Water-Data Report 2013

02318700 OKAPILCO CREEK AT GA 33, NEAR QUITMAN, GA

Suwannee Basin
Withlacoochee Subbasin

LOCATION.--Lat 30°49′32″, long 83°33′45″ referenced to North American Datum of 1983, Brooks County, GA, Hydrologic Unit 03110203, on downstream side of bridge pier on GA 333, 1.0 mile downstream from Coon Creek, and 3.0 mile north of Quitman.

DRAINAGE AREA.--269 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--
DISCHARGE: December 1979 to current year.
GAGE-HEIGHT: December 1979 to current year.

GAGE.--Satellite telemetry with a water-stage recorder. Elevation of gage is 104.1 feet above North American Vertical Datum (NAVD) of 1988 (leveling by Global Positioning System equipment).

COOPERATION.--Georgia Department of Natural Resources, Environmental Protection Division.

REMARKS.--Discharge records fair. Gage-height records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 18,500 cfs, February 12, 1986; maximum gage-height recorded, 18.75 feet, February 12, 1986; minimum daily discharge, 0.00 cfs, many days during most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb 27	1145	*11,200	*16.30
Mar 25	2345	2,920	13.05
Aug 21	0400	2,170	12.49

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 02318700, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/02318700.2013.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.8	0.00	0.00	41	6.9	3,590	383	93	26	6.7	306	222
2	1.5	0.00	0.00	51	5.7	2,240	309	84	17	7.7	267	169
3	1.6	0.00	0.00	63	5.1	1,490	270	83	13	30	204	146
4	2.4	0.00	0.00	72	6.4	1,040	296	86	12	90	208	146
5	3.3	0.00	0.00	74	13	752	301	98	18	148	222	148
6	8.2	0.00	0.00	65	16	570	300	104	28	335	192	133
7	24	0.00	0.00	54	16	441	301	115	60	395	146	107
8	37	0.00	0.00	50	15	358	293	128	48	367	103	86
9	50	0.00	0.00	49	14	304	266	138	92	384	82	68
10	62	0.00	0.00	47	17	270	237	129	155	402	75	54
11	61	0.00	0.00	42	22	237	207	102	210	442	61	42
12	45	0.00	0.00	35	32	227	175	78	239	497	46	33
13	29	0.00	0.00	31	46	226	151	59	248	586	35	26
14	20	0.00	0.00	27	66	228	137	43	240	630	32	21
15	15	0.00	0.00	24	92	247	309	33	236	587	79	17
16	11	0.00	0.00	22	120	249	493	25	210	565	130	13
17	8.4	0.00	0.00	19	155	236	667	18	146	589	129	11
18	6.1	0.00	0.00	17	203	214	702	13	85	444	175	8.7
19	4.6	0.00	0.00	16	271	209	651	10	51	283	298	6.9
20	3.5	0.00	0.00	14	317	207	589	8.1	32	217	1,150	5.5
21	2.7	0.00	0.00	13	264	207	468	6.1	20	218	2,050	4.6
22	1.9	0.00	0.00	12	196	206	363	4.7	14	207	1,720	4.8
23	1.2	0.00	0.00	10	329	268	308	4.2	14	280	1,660	13
24	0.73	0.00	0.00	9.3	449	822	289	3.6	11	512	1,500	30
25	0.50	0.00	0.00	9.0	889	2,010	276	2.9	7.4	956	1,120	30
26	0.34	0.00	0.14	8.5	3,840	2,640	238	17	14	1,050	841	29
27	0.24	0.00	1.7	7.4	10,200	1,910	185	81	14	1,010	608	32
28	0.13	0.00	1.1	6.3	6,810	1,330	142	135	11	914	479	27
29	0.05	0.00	3.3	5.6	---	957	112	115	7.7	710	540	23
30	0.00	0.00	16	5.2	---	704	105	75	5.5	472	455	20
31	0.00	---	29	6.6	---	508	---	44	---	348	306	---
Total	403.19	0.00	51.24	905.9	24,416.1	24,897	9,523	1,935.6	2,284.6	13,682.4	15,219	1,676.5
Mean	13.0	0.00	1.65	29.2	872	803	317	62.4	76.2	441	491	55.9
Max	62	0.00	29	74	10,200	3,590	702	138	248	1,050	2,050	222
Min	0.00	0.00	0.00	5.2	5.1	206	105	2.9	5.5	6.7	32	4.6
Cfsm	0.05	0.00	0.01	0.11	3.24	2.99	1.18	0.23	0.28	1.64	1.83	0.21
In.	0.06	0.00	0.01	0.13	3.38	3.44	1.32	0.27	0.32	1.89	2.10	0.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	109	76.0	169	344	570	652	352	66.1	85.7	124	126	76.3
Max	1,255	910	839	1,735	2,614	2,223	2,115	507	429	1,106	1,031	783
(WY)	(1995)	(1998)	(1986)	(1991)	(1986)	(1991)	(2009)	(1991)	(2005)	(2005)	(1994)	(2004)
Min	0.00	0.00	0.00	0.33	1.95	52.5	1.84	0.02	0.00	0.00	0.01	0.00
(WY)	(1982)	(1991)	(1991)	(2002)	(1989)	(1985)	(2007)	(2012)	(2007)	(2000)	(2007)	(1990)

