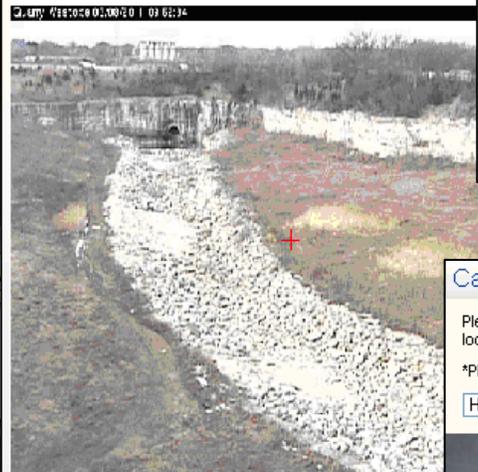


This camera rotates between two images; one image is the step aerator where water will cascade down the steps during pump back operations. The other image is the staff gage at the aeration bridge. When Salt Creek elevation at this location reach 667.5 water will begin to spill over the fixed weir into the Quarry.

### Cameras

Please use the drop down menu to visit one of our six live web cameras located throughout the Salt Creek watershed.

\*Please refresh webpage if camera image does not display after selection.



This camera rotates between two images; the first image is taken from under Route 83 into the west lobe. The other image is taken from the way through the west lobe. During operation water can be seen either from the tunnel or through the spill way.

### Cameras

Please use the drop down menu to visit one of our six live web cameras located throughout the Salt Creek watershed.

\*Please refresh webpage if camera image does not display after selection.

Elmhurst Quarry - Diversion Structure



This camera rotates between two images; one image shows a staff gage on the debris rack. When Salt Creek elevations reach 667.5 at this location water will begin to spill over the fixed weir into the Quarry. The other image shows the fixed weir at the diversion structure.

### Cameras

Please use the drop down menu to visit one of our six live web cameras located throughout the Salt Creek watershed.

\*Please refresh webpage if camera image does not display after selection.

Harger Road - Stream Gage



Camera shows a view of the Harger Road stream gage which is located in Oakbrook downstream of the Quarry. When Salt Creek elevations reach 654.0 stormwater staff will initiate sluice gate operations at the Elmhurst Quarry.

## Facility Tour

To view picture tour click here



(Click location to receive more detailed information and a photo. Highlighted locations still to come.)

# Wood Dale-Itasca Reservoir





# Wood Dale-Itasca Page

## Wood Dale - Itasca Flood Control Facility

The Wood Dale - Itasca Flood Control Facility was excavated at the confluence of Springbrook Tributary and Salt Creek in the northeast portion of the county. The facility is located south of Thomdale Avenue, west of Wood Dale Road, north of Irving Park Road and east of Prospect Avenue. The facility is made up of four reservoir cells. Three of the cells are gravity drained and provide 325 acre-feet of stormwater storage. The gravity reservoirs are located along the west side of Salt Creek. The larger pump evacuated cell is located along the east side of Salt Creek and provides 1,425 acre-feet of stormwater storage. The entire facility provides 1,750 acre-feet of storage for the Salt Creek Watershed.

Floodwater enters the pump evacuated reservoir through a diversion weir made up of series of four sluice gates located at the end of School Street in Wood Dale. During flood events the sluice gates are opened allowing stormwater to flow down the spillway into the reservoir. The stormwater is temporarily stored until flood levels along Salt Creek have receded. Stormwater is then pumped back to Salt Creek through a pump station and discharge channel.

Construction of the facility began in the early 1980's. Construction progressed through eight separate phases and was completed in 2002. The Wood Dale - Itasca Flood Control Facility provides flood protection to the downstream communities of Wood Dale, Addison, Villa Park, Elmhurst and Unincorporated DuPage County.

## USGS Provisional Inundation Map

Click [here](#) to view the USGS provisional inundation map for Salt Creek at Wood Dale, IL. Following this link will take you away from this site and open a new browser window.

