05451773 Bennett Creek near Tama, IA

Iowa Basin
Middle Iowa Subbasin

LOCATION.--Lat 41°57'10.22", long 92°38'57.70" referenced to North American Datum of 1983, in NE ¼ SE ¼ SE ¼ sec.36, T.83 N., R.16 W., Tama County, IA, Hydrologic Unit 07080208, 30 ft upstream from bridge on G Avenue, 3.0 mi west of Tama, and 1.1 mi upstream from mouth.

DRAINAGE AREA.--7.0 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2006-2007, 2011, 2013.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 1 of 11

[$CaCO_3$, calcium carbonate; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Barometric pressure, mm Hg (00025)	Discharge, instanta-neous, ft³/s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	pH, water, unfiltered, field, standard units (00400)	pH, water, unfiltered, laboratory, standard units (00403)	Specific conduc-tance, water, unfiltered, laboratory, µS/cm at 25°C (90095)	Specific conduc-tance, water, unfiltered, µS/cm at 25°C (00095)	Tempera-ture, water, °C (00010)
04-23-2013	**0930**	742	7.7	12.6	8.1	8.1	453	448	4.9
05-22-2013	**0945**	731	18	10.0	7.7	8.0	464	436	10.5
06-26-2013	**0910**	733	18	8.9	7.6	7.8	475	464	15.9
07-24-2013	**0900**	742	--	9.5	8.0	8.2	512	500	15.4
08-20-2013	**1330**	742	--	12.1	8.5	8.2	433	458	22.6

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 05451773, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/05451773.2013.pdf

05451773 Bennett Creek near Tama, IA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
Part 2 of 11

[$CaCO_3$, calcium carbonate; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	alpha-HCH-d6, surrogate, water, filtered (0.7 micron glass fiber filter), percent recovery (91065)	Diazinon-d10, surrogate, water, filtered (0.7 micron glass fiber filter), percent recovery (91063)	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as $CaCO_3$ (39086)	Bicarbonate, water, filtered, inflection-point, incremental titration method, field, mg/L (00453)	Carbonate, water, filtered, inflection-point incremental titration method, field, mg/L (00452)	Ammonia plus organic nitrogen, water, filtered, mg/L as N (00623)	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N (00625)
04-23-2013	0930	E 16	89.4	77.8	144	174	0.7	0.31	0.42
05-22-2013	0945	59	97.4	73.0	145	176	.4	.23	.83
06-26-2013	0910	35	91.5	81.4	161	194	.7	.32	.68
07-24-2013	0900	E 7.9	97.7	84.1	209	252	1.6	.25	.38
08-20-2013	1330	E 10	99.2	79.7	215	245	8.2	.20	.56

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
Part 3 of 11

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Date	Sample start time	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrite, water, filtered, mg/L as N (00613)	Orthophosphate, water, filtered, mg/L as P (00671)	Phosphorus, water, filtered, mg/L as P (00666)	Phosphorus, water, unfiltered, mg/L as P (00665)	Escherichia coli, Defined Substrate Technology, water, MPN/100 mL (50468)	Aluminum, water, filtered, µg/L (01106)
04-23-2013	0930	0.017	12.3	0.015	0.045	0.048	0.092	340	11.9
05-22-2013	0945	.053	16.7	.017	< .004	.034	.196	5,500	18.8
06-26-2013	0910	.044	14.8	.021	.004	.042	.184	3,100	11.6
07-24-2013	0900	.011	8.48	.053	.005	.048	.085	1,900	9.3
08-20-2013	1330	.012	3.09	.013	< .004	< .003	.046	480	2.7

