Water-Data Report 2011

04092677 GRAND CALUMET RIVER AT INDUSTRIAL HWY AT GARY, IN

Lake Michigan Basin

LOCATION.--Lat 41°36′28″, long 87°23′37″ referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.6, T.36 N., R.8 W., Lake County, IN, Hydrologic Unit 04040001, on left bank, 30 feet upstream of U.S. 12 (Industrial Highway), 100 feet streamward of the centerline of Interstate 90, 2,000 feet downstream of Norfolk and Western railroad bridge, 6,000 feet southeast of Gary Airport terminal.

DRAINAGE AREA.--Indeterminate.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1991 to September 1994, (gage heights only), October 1994 to May 2001, December 2001 to current year.

GAGE.--Water-stage recorder and Acoustic Doppler Velocity Meter. Datum of gage is 580.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Discharge is primarily from industrial and city effluent.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 670 (estimated) ft^3/s, Apr. 29, gage height, 4.74 ft Jul. 01.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 04092677, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/04092677.2011.pdf

04092677 GRAND CALUMET RIVER AT INDUSTRIAL HWY AT GARY, IN—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

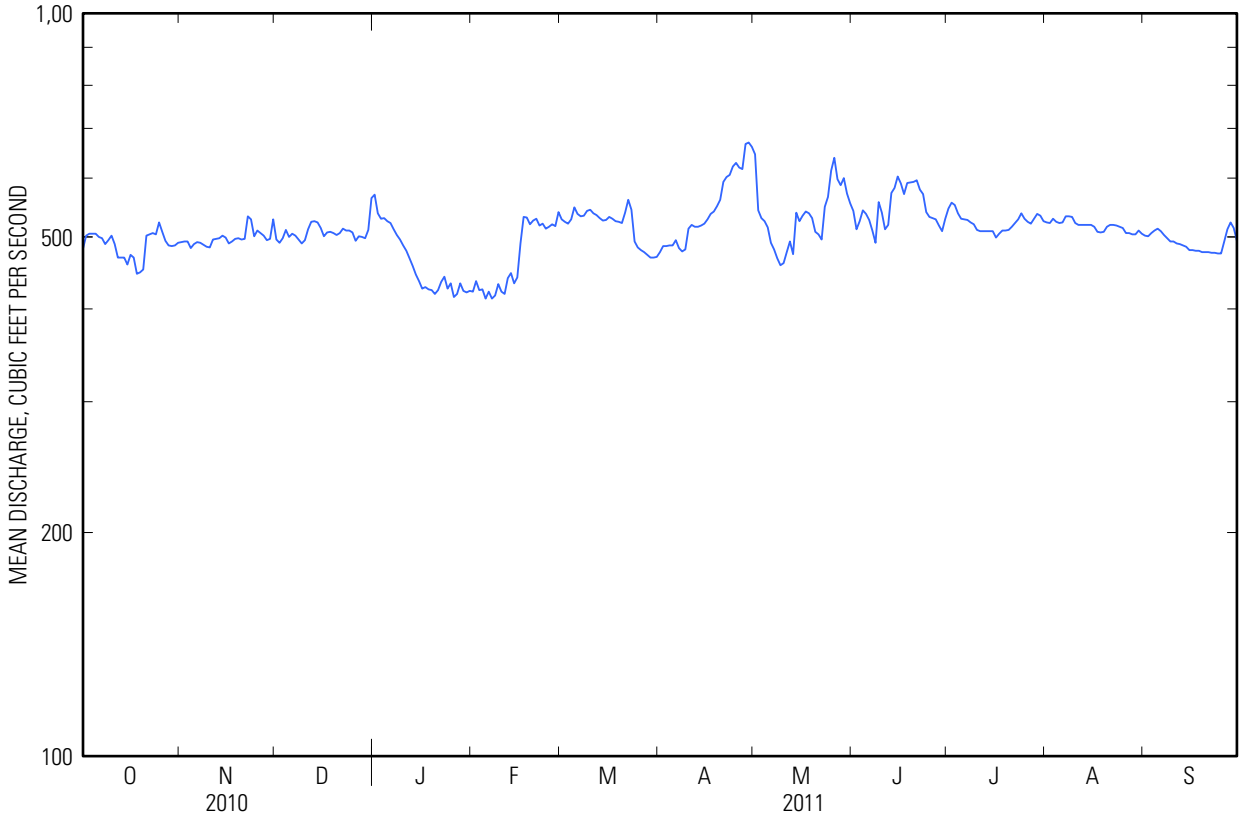
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e482	492	496	570	e422	e528	e477	e646	e542	e546	e523	e502
2	e502	493	491	538	e436	e524	e486	e543	e512	e556	e522	e501
3	e505	493	498	529	e424	e521	e486	e530	e525	e552	e529	e506
4	e505	483	511	530	e425	e528	e487	e525	e543	e538	e524	e510
5	e505	489	500	525	e413	e548	e487	e515	e537	e529	e522	e513
6	e500	492	505	e522	e422	e537	e495	e491	e527	e528	e523	e509
7	e498	491	502	e512	e413	e533	e483	e481	e510	e527	e533	e503
8	e489	488	496	e503	e417	e534	e478	e468	e491	e523	e533	e498
9	e495	485	490	e496	e432	e542	e481	e458	e557	e520	e532	e493
10	e502	484	495	e487	e422	e544	e513	e461	e539	e511	e522	e493
11	e489	496	512	e479	e419	e538	e519	e477	e512	e509	e519	e490
12	e469	497	524	e468	e440	e535	e516	e493	e519	e509	e519	e489
13	e469	498	525	e457	e447	e530	e516	e474	e573	e509	e519	e487
14	e469	502	523	e445	e433	e526	e518	e539	e582	e509	e519	e485
15	e459	499	514	e436	e441	e527	e521	e525	e603	e509	e519	e480
16	e473	490	501	e426	e490	e532	e528	e534	e590	e499	e516	e480
17	e469	493	507	e428	e532	e529	e537	e541	e571	e505	e508	e479
18	e446	497	508	e425	e531	e525	e541	e538	e591	e510	e507	e479
19	e448	498	506	e424	e520	e524	e550	e530	e592	e510	e508	e477
20	e452	496	503	e419	e526	e522	e561	e508	e593	e511	e516	e477
21	502	497	506	e424	e529	e539	e593	e504	e596	e516	e519	e477
22	504	533	513	e435	e518	e561	e602	e496	e579	e522	e519	e476
23	506	528	510	e442	e521	e544	e606	e549	e571	e528	e518	e476
24	504	501	510	e426	e513	e493	e622	e566	e540	e538	e516	e475
25	523	510	507	e433	e516	e484	e629	e614	e532	e529	e514	e475
26	508	506	494	e415	e520	e480	e620	e639	e530	e524	e506	e493
27	494	502	501	e419	e517	e477	e617	e598	e528	e521	e506	e512
28	487	495	500	e433	e540	e473	e667	e587	e518	e529	e504	e523
29	486	497	498	e423	---	e469	e670	e600	e509	e537	e504	e514
30	487	528	511	e421	---	e469	e661	e572	e529	e534	e510	e494
31	491	---	564	e423	---	e470	---	e555	---	e525	e505	---
Total	15,118	14,953	15,721	14,313	13,179	16,086	16,467	16,557	16,441	16,213	16,034	14,766
Mean	488	498	507	462	471	519	549	534	548	523	517	492
Max	523	533	564	570	540	561	670	646	603	556	533	523
Min	446	483	490	415	413	469	477	458	491	499	504	475