## Current Operating Conditions

### Gate Status

Gate ID	Percent Open
Gate 1	0.0%
Gate 2	0.0%
Gate 3	0.0%
Gate 4	0.0%

### Pump Status

Pump ID	Status
Well Pump	On
Nuisance Pump	Off
Stormwater Water Pump 1	Off
Stormwater Water Pump 2	Off

### Water Surface Elevations

Description	Elevation
Salt Creek at the WD-IT Spillway	670.00
WD-IT Reservoir Level	660.00
Salt Creek at Irving Park Rd.	640.00

\*WD-IT - Wood Dale - Itasca Flood Control Facility

## Facility Tour

To view picture tour click [here](#)



Wood Dale - Itasca #1



This camera rotates between three images. The first image is the Wood Dale - Itasca Reservoir overlooking the facility southward toward the intake spill way. Another image is a close-up view of the intake spill way and the reservoir gates. The final image looks westerly along the facility bike path. When the facility is in operation, water can be seen entering through the gates.

Wood Dale - Itasca #3



Wood Dale Itasca camera 3.

Wood Dale - Itasca #2



Wood Dale Itasca camera 2.

## Cameras

Please use the drop down menu to visit one of our six live web cameras located throughout the Salt Creek watershed.

\*Please refresh webpage if camera image does not display after selection

Irving Park Road - Stream Gage



Camera shows views of the Irving Park Road stream gage which is located just downstream of the Wood Dale - Itasca Reservoir. When Salt Creek elevations reach 676.0 at this location operation of the Wood Dale - Itasca Reservoir is initiated.



# West Branch Webpage

## Watershed Overview

the summary paragraph placeholder for East Branch DuPage River.

## Facilities

use the drop down menu to visit one of our live web cameras located at the Dam. If camera image does not display after selection you will need to refresh the webpage.

use note that the imagery provided herein is preliminary. Inaccuracies in data may be present because of instrument malfunctions or physical changes at the gage location.

Full Dam - Gates



camera typically shows three views of the upstream face of the dam. The image will show all three gates and the majority of the dam structure. The second image shows the staff gage mounted on the east wing wall. This staff is used for viewing the water surface elevations during times of operation (operating plan noted on page). The final view shows a gage mounted on east side of the dam structure which corresponds with the gate positions. An eight foot mark would correspond to 100% open position.

## Rain Gage Totals

use note that the data provided herein are preliminary and have not received final approval. Most data relayed by satellite or other telemetry have varied little to no review. Inaccuracies in the data may be present because of instrument malfunctions or physical changes at the gage location.

### 1: Rain Gages

Location	Inches
1 - DuPage Co. Airport Rain Level	0.00
11 - Fermi Labs Rain Level	0.00
14 - Elgin Rain Level	0.00
11 - Naperville Police Dept. Rain Level	0.00
12 - North Wheaton Rain Level	0.00
14 - South Wheaton Rain Level	0.00
16 - Springbrook Treatment Plant	0.00
10 - Bartlett Treatment Plant	0.00
14 - Carol Stream Treatment Plant	0.00
18b - Naperville near McDowell Dam	0.00
16 - Bladwell Forest Preserve	0.00
17 - Naperville Township Hwy Garage	0.00

### 2: Stream Gage

Stream Gage	WSEL
1 - Stream Level @ Dam	674.96
1 - Naperville River Walk	663.10

### 3: USGS Monitored Stream Gages

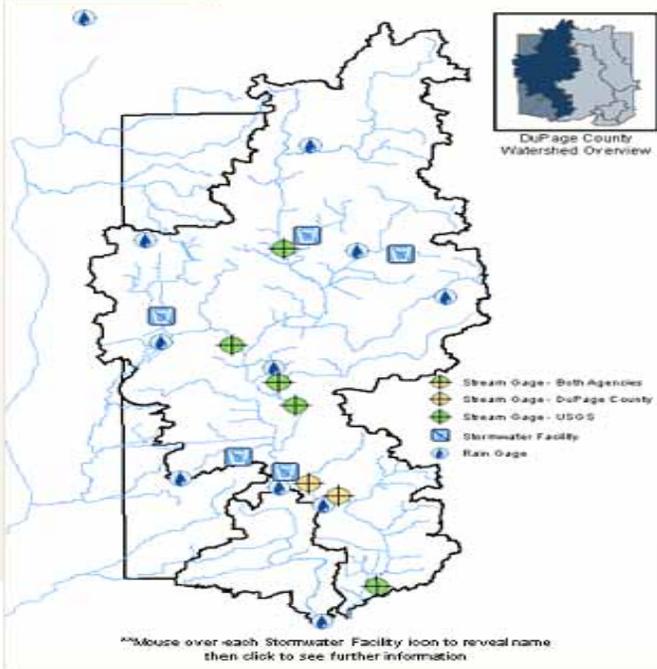
Stream Gage Description
1 - West Branch near West Chicago
1 - Kress Creek at West Chicago
1 - Spring Brook at 87th Street near Naperville
1 - West Branch near Warrenville
1 - West Branch near Naperville