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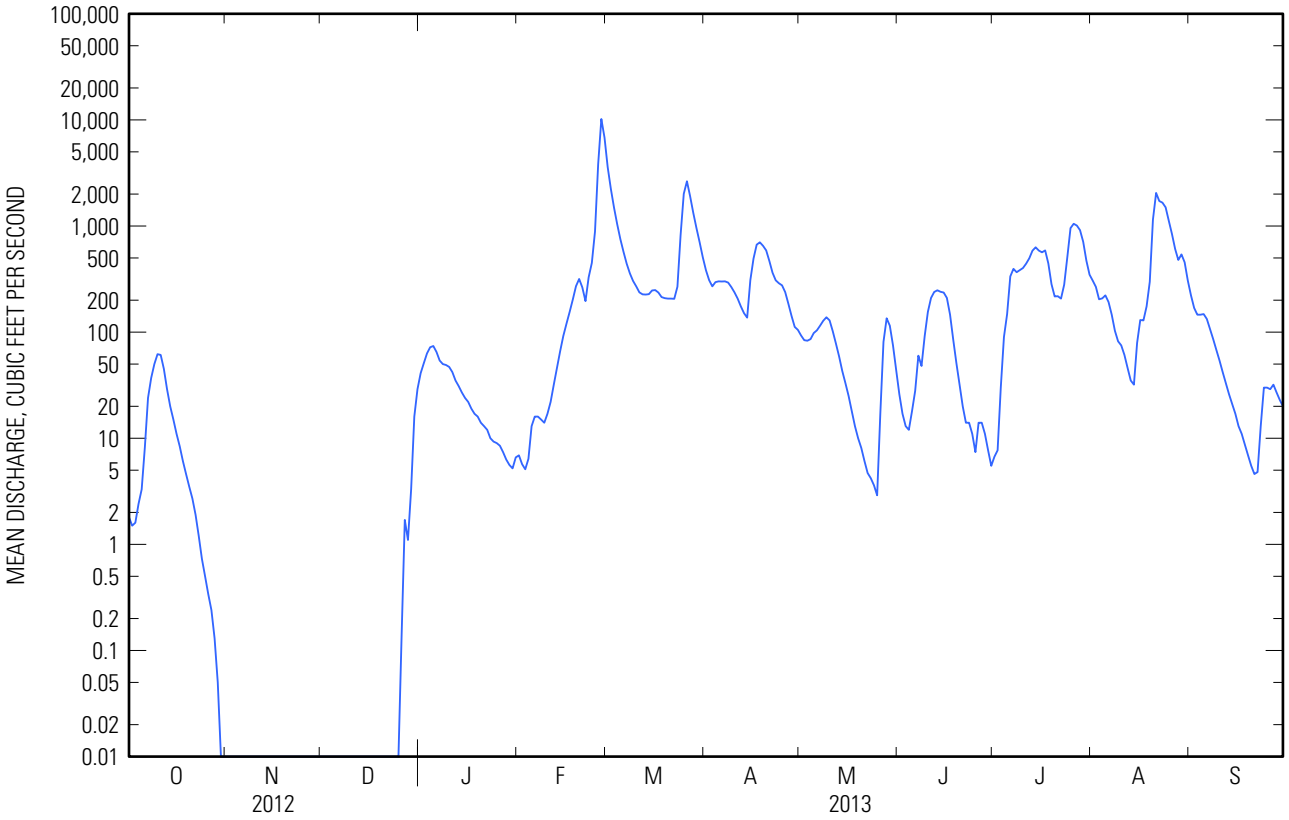
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1980 - 2013	
Annual total	18,342.62		94,994.53			
Annual mean	50.1		260		227	
Highest annual mean					664	1991
Lowest annual mean					31.1	2011
Highest daily mean	2,510	Mar 5	10,200	Feb 27	14,600	Feb 12, 1986
Lowest daily mean	0.00	May 5	0.00	Oct 30 [a]	0.00	Sep 6, 1980 [a]
Annual seven-day minimum	0.00	May 11	0.00	Oct 30 [b]	0.00	Sep 10, 1980 [b]
Maximum peak flow			11,200	Feb 27	[c] 18,500	Feb 12, 1986
Maximum peak stage			16.30	Feb 27	18.94	Apr 3, 2009
Annual runoff (cfsm)	0.186		0.968		0.842	
Annual runoff (inches)	2.54		13.14		11.44	
10 percent exceeds	88		586		616	
50 percent exceeds	4.4		48		27	
90 percent exceeds	0.00		0.00		0.00	

