

Water-Data Report 2007

02204118 HONEY CREEK AT HURST ROAD, NEAR CONYERS, GA

Altamaha Basin
Upper Ocmulgee Subbasin

LOCATION.--Lat 33°39'44", long 84°05'03" referenced to North American Datum of 1983, Rockdale County, GA, Hydrologic Unit 03070103, 0.5 mile north of Goddard Road, 4.3 miles south of Lithonia, 2.5 miles east of Arabia Mountain, and 3.5 miles west of Interstate 20.

DRAINAGE AREA.--8.0 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--

DISCHARGE: April 2003 to March 2007.

GAGE-HEIGHT: April 2003 to March 2007.

GAGE.--Satellite telemetry with water-stage recorder. Datum of gage 760 feet above National Geodetic Vertical Datum (NGVD) of 1929 (from topographic map).

COOPERATION.--Rockdale County Department of Water Resources.

REMARKS.--Discharge records fair, except for days of estimated discharge, which are poor. Gage-height records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 727 cfs, May 6, 2003; maximum gage-height recorded, 8.30 feet, July 7, 2005; minimum daily discharge, 0.52 cfs, August 10, 2006.

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 197 cfs, January 8; maximum gage-height recorded, 4.18 feet, January 8; minimum gage-height recorded, 2.00 feet, October 4; minimum daily discharge, 1.2 cfs, October 4 and 5.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.9	4.0	5.4	66	21	41	---	---	---	---	---	---
2	1.7	4.0	2.7	9.1	7.9	39	---	---	---	---	---	---
3	1.3	4.2	2.2	6.5	6.3	11	---	---	---	---	---	---
4	1.2	4.1	3.7	5.5	5.5	8.6	---	---	---	---	---	---
5	1.2	4.1	2.8	9.7	5.2	7.5	---	---	---	---	---	---
6	1.3	3.8	2.4	7.3	5.2	7.0	---	---	---	---	---	---
7	1.4	5.4	2.2	19	4.9	6.6	---	---	---	---	---	---
8	1.4	7.0	2.2	68	4.7	6.2	---	---	---	---	---	---
9	1.4	5.5	2.1	10	4.5	5.9	---	---	---	---	---	---
10	1.4	5.1	2.2	7.6	4.4	7.4	---	---	---	---	---	---
11	1.5	5.2	e2.2	6.6	4.4	5.6	---	---	---	---	---	---
12	2.0	5.4	2.3	5.9	4.4	5.1	---	---	---	---	---	---
13	2.1	5.4	2.4	5.4	7.0	4.9	---	---	---	---	---	---
14	2.2	12	2.5	5.0	5.5	4.7	---	---	---	---	---	---
15	2.3	26	2.5	4.7	4.3	5.0	---	---	---	---	---	---
16	2.3	40	2.3	5.3	4.0	11	---	---	---	---	---	---
17	4.8	9.7	2.2	4.2	4.0	5.4	---	---	---	---	---	---
18	6.7	4.5	2.1	5.3	3.9	4.6	---	---	---	---	---	---
19	4.7	3.5	2.0	4.5	3.8	4.4	---	---	---	---	---	---
20	5.0	2.9	2.0	3.9	3.9	4.1	---	---	---	---	---	---
21	4.5	3.1	1.9	6.6	10	4.0	---	---	---	---	---	---
22	4.3	3.4	6.8	17	5.7	4.0	---	---	---	---	---	---
23	4.5	3.0	3.2	6.3	4.4	4.0	---	---	---	---	---	---
24	4.5	2.7	2.4	5.1	4.0	3.9	---	---	---	---	---	---
25	4.6	2.6	19	4.7	9.2	3.8	---	---	---	---	---	---
26	4.5	2.8	6.5	4.3	5.2	3.6	---	---	---	---	---	---
27	18	2.9	4.1	4.1	4.2	---	---	---	---	---	---	---
28	31	2.7	3.4	4.3	3.8	---	---	---	---	---	---	---
29	13	3.2	3.1	3.8	---	---	---	---	---	---	---	---
30	7.2	3.9	3.0	3.7	---	---	---	---	---	---	---	---
31	4.8	---	30	3.6	---	---	---	---	---	---	---	---
Total	148.7	192.1	133.8	323.0	161.3	---	---	---	---	---	---	---
Mean	4.80	6.40	4.32	10.4	5.76	---	---	---	---	---	---	---
Max	31	40	30	68	21	---	---	---	---	---	---	---
Min	1.2	2.6	1.9	3.6	3.8	---	---	---	---	---	---	---
Cfsm	0.60	0.80	0.54	1.30	0.72	---	---	---	---	---	---	---
In.	0.69	0.89	0.62	1.50	0.75	---	---	---	---	---	---	---