click on stream gage to see further information, please note link will open a

## West Branch DuPage River Watershed Map

To view a flood control facility select by using the drop down menu or by clicking on a blue icon in the map below.

Choose a Facility



- Facilities
- Cameras
- Rain Gages
- Stream Gages (SCADA)
  - Fawell Dam
  - Naperville River Walk
  - USGS Gages

# Fawell Dam





## Fawell Dam

The Fawell Dam is located on the West Branch of the DuPage River in the McDowell Grove Forest Preserve upstream of the City of Naperville. It was constructed between 1969 and 1971 by the Illinois Department of Transportation Division of Water Resources (now known as the Illinois Department of Natural Resources/Office of Water Resources). The purpose of the dam was to store floodwaters on the West Branch and thus reduce flood heights and flood damages in downtown Naperville. Moveable (operable) gates are present on the spillway (outlet) of the dam. The IDNR/OWR owned and maintained the dam until 1998, when ownership and maintenance responsibilities were transferred to DuPage County.

The Dam is approximately 26 feet high and has a crest length of approximately 1480 feet. The outlet works consist of three 10 feet by 10 feet slide gates and similarly sized concrete box culverts passing through the dam. The slide gates are opened/closed as a function of reservoir water levels upstream of the dam during storm events. The County recently updated two cameras located at the dam. This allows remote monitoring of water surface elevations as well as monitoring for security purposes.

[Saddle Dike Piezometer Page](#)

### Current Operating Conditions

#### Gate Status

Gate ID	Percent Open
Gate 1	99.6%
Gate 2	99.8%
Gate 3	99.2%

#### Water Surface Elevations

Description	Elevation
Waukegan Level	687.30
Stream Level @ Dam	674.98
Naperville River Walk	663.10

#### Fawell Dam Operating Plan

Water Surface Elevation	Percent Open - All Gates
679.24	40%
686.74	50%
687.74	60%
688.74	75%
690.74	100%

### Facility Tour

[To view picture tour click here](#)



### Cameras

Please use the drop down menu to visit one of our live web cameras located at Fawell Dam.

\*Please refresh webpage if camera image does not display after selection.

Fawell Dam - Gates



This camera typically shows three views of the first image will show all three gates and the majority of the dam structure. The second image shows the staff gage mounted on the east wing all. This staff gage is used for viewing the water surface elevation during times of operation (see operating plan noted on page). The final view shows a gage mounted on the west side of the dam structure which corresponds with the gate positions. The ten foot mark would correspond to 100% open position.

### Cameras

Please use the drop down menu to visit one of our live web cameras located at Fawell Dam.

\*Please refresh webpage if camera image does not display after selection.

Fawell Dam - Wing Wall



Camera views gage mounted on the upstream wing wall to assist in monitoring water elevation and debris buildup on the gates.

# Fawell Page

### Cameras

Please use the drop down menu to visit one of our live web cameras located at Fawell Dam.

\*Please refresh webpage if camera image does not display after selection.

Fawell Dam - Gates



This camera typically shows three views of the upstream face of the dam. The first image will show all three gates and the majority of the dam structure. The second image shows the staff gage mounted on the east wing all. This staff gage is used for viewing the water surface elevations during times of operation (see operating plan noted on page). The final view shows a gage mounted on the west side of the dam structure which corresponds with the gate positions. The ten foot mark would correspond to 100% open position.

### Cameras

Please use the drop down menu to visit one of our live web cameras located at Fawell Dam.

\*Please refresh webpage if camera image does not display after selection.

