Water-Data Report 2013

02327355 OCHLOCKONEE RIVER AT GA 188, NEAR COOLIDGE, GA

Ochlockonee Basin
Upper Ochlockonee Subbasin

LOCATION.--Lat 31°00′08″, long 83°56′21″ referenced to North American Datum of 1983, Thomas County, GA, Hydrologic Unit 03120002, 3.1 mi upstream from confluence with Big Creek, 3.5 mi downstream from Bridge Creek, and 4.0 mi west of Coolidge.

DRAINAGE AREA.--260 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--
DISCHARGE: October 1981 to May 2009 (annual maximum only), June 2009 to current year.
GAGE-HEIGHT: October 1981 to May 2009 (annual maximum only), June 2009 to current year.

GAGE.--Satellite telemtry with a water-stage recorder. Datum of gage is 166.4 feet above the North American Vertical Datum (NAVD) of 1988 (leveling by Global Positioning System equipment using GEOID09). Prior to June 2009, crest-stage partial record station at same datum.

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,450 cfs, April 2, 2009; maximum stage recorded, 18.59 feet, April 2, 2009; minimum daily discharge, 0.0 cfs, September 2-4, 13-25, 2011 and October 8-9, 2011.

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 11,200 cfs, February 26; maximum gage height recorded, 17.27 feet, February 26; minimum gage height recorded, 1.78 feet, November 4, 5, 6, 14; minimum daily discharge, 1.7 cfs, November 5, 14.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.3	2.4	3.1	145	32	2,910	291	97	43	209	283	347
2	18	2.1	3.7	147	45	1,870	251	92	31	244	379	401
3	70	2.0	3.8	129	51	1,290	219	110	24	302	241	303
4	138	1.8	3.6	123	50	889	253	131	18	405	158	288
5	192	1.7	3.4	124	44	652	280	176	21	383	139	295
6	190	1.9	3.2	122	38	514	301	190	90	489	138	241
7	169	1.9	3.2	113	34	422	314	189	190	521	122	189
8	114	2.0	3.3	98	41	366	301	175	301	522	123	161
9	77	2.0	3.4	84	61	324	256	157	436	740	96	143
10	56	2.1	3.0	74	108	288	210	135	1,070	1,060	76	114
11	44	2.2	2.2	65	148	262	174	98	1,510	1,080	63	92
12	36	1.9	3.4	60	232	277	153	69	1,430	1,140	52	74
13	29	1.8	4.7	57	373	310	143	49	895	919	41	60
14	24	1.7	5.1	54	563	335	149	34	546	951	32	49
15	20	1.9	10	52	1,860	332	388	26	341	694	107	41
16	17	2.0	14	50	2,670	315	489	18	223	534	127	34
17	14	1.9	14	46	1,690	281	558	13	151	863	1,090	27
18	12	2.0	13	43	1,030	252	553	8.8	107	786	6,200	23
19	11	2.6	11	42	665	262	457	6.0	101	544	5,120	21
20	9.2	2.6	14	43	481	300	497	4.3	90	359	4,820	25
21	7.9	2.3	24	43	386	344	572	4.1	62	379	3,850	38
22	6.7	2.0	27	40	375	331	674	4.5	49	506	3,880	41
23	5.7	2.1	42	37	965	327	640	16	47	611	3,260	40
24	5.0	2.4	46	36	2,160	938	489	76	43	757	2,320	40
25	4.4	2.1	52	33	6,060	1,100	355	89	43	1,130	1,950	49
26	4.1	1.9	92	31	e11,100	1,240	264	122	43	1,760	3,170	68
27	3.7	2.0	119	28	e7,820	1,400	197	218	37	1,090	1,810	87
28	3.4	2.5	142	26	4,890	911	158	292	39	599	993	85
29	3.2	2.6	142	25	---	610	132	198	75	380	565	76
30	3.0	2.6	134	25	---	449	114	104	154	273	365	64
31	2.6	---	137	29	---	341	---	64	---	237	287	---
Mean	41.7	2.10	34.9	65.3	1,570	659	328	95.7	274	660	1,350	117
Max	192	2.6	142	147	11,100	2,910	674	292	1,510	1,760	6,200	401
Min	2.3	1.7	2.2	25	32	252	114	4.1	18	209	32	21
Med	14	2.0	11	50	380	344	286	92	90	544	287	71
Ac-ft	2,560	125	2,150	4,010	87,220	40,550	19,500	5,880	16,280	40,600	83,020	6,970
Cfsm	0.16	0.01	0.13	0.25	6.04	2.54	1.26	0.37	1.05	2.54	5.19	0.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2009 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	26.0	14.0	171	260	634	389	158	115	93.8	148	297	41.5
Max	56.5	49.2	643	950	1,570	659	328	356	274	660	1,350	117
(WY)	(2010)	(2010)	(2010)	(2010)	(2013)	(2013)	(2013)	(2010)	(2013)	(2013)	(2013)	(2013)
Min	2.09	1.10	2.97	9.26	54.3	95.4	25.9	2.45	0.56	4.47	3.55	0.39
(WY)	(2011)	(2012)	(2011)	(2012)	(2012)	(2011)	(2012)	(2011)	(2011)	(2011)	(2011)	(2011)