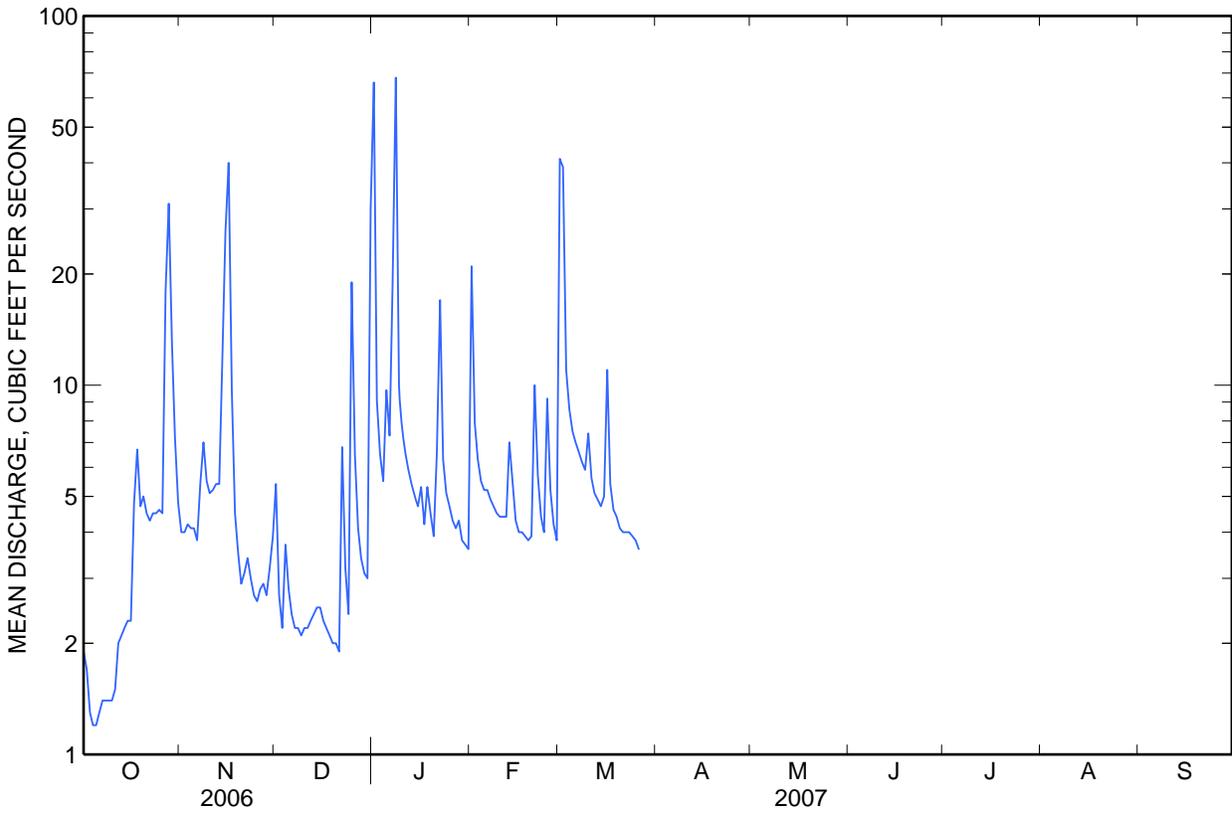
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	8.29	11.9	8.75	9.93	13.1	12.0	9.78	15.1	12.3	15.9	7.04	7.91
Max	18.7	19.3	12.1	13.2	17.1	17.9	15.8	37.9	16.7	28.2	13.8	18.3
(WY)	(2006)	(2005)	(2005)	(2004)	(2004)	(2005)	(2005)	(2003)	(2004)	(2005)	(2005)	(2004)
Min	4.35	6.40	4.32	6.11	5.76	6.44	6.04	6.71	7.04	3.22	2.29	3.70
(WY)	(2004)	(2007)	(2007)	(2005)	(2007)	(2004)	(2004)	(2006)	(2006)	(2006)	(2006)	(2005)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Years 2003 - 2007	
Annual total	2,547.83			
Annual mean	6.98		10.8	
Highest annual mean			12.8	2005
Lowest annual mean			9.05	2006
Highest daily mean	76	Feb 7	306	Jul 7, 2005
Lowest daily mean	0.79	Aug 9	0.65	Jun 6, 2004
Annual seven-day minimum	0.96	Aug 3	0.96	Aug 3, 2006
Maximum peak flow			727	May 6, 2003
Maximum peak stage			8.30	Jul 7, 2005
Annual runoff (cfsm)	0.873		1.35	
Annual runoff (inches)	11.85		18.34	
10 percent exceeds	13		20	
50 percent exceeds	5.0		7.2	
90 percent exceeds	1.5		2.3	