Fawell Dam - Gates



This camera typically shows three views of the upstream face of the dam. The first image will show all three gates and the majority of the dam structure. The second image shows the staff gage mounted on the east wing all. This staff gage is used for viewing the water surface elevations during times of operation (see operating plan noted on page). The final view shows a gage mounted on the west side of the dam structure which corresponds with the gate positions. The ten foot mark would correspond to 100% open position.

# GenScn - Salt Creek Watershed

Near real-time system for flood-control purposes

The screenshot displays the GenScn: realtime software interface. The main window features a map of the Salt Creek Watershed with a yellow highlighted area and several green location markers. The interface includes a menu bar (File, Analysis, Map, Locations, Scenarios, Constituents, Time Series, Help) and a toolbar with various navigation and analysis tools.

**Scenarios**  
0 of 14 | All | None  
 All  Location

- CLOUD
- COMPUTED
- DATAIN
- OBSERVED
- SCEN0
- SCEN1
- SCEN2
- SCEN3

Buttons: Activate, Delete, New

**Constituents**  
0 of 11 | All | None  
 All  Location

- CLDC
- DEWP
- ELEV
- EVAP
- FLOW
- ISUR
- PERO
- PREC
- SRAD
- TEMP

**Time Series**  
+ - [Tools] [Navigation] [Save] [Print] [Edit] 0 of 74

Type	Ind	DSN	Scenario	Location
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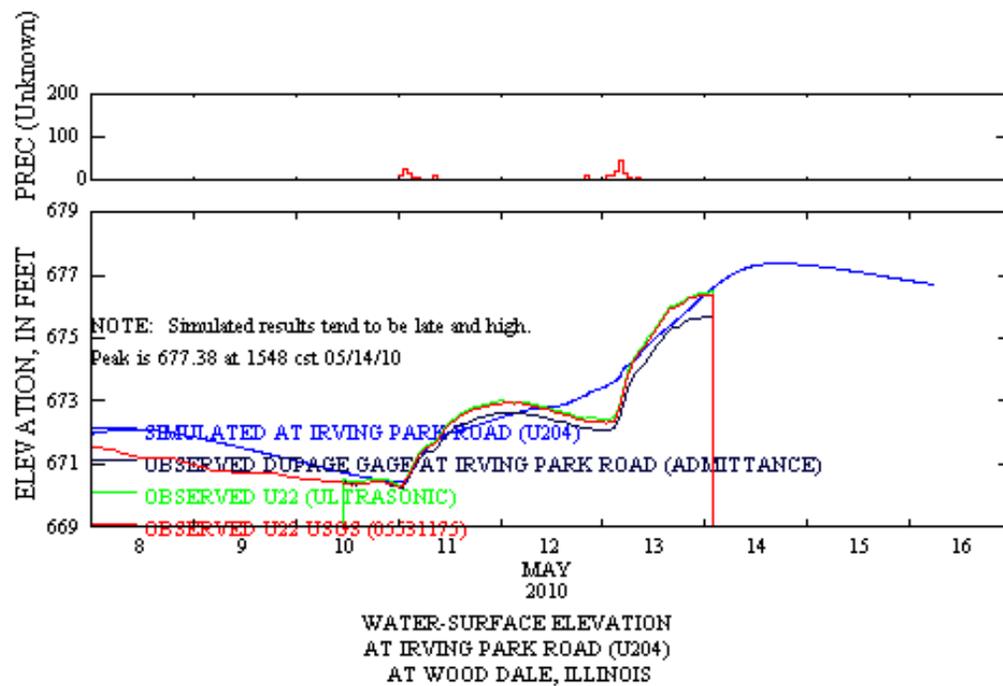
**Dates**  
No Dates are available until Timeseries are Selected

**Analysis**  
[Bar Chart] [Table] [Clock] [Scales] [Wastewater] [Map] [Pencil] [Line] [Train]

**Legend** | **Location**

IDLOCN	NAME
DUPAGEAP	Du Page Cnty Airport nr St. Charles
BOLINGBR	Bolingbrook Wastewater Treatmnt Facility
WBRANCH	West Br. Du Page River nr Naperville
NATLACCL	National Accelerator Lab (FERMI)
ELGIN	Elgin Wastewater Treatment Facility
ADDISON	Addison Wastewater Treatment Facility
NAPERMUN	Naperville Municipal Building
WHEATONM	Wheaton Water Department

# Flood Forecast Simulation Irving Park Road



# Irving Park Road Inundation Map

USGS - Illinois Flood Hazards Program - Salt Creek at Wood Dale, Illinois - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://il.water.usgs.gov/ifhp/dupage/

Most Visited Getting Started Latest Headlines Customize Links Free Hotmail Windows Marketplace Windows Media Windows

Wood Dale - Itasca Flood Control Facility USGS - Illinois Flood Hazards Pro...