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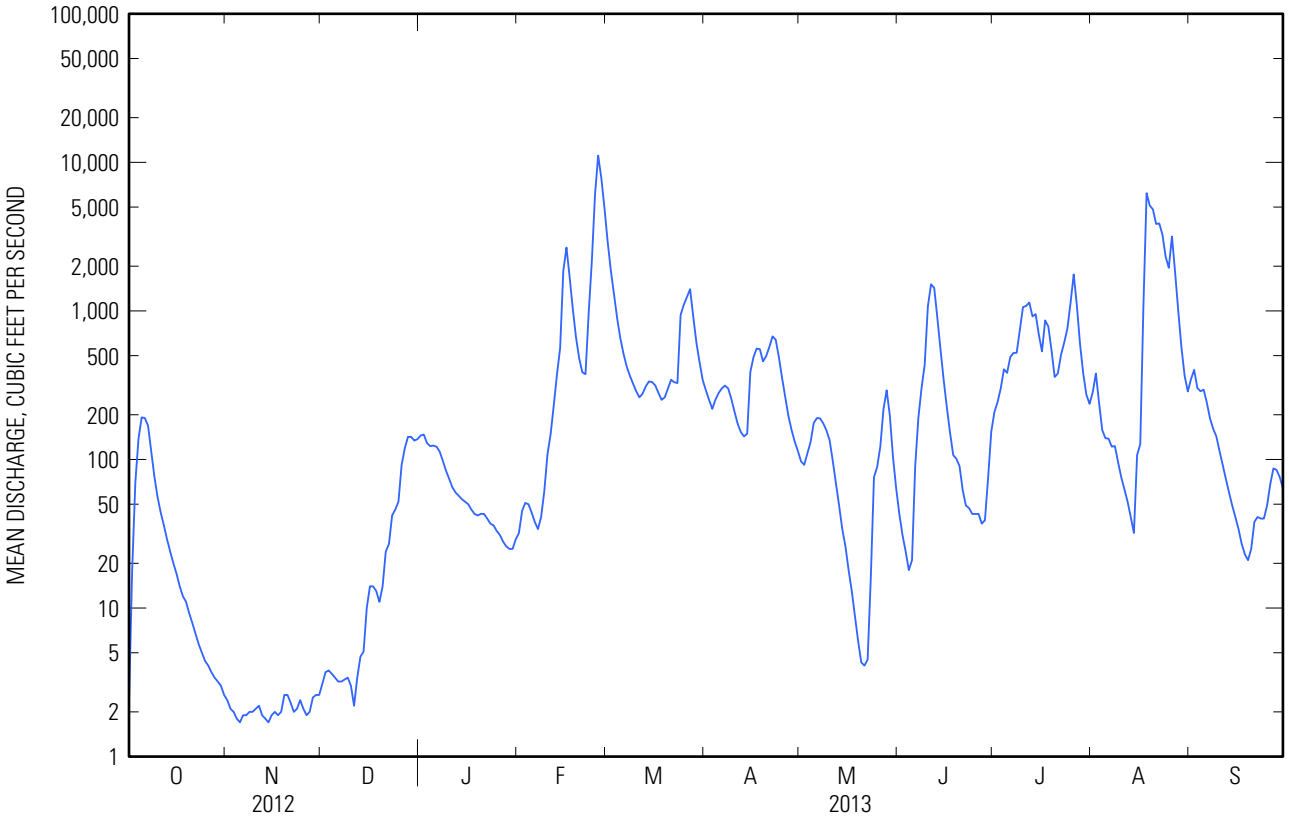
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 2009 - 2013	
Annual mean	51.4		427		201	
Highest annual mean					427	2013
Lowest annual mean					32.2	2011
Highest daily mean	1,040	Mar 7	[e]11,100	Feb 26	11,100	Feb 26, 2013
Lowest daily mean	1.3	May 31	1.7	Nov 5[a]	0.00	Sep 2, 2011[b]
Annual seven-day minimum	1.6	May 26	1.9	Nov 12	0.00	Sep 13, 2011
Maximum peak flow			11,200	Feb 26	15,400	Apr 2, 2009
Maximum peak stage			17.27	Feb 26	[c]18.59	Apr 2, 2009
Annual runoff (ac-ft)	37,310		308,900		145,500	
Annual runoff (cfsm)	0.198		1.64		0.772	
10 percent exceeds	135		976		500	
50 percent exceeds	13		114		24	
90 percent exceeds	2.4		3.2		1.4	