05451773 Bennett Creek near Tama, IA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
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[$CaCO_3$, calcium carbonate; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Barium, water, filtered, µg/L (01005)	Beryllium, water, filtered, µg/L (01010)	Cadmium, water, filtered, µg/L (01025)	Chromium, water, filtered, µg/L (01030)	Cobalt, water, filtered, µg/L (01035)	Copper, water, filtered, µg/L (01040)	Lead, water, filtered, µg/L (01049)	Manga-nese, water, filtered, µg/L (01056)	Mercury, water, unfiltered, recover-able, µg/L (71900)
04-23-2013	**0930**	125	< .006	< .016	0.09	0.225	< .80	< .025	57.5	< .005
05-22-2013	**0945**	141	< .006	< .016	.15	.309	< .80	.060	83.8	.007
06-26-2013	**0910**	150	< .006	< .016	.07	1.46	< .80	< .025	66.9	< .005
07-24-2013	**0900**	153	.006	< .016	.57	.496	.86	.041	30.7	< .005
08-20-2013	**1330**	128	< .006	< .016	.09	1.18	1.9	< .025	18.4	< .005

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
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Date	Sample start time	Molyb-denum, water, filtered, µg/L (01060)	Nickel, water, filtered, µg/L (01065)	Silver, water, filtered, µg/L (01075)	Zinc, water, filtered, µg/L (01090)	Antimony, water, filtered, µg/L (01095)	Arsenic, water, filtered, µg/L (01000)	Selenium, water, filtered, µg/L (01145)	2,6-Diethyl-aniline, water, filtered (0.7 micron glass fiber filter), recover-able, µg/L (82660)	2-Chloro-4-isopropyl-amino-6-amino-s-triazine, water, filtered, recover-able, µg/L (04040)
04-23-2013	**0930**	0.552	0.75	< .005	< 1.4	0.122	0.46	3.5	< .0060	E .067
05-22-2013	**0945**	.542	1.0	< .005	< 1.4	.157	.68	2.5	< .0060	E .116
06-26-2013	**0910**	.639	1.1	< .005	< 1.4	.187	.75	1.3	< .0060	E .227
07-24-2013	**0900**	.850	1.2	< .005	< 1.4	.183	1.3	1.9	< .0060	E .101
08-20-2013	**1330**	1.08	1.1	< .005	< 1.4	.236	.94	1.2	< .0060	E .067

05451773 Bennett Creek near Tama, IA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
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[$CaCO_3$, calcium carbonate; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Acetochlor, water, filtered, recoverable, µg/L (49260)	Alachlor, water, filtered, recoverable, µg/L (46342)	alpha-HCH, water, filtered, recoverable, µg/L (34253)	Atrazine, water, filtered, recoverable, µg/L (39632)	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82686)	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82673)	Butylate, water, filtered, recoverable, µg/L (04028)	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82680)
04-23-2013	0930	< .010	< .008	< .0040	0.020	< .120	< .014	< .0040	< .060
05-22-2013	0945	.012	< .008	< .0040	1.46	< .120	< .014	< .0040	< .060
06-26-2013	0910	.064	< .008	< .0040	.732	< .120	< .014	< .0040	< .060
07-24-2013	0900	.009	< .008	< .0040	.188	< .120	< .014	< .0040	< .060
08-20-2013	1330	.006	< .008	< .0040	.081	< .120	< .014	< .0040	< .060

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
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[$CaCO_3$, calcium carbonate; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Carbofuran, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82674)	Chlorpyrifos, water, filtered, recoverable, µg/L (38933)	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82687)	Cyanazine, water, filtered, recoverable, µg/L (04041)	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82682)	Desulfinylfipronil amide, water, filtered, recoverable, µg/L (62169)	Desulfinylfipronil, water, filtered, recoverable, µg/L (62170)	Diazinon, water, filtered, recoverable, µg/L (39572)	Dieldrin, water, filtered, recoverable, µg/L (39381)
04-23-2013	0930	< .060	< .0100	< .010	< .022	< .0076	< .029	< .012	< .0060	< .008
05-22-2013	0945	< .060	< .0100	< .010	< .022	< .0076	< .029	< .012	< .0060	< .008
06-26-2013	0910	< .060	< .0100	< .010	< .022	< .0076	< .029	< .012	< .0060	< .008
07-24-2013	0900	< .060	< .0100	< .010	< .022	< .0076	< .029	< .012	< .0060	< .008
08-20-2013	1330	< .060	< .0100	< .010	< .022	< .0076	< .029	< .012	< .0060	< .008