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	500	482	461	448	459	478	504	527	531	526	524	519
Max	591	536	523	515	534	548	579	651	662	711	711	625
(WY)	(2003)	(2005)	(2000)	(1999)	(1999)	(1999)	(1999)	(2009)	(2002)	(2002)	(2003)	(2002)
Min	368	374	349	363	374	402	381	400	459	434	422	398
(WY)	(2006)	(2006)	(2006)	(2006)	(2007)	(2006)	(1996)	(1996)	(1995)	(1995)	(2005)	(2005)

04092677 GRAND CALUMET RIVER AT INDUSTRIAL HWY AT GARY, IN—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1995 - 2011	
Annual total	175,672		185,848			
Annual mean	481		509		497	
Highest annual mean					556	2002
Lowest annual mean					426	2006
Highest daily mean	564	Dec 31	e 670	Apr 29	783	Jul 27, 2003
Lowest daily mean	413	Jan 15	e 413	Feb 5	305	Apr 27, 1996
Annual seven-day minimum	415	Jan 14	420	Feb 5	339	Dec 20, 2005
Maximum peak flow			670	Apr 29	1,130	Jul 27, 2003
Maximum peak stage			4.74	Jul 1	5.46	Sep 14, 2008
10 percent exceeds	515		553		584	
50 percent exceeds	483		509		492	
90 percent exceeds	436		455		422	

e, estimated