[e] Estimated.
[a] Also November 14.
[b] Also September 3-4, 13-25, 2011 and October 8-9, 2011.
[c] From crest-stage gage.



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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	1.86	1.82	1.85	4.27	2.46	12.69	5.98	3.76	2.58	5.06	5.87	6.52
2	2.23	1.81	1.88	4.30	2.69	11.46	5.58	3.70	2.37	5.47	6.82	7.01
3	3.17	1.80	1.88	4.05	2.79	10.39	5.25	3.94	2.26	6.08	5.41	6.09
4	4.17	1.79	1.88	3.96	2.78	9.33	5.61	4.22	2.17	7.05	4.40	5.94
5	4.88	1.78	1.86	3.98	2.66	8.44	5.87	4.78	2.22	6.85	4.15	6.01
6	4.85	1.79	1.85	3.95	2.57	7.78	6.07	4.95	3.38	7.63	4.13	5.44
7	4.58	1.79	1.85	3.81	2.50	7.18	6.21	4.93	4.82	7.83	3.90	4.81
8	3.82	1.80	1.86	3.58	2.62	6.71	6.07	4.76	6.06	7.83	3.91	4.46
9	3.24	1.80	1.86	3.36	2.97	6.30	5.64	4.56	7.24	8.78	3.49	4.20
10	2.87	1.81	1.85	3.20	3.73	5.94	5.16	4.28	9.79	9.89	3.16	3.78
11	2.66	1.81	1.81	3.05	4.30	5.68	4.74	3.77	10.82	9.94	2.94	3.45
12	2.52	1.80	1.87	2.96	5.33	5.83	4.51	3.34	10.66	10.09	2.74	3.14
13	2.42	1.79	1.93	2.90	6.76	6.16	4.38	3.01	9.34	9.44	2.54	2.89
14	2.33	1.79	1.94	2.85	8.00	6.41	4.45	2.76	7.92	9.54	2.39	2.69
15	2.27	1.79	2.08	2.81	11.13	6.38	6.90	2.63	6.46	8.61	3.64	2.55
16	2.21	1.80	2.17	2.77	12.45	6.21	7.62	2.50	5.22	7.89	3.97	2.43
17	2.17	1.80	2.17	2.70	11.14	5.88	8.04	2.42	4.31	9.24	8.68	2.32
18	2.13	1.80	2.15	2.65	9.76	5.58	8.01	2.33	3.67	8.97	15.07	2.26
19	2.10	1.83	2.12	2.62	8.49	5.68	7.42	2.24	3.57	7.91	14.44	2.22
20	2.07	1.83	2.16	2.64	7.57	6.06	7.67	2.18	3.40	6.64	14.24	2.29
21	2.03	1.82	2.32	2.64	6.89	6.50	8.10	2.17	2.92	6.80	13.53	2.50
22	2.00	1.80	2.38	2.59	6.74	6.37	8.54	2.19	2.68	7.73	13.56	2.56
23	1.96	1.81	2.63	2.55	9.47	6.30	8.40	2.42	2.65	8.27	13.02	2.54
24	1.94	1.82	2.71	2.52	11.83	9.41	7.62	3.40	2.58	8.86	12.06	2.55
25	1.91	1.81	2.81	2.48	14.85	9.97	6.60	3.54	2.58	9.97	11.57	2.70
26	1.90	1.80	3.49	2.44	---	10.29	5.71	3.98	2.57	11.28	12.94	3.05
27	1.88	1.80	3.90	2.40	---	10.62	5.01	5.17	2.48	9.90	11.33	3.36
28	1.87	1.82	4.23	2.36	14.27	9.40	4.56	5.98	2.51	8.18	9.63	3.34
29	1.86	1.83	4.23	2.34	---	8.26	4.24	4.91	3.15	6.82	8.01	3.19
30	1.84	1.83	4.11	2.34	---	7.36	4.00	3.61	4.33	5.79	6.68	2.97
31	1.83	---	4.16	2.41	---	6.47	---	2.95	---	5.39	5.93	---
Mean	2.57	1.81	2.45	3.02	---	7.65	6.13	3.59	4.56	8.06	7.55	3.64
Max	4.88	1.83	4.23	4.30	---	12.69	8.54	5.98	10.82	11.28	15.07	7.01
Min	1.83	1.78	1.81	2.34	---	5.58	4.00	2.17	2.17	5.06	2.39	2.22