USGS Home  
Contact USGS  
Search USGS

## Salt Creek at Wood Dale, IL -- Provisional Inundation Map Subject to Revision

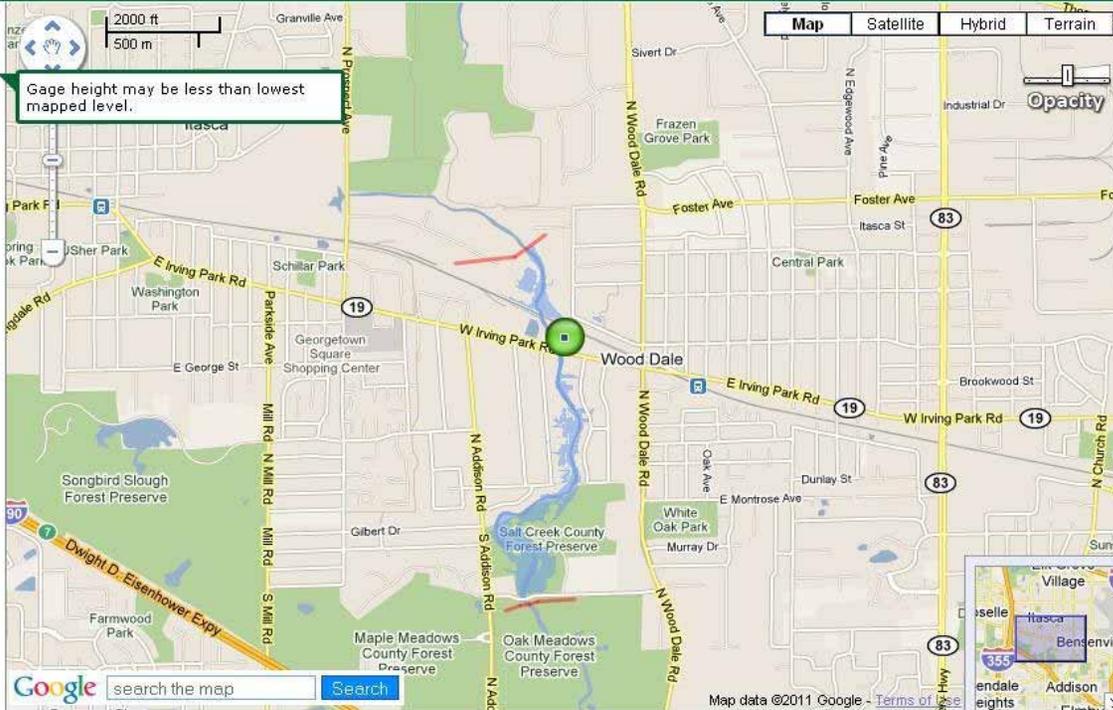
### Elevation & Gage Height

- 674.0 (11.0)
- 674.5 (11.5)
- 675.0 (12.0)
- 675.5 (12.5)
- 676.0 (13.0)
- 676.5 (13.5)
- 677.0 (14.0)
- 677.5 (14.5)
- 678.0 (15.0)
- 678.5 (15.5)
- 679.0 (16.0)
- 679.5 (16.5)
- 680.0 (17.0)
- 680.5 (17.5)

### NWS Precip Estimations

- 1 Hour
- Storm Total  
(zoom out to view)

Disclaimer



This site is operated in cooperation with the Du Page County, Illinois Department of Economic Development & Planning

### Explanation

- Salt Creek at Wood Dale, IL
- Extent of Study
- Other Inundation Mapping Gages

### Gage Data

Hydrograph **Cam 1** Cam 2



Most Recent Gage Height: 8.08 ft.  
Date: 2011-02-25 08:20



<http://www.co.dupage.il.us/>

– New webpage is scheduled to be live later this spring.

- Questions?