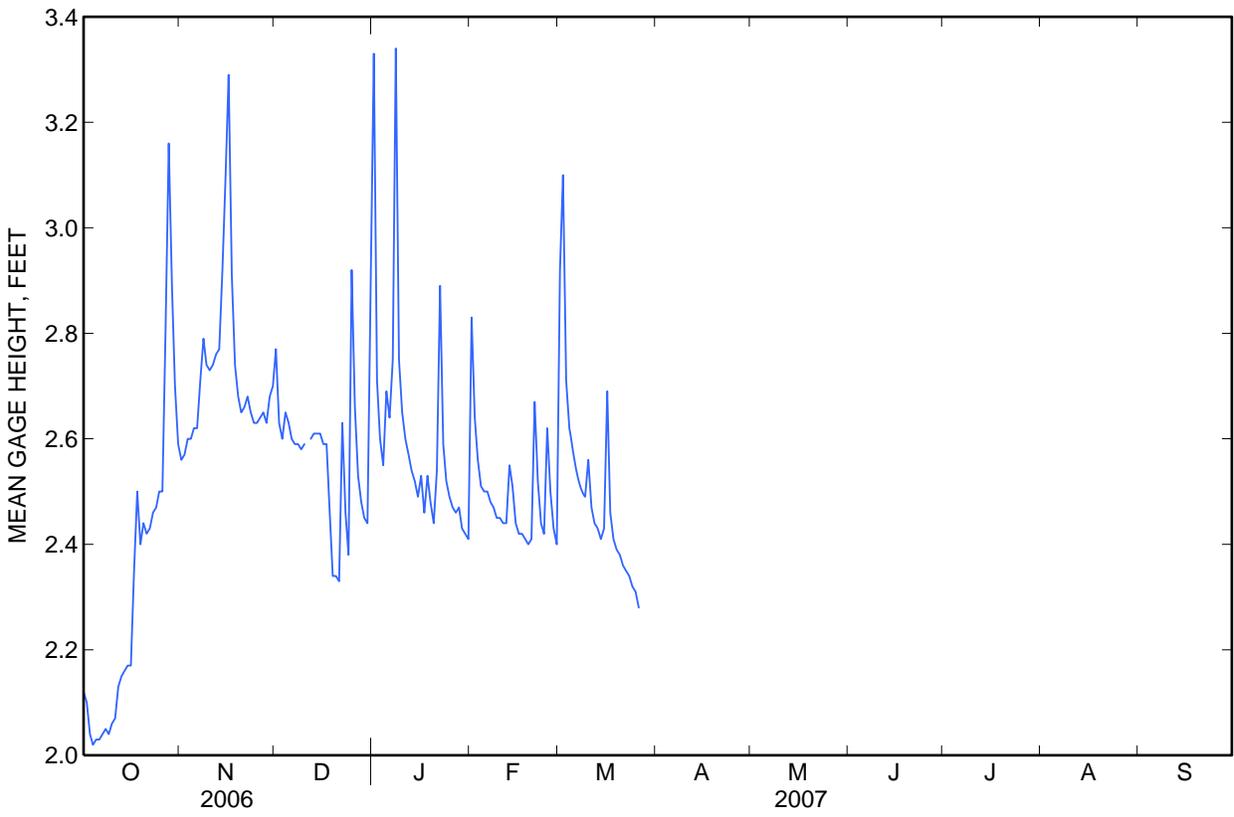


02204118 HONEY CREEK AT HURST ROAD, NEAR CONYERS, GA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.12	2.56	2.77	3.33	2.83	2.92	---	---	---	---	---	---
2	2.10	2.57	2.63	2.71	2.64	3.10	---	---	---	---	---	---
3	2.04	2.60	2.60	2.60	2.56	2.71	---	---	---	---	---	---
4	2.02	2.60	2.65	2.55	2.51	2.62	---	---	---	---	---	---
5	2.03	2.62	2.63	2.69	2.50	2.58	---	---	---	---	---	---
6	2.03	2.62	2.60	2.64	2.50	2.55	---	---	---	---	---	---
7	2.04	2.71	2.59	2.75	2.48	2.52	---	---	---	---	---	---
8	2.05	2.79	2.59	3.34	2.47	2.50	---	---	---	---	---	---
9	2.04	2.74	2.58	2.75	2.45	2.49	---	---	---	---	---	---
10	2.06	2.73	2.59	2.65	2.45	2.56	---	---	---	---	---	---
11	2.07	2.74	---	2.60	2.44	2.47	---	---	---	---	---	---
12	2.13	2.76	2.60	2.57	2.44	2.44	---	---	---	---	---	---
13	2.15	2.77	2.61	2.54	2.55	2.43	---	---	---	---	---	---
14	2.16	2.92	2.61	2.52	2.51	2.41	---	---	---	---	---	---
15	2.17	3.09	2.61	2.49	2.44	2.43	---	---	---	---	---	---
16	2.17	3.29	2.59	2.53	2.42	2.69	---	---	---	---	---	---
17	2.35	2.91	2.59	2.46	2.42	2.46	---	---	---	---	---	---