[a] No flow on many days.
[b] Many seven-day periods with no flow.
[c] Gage-height, 18.75 feet.



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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.05	2.71	2.02	4.89	3.51	13.43	8.88	6.05	4.77	3.97	8.86	7.78
2	3.01	2.69	2.00	5.13	3.43	12.54	8.41	5.90	4.41	4.03	8.54	7.16
3	3.03	2.65	1.99	5.37	3.38	11.83	8.12	5.89	4.25	4.94	7.96	6.83
4	3.12	2.63	1.97	5.53	3.47	11.16	8.32	5.95	4.18	6.32	8.01	6.83
5	3.22	2.59	1.95	5.55	3.84	10.50	8.35	6.17	4.45	7.18	8.15	6.86
6	3.56	2.59	1.94	5.37	3.99	9.83	8.35	6.29	4.76	9.04	7.82	6.65
7	4.28	2.57	1.92	5.14	3.99	9.21	8.35	6.48	5.67	9.37	7.20	6.25
8	4.70	2.53	1.92	5.04	3.93	8.73	8.29	6.68	5.39	9.23	6.54	5.89
9	5.03	2.50	1.91	5.02	3.88	8.37	8.08	6.83	6.27	9.32	6.18	5.55
10	5.32	2.47	1.91	4.97	4.05	8.12	7.83	6.71	7.24	9.41	6.05	5.24
11	5.29	2.45	1.90	4.84	4.22	7.82	7.52	6.30	7.94	9.60	5.77	4.96
12	4.91	2.43	1.93	4.66	4.55	7.72	7.14	5.89	8.23	9.82	5.41	4.70
13	4.47	2.41	1.93	4.52	4.95	7.72	6.79	5.51	8.32	10.13	5.11	4.49
14	4.15	2.39	1.91	4.40	5.39	7.73	6.60	5.14	8.25	10.27	5.01	4.30
15	3.93	2.37	1.90	4.30	5.89	7.92	8.33	4.88	8.22	10.13	6.02	4.13
16	3.78	2.35	1.89	4.22	6.35	7.94	9.48	4.63	7.96	10.06	6.85	3.97
17	3.63	2.33	1.91	4.13	6.86	7.82	10.22	4.38	7.14	10.14	6.78	3.85
18	3.49	2.30	1.91	4.05	7.47	7.59	10.35	4.18	6.18	9.59	7.37	3.73
19	3.39	2.28	1.89	3.97	8.12	7.54	10.17	4.03	5.49	8.67	8.48	3.62
20	3.30	2.26	1.90	3.91	8.47	7.52	9.93	3.92	4.98	8.10	11.06	3.52
21	3.23	2.24	1.92	3.85	8.05	7.52	9.39	3.80	4.59	8.11	12.39	3.45
22	3.14	2.22	1.90	3.79	7.41	7.52	8.81	3.71	4.36	7.99	12.08	3.46
23	3.05	2.19	1.88	3.70	8.51	8.00	8.46	3.67	4.35	8.63	12.01	3.91
24	2.98	2.17	1.89	3.66	9.27	10.64	8.33	3.62	4.23	9.83	11.84	4.62
25	2.93	2.14	1.99	3.64	10.56	12.28	8.24	3.56	4.01	11.02	11.31	4.61
26	2.89	2.12	2.60	3.61	13.39	12.85	7.91	4.31	4.34	11.20	10.76	4.58
27	2.87	2.10	3.22	3.54	16.00	12.26	7.35	6.05	4.35	11.12	10.04	4.68
28	2.83	2.08	3.10	3.47	14.80	11.63	6.77	6.96	4.21	10.94	9.52	4.53
29	2.78	2.06	3.31	3.41	---	11.01	6.35	6.66	4.03	10.50	9.79	4.37
30	2.74	2.04	4.10	3.38	---	10.34	6.24	5.96	3.88	9.70	9.38	4.26
31	2.73	---	4.56	3.49	---	9.55	---	5.29	---	9.11	8.49	---
Mean	3.58	2.36	2.23	4.34	6.70	9.50	8.25	5.34	5.55	8.95	8.41	4.96
Max	5.32	2.71	4.56	5.55	16.00	13.43	10.35	6.96	8.32	11.20	12.39	7.78
Min	2.73	2.04	1.88	3.38	3.38	7.52	6.24	3.56	3.88	3.97	5.01	3.45