05451773 Bennett Creek near Tama, IA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
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[$CaCO_3$, calcium carbonate; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Disulfoton, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82677)	EPTC, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82668)	Ethalfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82663)	Ethoprop, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82672)	Fipronil sulfide, water, filtered, recoverable, µg/L (62167)	Fipronil sulfone, water, filtered, recoverable, µg/L (62168)	Fipronil, water, filtered, recoverable, µg/L (62166)	Fonofos, water, filtered, recoverable, µg/L (04095)	Lindane, water, filtered, recoverable, µg/L (39341)
04-23-2013	0930	< .040	< .0056	< .006	< .016	< .016	< .024	< .018	< .0048	< .0040
05-22-2013	0945	< .040	< .0056	< .006	< .016	< .016	< .024	< .018	< .0048	< .0040
06-26-2013	0910	< .040	< .0056	< .006	< .016	< .016	< .024	< .018	< .0048	< .0040
07-24-2013	0900	< .040	< .0056	< .006	< .016	< .016	< .024	< .018	< .0048	< .0040
08-20-2013	1330	< .040	< .0056	< .006	< .016	< .016	< .024	< .018	< .0048	< .0040

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
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Date	Sample start time	Linuron, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82666)	Malathion, water, filtered, recoverable, µg/L (39532)	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82667)	Metolachlor, water, filtered, recoverable, µg/L (39415)	Metribuzin, water, filtered, recoverable, µg/L (82630)	Molinate, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82671)	Napropamide, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82684)	p,p'-DDE, water, filtered, recoverable, µg/L (34653)	Parathion, water, filtered, recoverable, µg/L (39542)
04-23-2013	0930	< .060	< .016	< .008	0.016	< .012	< .0080	< .010	< .005	< .020
05-22-2013	0945	< .060	< .016	< .008	.390	< .012	< .0080	< .010	< .005	< .020
06-26-2013	0910	< .060	< .016	< .008	.893	< .012	< .0080	< .010	< .005	< .020
07-24-2013	0900	< .060	< .016	< .008	.114	< .012	< .0080	< .010	< .005	< .020
08-20-2013	1330	< .060	< .016	< .008	.058	< .012	< .0080	< .010	< .005	< .020

05451773 Bennett Creek near Tama, IA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
Part 10 of 11

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Date	Sample start time	Pebulate, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82669)	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82683)	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82664)	Prometon, water, filtered, recoverable, µg/L (04037)	Propachlor, water, filtered, recoverable, µg/L (04024)	Propanil, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82679)	Propargite, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82685)	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82676)	Simazine, water, filtered, recoverable, µg/L (04035)
04-23-2013	**0930**	< .0160	< .012	< .020	< .012	< .006	< .010	< .020	< .0080	< .006
05-22-2013	**0945**	< .0160	< .012	< .020	< .012	< .006	< .010	< .020	< .0080	.006
06-26-2013	**0910**	< .0160	< .012	< .020	< .012	< .006	< .010	< .020	< .0080	.004
07-24-2013	**0900**	< .0160	< .012	< .020	< .012	< .006	< .010	< .020	< .0080	< .006
08-20-2013	**1330**	< .0160	< .012	< .020	< .012	< .006	< .010	< .020	< .0080	< .006

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
Part 11 of 11

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Date	Sample start time	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82670)	Terbacil, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82665)	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82675)	Thiobencarb, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82681)	Triallate, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82678)	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82661)	Uranium (natural), water, filtered, µg/L (22703)
04-23-2013	**0930**	< .028	< .024	< .018	< .016	< .0046	< .018	1.05
05-22-2013	**0945**	< .028	< .024	< .018	< .016	< .0046	< .018	.880
06-26-2013	**0910**	< .028	< .024	< .018	< .016	< .0046	< .018	.979
07-24-2013	**0900**	< .028	< .024	< .018	< .016	< .0046	< .018	1.49
08-20-2013	**1330**	< .028	< .024	< .018	< .016	< .0046	< .018	1.76