18	2.50	2.74	2.46	2.53	2.41	2.41	---	---	---	---	---	---
19	2.40	2.68	2.34	2.48	2.40	2.39	---	---	---	---	---	---
20	2.44	2.65	2.34	2.44	2.41	2.38	---	---	---	---	---	---
21	2.42	2.66	2.33	2.54	2.67	2.36	---	---	---	---	---	---
22	2.43	2.68	2.63	2.89	2.52	2.35	---	---	---	---	---	---
23	2.46	2.65	2.46	2.59	2.44	2.34	---	---	---	---	---	---
24	2.47	2.63	2.38	2.52	2.42	2.32	---	---	---	---	---	---
25	2.50	2.63	2.92	2.49	2.62	2.31	---	---	---	---	---	---
26	2.50	2.64	2.66	2.47	2.50	2.28	---	---	---	---	---	---
27	2.81	2.65	2.53	2.46	2.43	---	---	---	---	---	---	---
28	3.16	2.63	2.48	2.47	2.40	---	---	---	---	---	---	---
29	2.89	2.68	2.45	2.43	---	---	---	---	---	---	---	---
30	2.70	2.70	2.44	2.42	---	---	---	---	---	---	---	---
31	2.59	---	2.89	2.41	---	---	---	---	---	---	---	---
Mean	2.32	2.72	---	2.61	2.49	---	---	---	---	---	---	---
Max	3.16	3.29	---	3.34	2.83	---	---	---	---	---	---	---
Min	2.02	2.56	---	2.41	2.40	---	---	---	---	---	---	---

02204118 HONEY CREEK AT HURST ROAD, NEAR CONYERS, GA—Continued



02204118 HONEY CREEK AT HURST ROAD, NEAR CONYERS, GA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 2003 to February 2007.