	Calendar Year 2012	Water Year 2013
Mean	3.89	5.85
Max	12.76	16.00
Min	1.88	1.88

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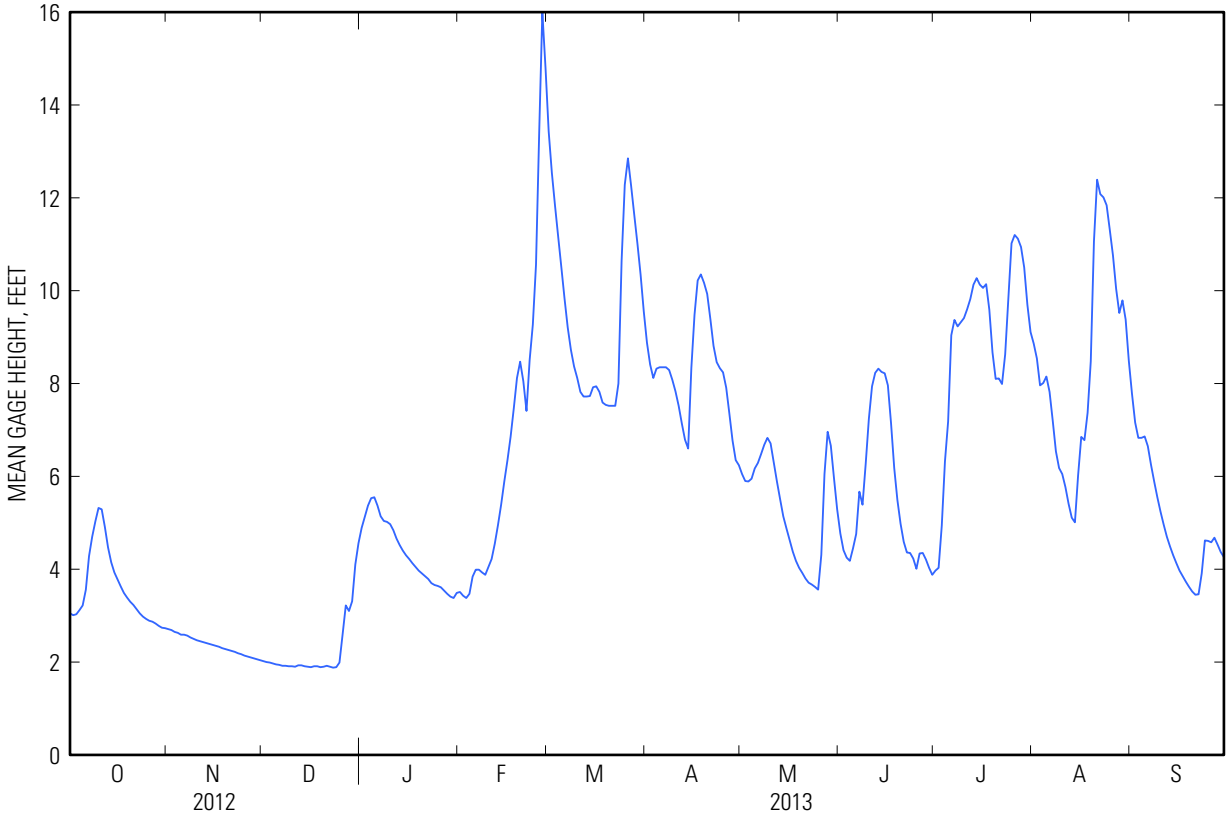


