Water-Data Report 2013

02225000 ALTAMAHA RIVER NEAR BAXLEY, GA

Altamaha Basin
Altamaha Subbasin

LOCATION.--Lat 31°56′20″, long 82°21′13″ referenced to North American Datum of 1927, Appling County, GA, Hydrologic Unit 03070106, on right bank 400 feet downstream from bridge on U.S. 1, 2.2 miles upstream from Bay Creek, 8.0 miles downstream from Bullards Creek, and 12.0 miles north of Baxley.

DRAINAGE AREA.--11,600 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--
DISCHARGE: August 1949 to June 1951, October 1970 to current year.
GAGE-HEIGHT: August 1949 to June 1951, October 1999 to current year.

GAGE.--Satellite transmitter with a water-stage recorder. Datum of gage is 60.7 feet above North American Vertical Datum (NAVD) of 1988. From August 13, 1949, to June 30, 1951, a non-recording gage was located at site 400 feet upstream at same datum.

COOPERATION.--Georgia Power Corporation.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 142,000 cfs, March 16, 1998; maximum gage-height recorded, 24.15 feet, March 16, 1998; minimum daily discharge, 1,140 cfs, September 19, 2011.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 10, 1948, reached a stage of 25.1 feet, from flood marks, discharge, 130,000 cfs. Flood of January 1925 reached a stage of 30.0 feet, from information furnished by Georgia Department of Transportation.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 25,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb 28	2245	*52,000	*17.72
Mar 7	0215	49,800	17.48
May 16	1230	29,400	14.25
Jul 19	0730	40,300	16.33
Aug 27	0400	38,900	16.13

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 02225000, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/02225000.2013.pdf

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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	1,370	1,260	1,350	5,520	3,190	51,400	27,300	8,370	7,620	10,300	17,100	23,300
2	1,360	1,260	1,350	6,650	3,060	50,000	28,300	7,950	7,390	11,700	14,900	19,000
3	1,340	1,260	1,360	6,530	3,010	48,600	28,600	8,920	6,590	12,100	13,700	16,500
4	1,350	1,260	1,380	6,100	3,500	48,000	27,700	10,300	5,750	12,500	12,300	14,600
5	1,370	1,260	1,380	5,960	4,850	48,200	25,400	11,400	5,740	14,400	10,800	12,800
6	1,410	1,260	1,390	e5,800	4,890	49,200	23,600	12,700	6,230	17,500	10,000	10,900
7	1,440	1,260	1,380	e5,670	4,970	49,300	22,800	13,900	6,980	20,500	9,840	9,140
8	1,490	1,260	1,380	5,480	5,880	47,700	21,600	14,900	8,140	22,700	9,520	8,080
9	1,690	1,260	1,380	5,310	6,830	44,300	20,000	15,700	9,870	24,200	8,860	7,600
10	2,000	1,260	1,380	5,570	7,350	38,900	18,600	16,500	11,600	26,100	8,120	7,240
11	2,220	1,260	1,390	5,490	7,590	33,000	17,700	17,500	12,800	28,300	7,680	6,760
12	2,180	1,260	1,480	4,870	8,720	27,900	16,400	19,200	13,300	30,600	7,290	6,240
13	2,000	1,270	1,650	4,150	12,300	23,700	14,900	21,800	12,900	33,000	7,210	5,720
14	1,840	1,280	1,720	3,640	16,300	19,900	14,100	25,100	12,500	34,300	7,140	5,290
15	1,750	1,300	1,680	3,330	18,500	17,000	14,600	27,900	12,500	34,300	8,020	4,970
16	1,690	1,300	1,630	3,080	20,200	15,300	16,000	29,200	12,800	35,300	9,280	4,720
17	1,600	1,310	1,600	2,930	20,900	14,100	17,000	27,400	12,700	38,000	12,100	4,530
18	1,540	1,310	1,660	2,900	21,100	13,600	16,900	22,700	11,800	39,900	15,600	4,270
19	1,490	1,320	1,730	3,160	21,600	13,400	16,100	19,600	10,200	39,900	23,200	4,110
20	1,440	1,320	1,790	3,240	22,600	13,400	15,200	17,800	9,350	39,300	27,800	4,040
21	1,400	1,330	1,810	3,440	24,200	13,400	14,600	15,700	9,310	38,100	31,300	4,020
22	1,380	1,330	1,840	4,710	24,900	13,500	13,900	12,900	9,190	36,100	35,100	4,000
23	1,360	1,330	1,930	6,050	25,000	13,900	13,400	10,600	9,140	33,400	37,200	4,010
24	1,350	1,320	e2,020	6,160	28,600	14,900	13,000	9,900	9,530	30,200	37,200	4,190
25	1,340	1,320	e2,140	5,930	35,300	17,200	12,900	10,100	9,610	27,800	38,000	4,330
26	1,340	1,320	e2,260	5,770	43,900	20,100	12,300	9,910	8,790	26,500	38,600	4,410
27	1,330	1,330	2,340	5,510	50,100	22,500	11,000	9,160	8,310	25,400	38,600	4,630
28	1,320	1,350	2,470	4,780	51,600	23,700	9,860	8,820	8,400	23,300	37,800	4,800
29	1,300	1,340	2,730	4,160	---	24,200	9,130	8,510	8,630	20,700	36,200	4,940
30	1,280	1,340	3,010	3,650	---	24,900	8,790	8,050	8,920	19,500	33,500	4,870
31	1,270	---	3,690	3,360	---	26,100	---	7,740	---	18,900	28,900	---
Total	47,240	38,840	56,300	148,900	500,940	881,300	521,680	460,230	286,590	824,800	632,860	224,010
Mean	1,524	1,295	1,816	4,803	17,890	28,430	17,390	14,850	9,553	26,610	20,410	7,467
Max	2,220	1,350	3,690	6,650	51,600	51,400	28,600	29,200	13,300	39,900	38,600	23,300
Min	1,270	1,260	1,350	2,900	3,010	13,400	8,790	7,740	5,740	10,300	7,140	4,000
Cfsm	0.13	0.11	0.16	0.41	1.54	2.45	1.50	1.28	0.82	2.29	1.76	0.64
In.	0.15	0.12	0.18	0.48	1.61	2.83	1.67	1.48	0.92	2.65	2.03	0.72