	Calendar Year 2012
Mean	2.58
Max	9.82
Min	1.67

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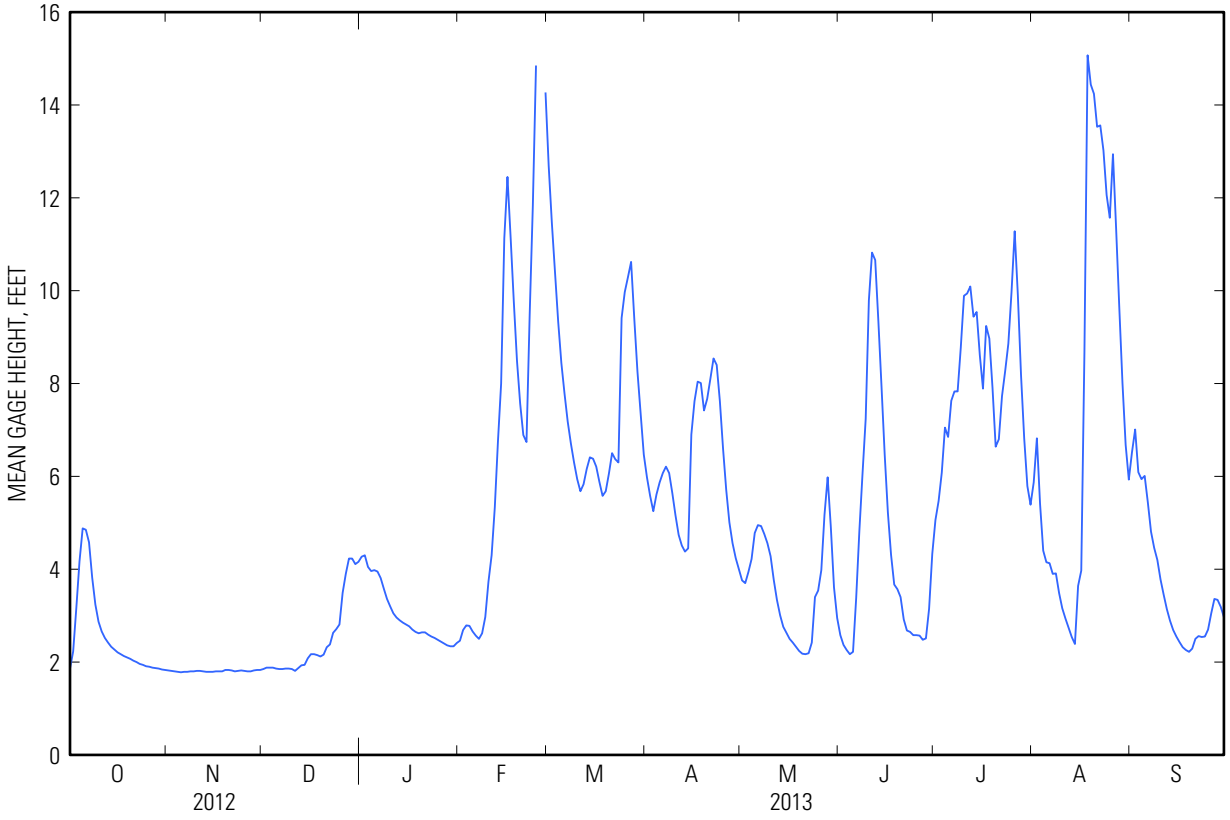