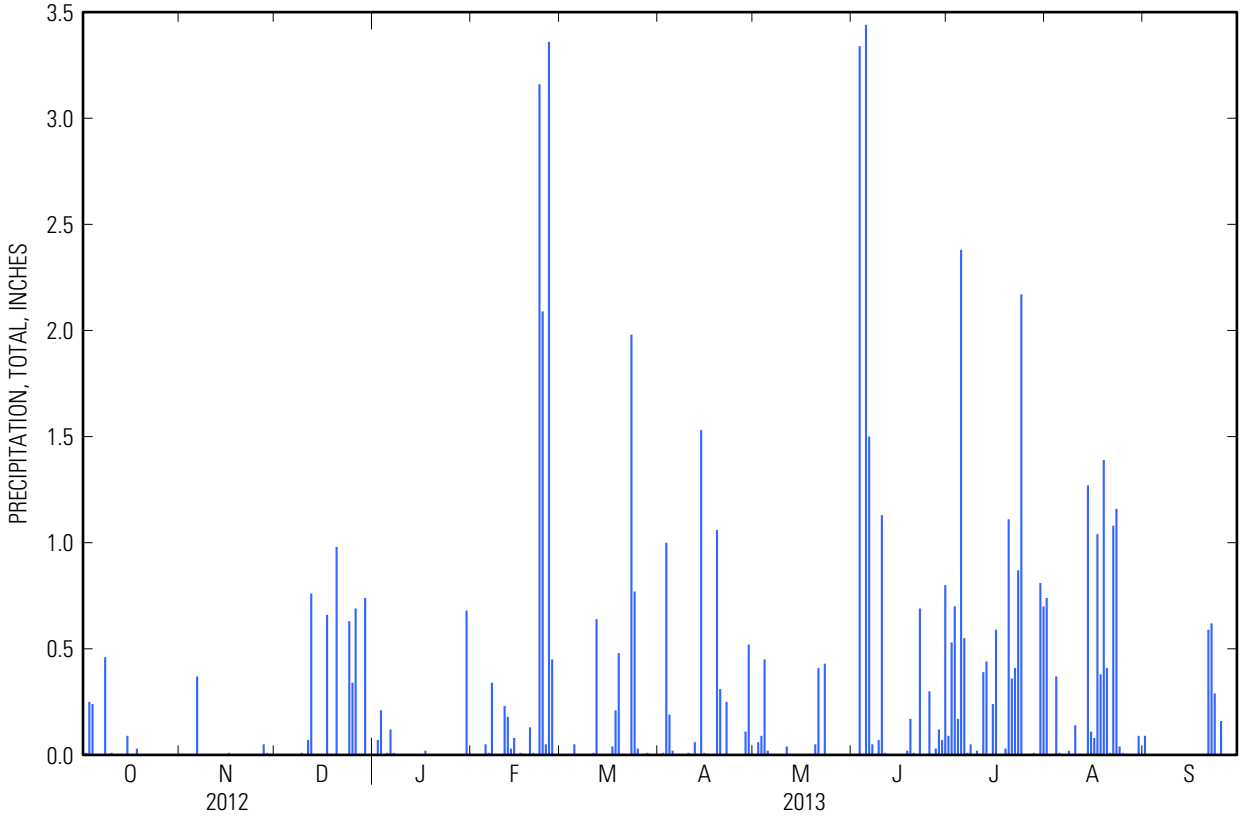
02318700 OKAPILCO CREEK AT GA 33, NEAR QUITMAN, GA—Continued