INSTRUMENTATION.--Satellite telemetry with an automatic refrigerated sampler.

REMARKS.--Medium code 9 indicates a surface water sample and a suspended sediment sample. Hydrologic condition 9 indicates baseflow, 8 indicates rising stage, and 5 indicates falling stage. Hydrologic condition X, indicates not applicable, and is applied to samples with more than one hydrologic condition represented. Sample type 9 indicates a routine sample, and H indicates a composite sample taken by an automatic sampler. Hydrologic event 9 indicates a routine sample, and J indicates runoff due to a storm event. Sampler type code 3001 represents a DH-48, 3002 represents a DH-59, 3044 represents a DH-81 with a Teflon nozzle, 3052 represents a DH-95 with a plastic bottle, and 4115 represents an automatic point sampler. Sampling method code 10 indicates Equal-Width-Increment, 50 indicates point sample, and 70 indicates grab sample. Laboratory chemical analyses with analyzing agency code 80020 are by the U.S. Geological Survey, National Water Quality Laboratory. Laboratory chemical analyses of biological oxygen demand with analyzing agency code 80855 are by Severn-Trent Laboratories, Inc. Laboratory sediment analyses are by the U.S. Geological Survey, Sediment Partitioning Research Laboratory. Field determinations of discharge, specific conductance, pH, water temperature, dissolved oxygen, barometric pressure, and turbidity are by the U.S. Geological Survey.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 1 of 3

[Remark codes: <, less than; E, estimated.]

Date	Time	End time	Time Datum	Medium code	Gage height, feet (00065)	Dis-charge, cfs (00060)	Dis-charge, mean for storm event, cfs (72123)	Turbidity white light, det ang 90+/-30 correctd NTRU (63676)	Turbidity, IR LED light, det ang 90 deg, FNU (63680)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf 25 degC μ S/cm (00095)
Oct													
17...	0900	0000	EST	9	2.23	1.9	--	14	12	741	7.6	6.8	73
Oct													
27-28	1300	1335	EST	9	--	--	36	69	78	--	--	7.9	51
Nov													
08...	1130	0000	EST	9	2.76	17	--	4.8	5.5	737	9.3	6.8	69
16...	1245	0000	EST	9	3.59	78	--	49	62	735	8.9	6.6	43
Dec													
22-23	0640	1945	EST	9	--	--	9	12	11	--	--	6.8	60
Jan													
08...	0900	0000	EST	9	3.49	67	--	44	55	745	10.2	6.6	45
Jan													
21-23	1940	0945	EST	9	--	--	15	41	37	--	--	7.2	50
Feb													
06...	1030	0000	EST	9	2.51	2.5	--	--	8.1	750	11.4	6.6	59

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 3

[Remark codes: <, less than; E, estimated.]

Date	Temperature, water, deg C (00010)	Alka- linity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Residue on evap. at 105degC wat flt mg/L (00515)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non- filter- able, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	COD, high level, water, unfltrd mg/L (00340)	E coli, Defined Substr. Tech., water, MPN/ 100 mL (50468)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)
Oct 17...	14.8	25	61	--	--	--	--	--	--	<.04	--	680	620
Oct 27-28	--	--	--	30	62	.26	E.010	.19	<.02	.10	20	--	--
Nov 08...	12.5	20	48	--	--	--	--	--	--	E.02	--	260	230
Nov 16...	13.3	11	34	--	--	--	--	--	--	.06	--	1,200	1,400
Dec 22-23	--	--	--	42	<14	.46	.145	.26	<.02	.02	20	--	--
Jan 08...	12.8	10	42	--	--	--	--	--	--	.04	--	1,100	960
Jan 21-23	--	--	--	34	38	.43	.126	.24	<.02	.04	10	--	--
Feb 06...	3.7	--	--	--	--	--	--	--	--	--	--	39	31

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 3

[Remark codes: <, less than; E, estimated.]