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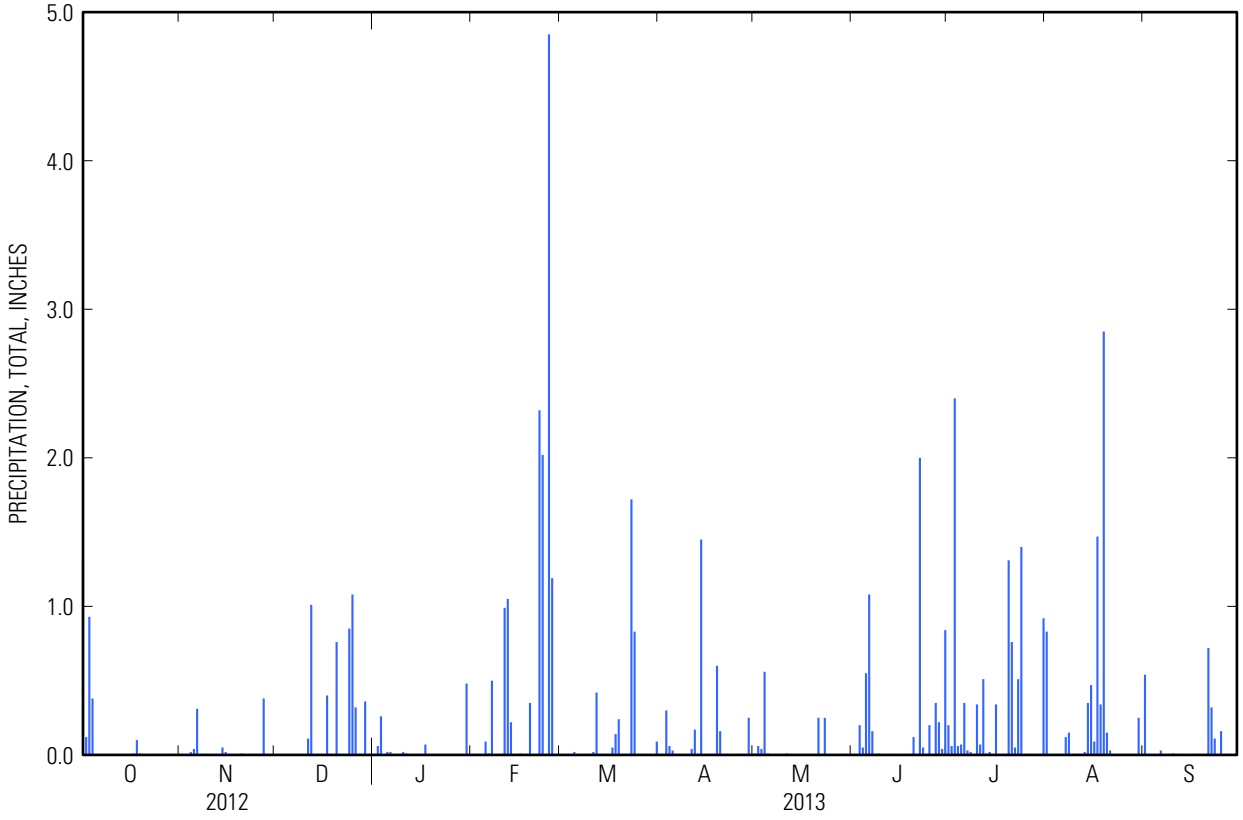
CLIMATOLOGICAL RECORDS