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5,445	5,707	9,867	14,460	20,400	23,080	18,380	9,119	6,754	6,442	5,841	4,711
Max	24,560	20,890	41,750	46,750	60,420	65,210	53,970	20,630	23,340	32,470	20,410	17,290
(WY)	(1995)	(2010)	(2010)	(1998)	(1998)	(1998)	(2009)	(1975)	(2003)	(1994)	(2013)	(2004)
Min	1,432	1,295	1,816	3,395	4,382	7,097	2,941	1,966	1,877	1,527	1,406	1,229
(WY)	(2012)	(2013)	(2013)	(1981)	(2009)	(2012)	(2012)	(2012)	(2000)	(2012)	(2011)	(2011)

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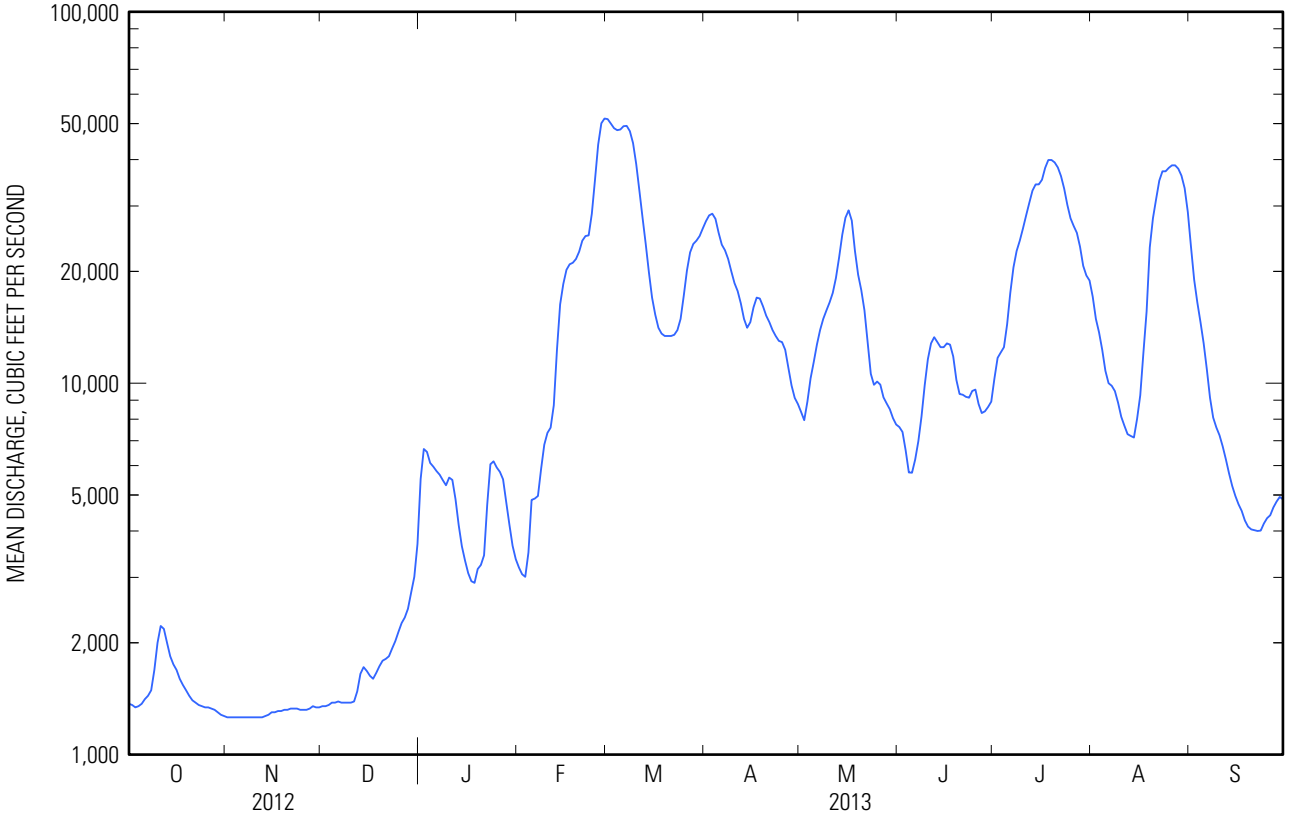
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1949 - 2013	
Annual total	971,990		4,623,690			
Annual mean	2,656		12,670		10,860	
Highest annual mean					25,530	1998
Lowest annual mean					2,687	2012
Highest daily mean	9,950	Mar 8	51,600	Feb 28	142,000	Mar 16, 1998
Lowest daily mean	1,260	Nov 1	1,260	Nov 1[a]	1,140	Sep 19, 2011
Annual seven-day minimum	1,260	Nov 1	1,260	Nov 1	1,150	Sep 17, 2011
Maximum peak flow			52,000	Feb 28	144,000	Mar 16, 1998
Maximum peak stage			17.72	Feb 28	24.15	Mar 16, 1998
Annual runoff (cfsm)	0.229		1.09		0.936	
Annual runoff (inches)	3.12		14.83		12.72	
10 percent exceeds	5,610		30,900		24,600	