Date	Total coli- form, Defined Tech., MPN/ 100 mL (50569)	Cadmium water, unfltrd µg/L (01027)	Lead, water, unfltrd recover- able, µg/L (01051)	Zinc, water, unfltrd recover- able, µg/L (01092)
Oct 17...	24,000	--	--	--
Oct 27-28	--	.06	5.15	22
Nov 08...	8,500	--	--	--
Nov 16...	200,000	--	--	--
Dec 22-23	--	E.01	2.89	6
Jan 08...	22,000	--	--	--
Jan 21-23	--	.05	1.84	13
Feb 06...	630	--	--	--

02204118 HONEY CREEK AT HURST ROAD, NEAR CONYERS, GA—Continued

CLIMATOLOGICAL RECORDS

COOPERATION.--Rockdale County Department of Water Resources.

PERIOD OF RECORD.--April 2003 to March 2007.

INSTRUMENTATION.--Tipping-bucket raingage.

REMARKS.--Records good.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.14	0.22	1.05	1.82	---	---	---	---	---	---
2	0.00	0.00	0.00	0.00	0.01	0.00	---	---	---	---	---	---
3	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---
4	0.00	0.00	0.00	0.02	0.00	0.00	---	---	---	---	---	---
5	0.00	0.00	0.00	0.38	0.00	0.00	---	---	---	---	---	---
6	0.00	0.00	0.00	0.01	0.00	0.00	---	---	---	---	---	---
7	0.00	0.53	0.00	1.42	0.00	0.00	---	---	---	---	---	---
8	0.00	0.01	0.00	0.20	0.00	0.00	---	---	---	---	---	---
9	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---
10	0.00	0.00	0.00	0.00	0.00	0.16	---	---	---	---	---	---
11	0.25	0.02	0.00	0.00	0.00	0.00	---	---	---	---	---	---
12	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---
13	0.00	0.00	0.00	0.00	0.36	0.00	---	---	---	---	---	---
14	0.00	0.00	0.00	0.00	0.01	0.02	---	---	---	---	---	---
15	0.00	2.27	0.00	0.01	0.00	0.35	---	---	---	---	---	---
16	0.12	0.30	0.00	0.10	0.00	0.22	---	---	---	---	---	---
17	0.52	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---
18	0.01	0.00	0.00	0.18	0.00	0.00	---	---	---	---	---	---
19	0.11	0.00	0.00	0.02	0.00	0.00	---	---	---	---	---	---
20	0.00	0.00	0.00	0.00	0.03	0.00	---	---	---	---	---	---
21	0.00	0.00	0.00	0.86	0.60	0.00	---	---	---	---	---	---
22	0.08	0.01	0.50	0.37	0.00	0.00	---	---	---	---	---	---
23	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---
24	0.00	0.00	0.03	0.00	0.00	0.00	---	---	---	---	---	---
25	0.00	0.00	1.04	0.00	0.27	0.00	---	---	---	---	---	---
26	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---
27	1.77	0.00	0.00	0.04	0.00	---	---	---	---	---	---	---
28	0.00	0.00	0.00	0.05	0.00	---	---	---	---	---	---	---
29	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---
30	0.00	0.14	0.06	0.00	---	---	---	---	---	---	---	---
31	0.00	---	1.22	0.00	---	---	---	---	---	---	---	---
Total	2.86	3.28	2.99	3.88	2.33	---	---	---	---	---	---	---

02204118 HONEY CREEK AT HURST ROAD, NEAR CONYERS, GA—Continued