CLIMATOLOGICAL RECORDS

PERIOD OF RECORD.--October 2000 to current year.

INSTRUMENTATION.--Tipping-bucket raingage.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.74	0.09
2	0.01	0.00	0.00	0.07	0.00	0.00	0.01	0.06	0.00	0.53	0.00	0.00
3	0.25	0.00	0.00	0.21	0.00	0.00	1.00	0.09	3.34	0.70	0.00	0.00
4	0.24	0.00	0.00	0.00	0.00	0.00	0.19	0.45	0.00	0.17	0.37	0.00
5	0.00	0.00	0.00	0.01	0.05	0.05	0.02	0.02	3.44	2.38	0.01	0.00
6	0.00	0.37	0.00	0.12	0.01	0.00	0.00	0.00	1.50	0.55	0.00	0.00
7	0.00	0.00	0.00	0.01	0.34	0.00	0.00	0.00	0.05	0.01	0.00	0.00
8	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.02	0.00
9	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00
10	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	1.13	0.02	0.14	0.00
11	0.00	0.00	0.07	0.00	0.23	0.01	0.00	0.04	0.01	0.00	0.00	0.00
12	0.00	0.00	0.76	0.00	0.18	0.64	0.06	0.00	0.00	0.39	0.00	0.00
13	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.44	0.00	0.00
14	0.00	0.00	0.00	0.00	0.08	0.00	1.53	0.00	0.00	0.00	1.27	0.00
15	0.09	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.24	0.11	0.00
16	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.59	0.08	0.00
17	0.00	0.00	0.66	0.02	0.00	0.04	0.00	0.00	0.00	0.00	1.04	0.00
18	0.03	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.02	0.00	0.38	0.00
19	0.00	0.00	0.00	0.00	0.13	0.48	1.06	0.00	0.17	0.03	1.39	0.00
20	0.00	0.00	0.98	0.00	0.01	0.00	0.31	0.05	0.01	1.11	0.41	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.36	0.01	0.59
22	0.00	0.00	0.00	0.00	3.16	0.00	0.25	0.00	0.69	0.41	1.08	0.62
23	0.00	0.00	0.00	0.00	2.09	1.98	0.00	0.43	0.00	0.87	1.16	0.29
24	0.00	0.00	0.63	0.00	0.05	0.77	0.00	0.00	0.00	2.17	0.04	0.00
25	0.00	0.00	0.34	0.00	3.36	0.03	0.00	0.00	0.30	0.00	0.01	0.16
26	0.00	0.00	0.69	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
28	0.00	0.01	0.00	0.00	0.00	0.01	0.11	0.00	0.12	0.01	0.00	0.00
29	0.00	0.00	0.74	0.00	---	0.00	0.52	0.00	0.07	0.00	0.00	0.00
30	0.00	0.00	0.00	0.68	---	0.00	0.01	0.00	0.80	0.81	0.09	0.00
31	0.00	---	0.00	0.01	---	0.00	---	0.00	---	0.70	0.00	---
Total	1.09	0.44	4.88	1.13	10.18	4.22	5.09	1.55	11.75	12.63	8.35	1.75

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