PERIOD OF RECORD.--August 2011 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	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.20	0.83	0.54
2	0.12	0.00	0.00	0.06	0.00	0.00	0.00	0.06	0.00	0.06	0.00	0.00
3	0.93	0.00	0.00	0.26	0.00	0.00	0.30	0.04	0.20	2.40	0.00	0.00
4	0.38	0.02	0.00	0.00	0.00	0.00	0.06	0.56	0.05	0.06	0.00	0.00
5	0.00	0.04	0.00	0.02	0.09	0.02	0.03	0.01	0.55	0.07	0.00	0.00
6	0.00	0.31	0.00	0.02	0.01	0.00	0.00	0.00	1.08	0.35	0.00	0.03
7	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.16	0.03	0.12	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.15	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
10	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.01
11	0.00	0.00	0.11	0.01	0.99	0.02	0.04	0.01	0.00	0.07	0.00	0.00
12	0.00	0.00	1.01	0.00	1.05	0.42	0.17	0.00	0.00	0.51	0.00	0.00
13	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.01	0.02	0.00
14	0.00	0.05	0.00	0.00	0.00	0.00	1.45	0.00	0.00	0.02	0.35	0.00
15	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00
16	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.34	0.09	0.00
17	0.01	0.00	0.40	0.07	0.00	0.05	0.00	0.00	0.00	0.00	1.47	0.00
18	0.10	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.34	0.00
19	0.01	0.00	0.00	0.00	0.35	0.24	0.60	0.00	0.00	0.00	2.85	0.00
20	0.00	0.01	0.76	0.00	0.00	0.00	0.16	0.00	0.12	1.31	0.15	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.76	0.03	0.72
22	0.00	0.00	0.00	0.00	2.32	0.00	0.00	0.00	2.00	0.05	0.00	0.32
23	0.00	0.00	0.00	0.00	2.02	1.72	0.00	0.25	0.05	0.51	0.00	0.11
24	0.00	0.00	0.85	0.00	0.00	0.83	0.00	0.00	0.00	1.40	0.00	0.00
25	0.00	0.00	1.08	0.00	4.85	0.00	0.00	0.00	0.20	0.00	0.00	0.16
26	0.00	0.00	0.32	0.00	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00
29	0.00	0.00	0.36	0.00	---	0.00	0.25	0.00	0.04	0.00	0.00	0.00
30	0.00	0.00	0.00	0.48	---	0.00	0.00	0.00	0.84	0.00	0.25	0.00
31	0.00	---	0.00	0.00	---	0.09	---	0.00	---	0.92	0.00	---
Total	2.87	0.83	4.89	0.94	13.60	3.53	3.06	1.19	5.87	9.43	7.12	1.89

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