50 percent exceeds	1,840		8,820		6,440	
90 percent exceeds	1,340		1,340		2,170	

[a] Also November 2-12.



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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	0.54	0.36	0.50	4.80	2.80	17.65	13.79	6.76	6.30	7.86	11.01	12.82
2	0.52	0.36	0.51	5.61	2.67	17.50	14.00	6.51	6.16	8.58	10.09	11.67
3	0.49	0.36	0.53	5.53	2.61	17.35	14.07	7.09	5.63	8.79	9.52	10.76
4	0.50	0.36	0.55	5.22	3.09	17.28	13.88	7.83	5.04	8.96	8.87	9.96
5	0.54	0.35	0.56	5.13	4.28	17.31	13.34	8.42	5.03	9.85	8.13	9.12
6	0.60	0.36	0.57	---	4.31	17.41	12.92	9.05	5.38	11.15	7.70	8.15
7	0.65	0.35	0.56	---	4.38	17.43	12.70	9.64	5.89	12.10	7.60	7.21
8	0.73	0.35	0.56	4.77	5.07	17.25	12.39	10.08	6.62	12.68	7.43	6.59
9	1.01	0.35	0.56	4.65	5.73	16.85	11.96	10.43	7.62	13.05	7.05	6.29
10	1.44	0.35	0.55	4.84	6.07	16.12	11.56	10.76	8.53	13.51	6.61	6.06
11	1.72	0.36	0.56	4.78	6.23	15.00	11.24	11.17	9.11	14.02	6.34	5.74
12	1.68	0.36	0.70	4.30	6.96	13.91	10.70	11.73	9.33	14.50	6.09	5.38
13	1.44	0.37	0.97	3.69	8.94	12.93	10.09	12.45	9.18	15.00	6.04	5.01
14	1.23	0.39	1.06	3.24	10.83	11.92	9.72	13.26	8.99	15.27	6.00	4.69
15	1.11	0.42	1.01	2.94	11.69	10.98	9.95	13.93	8.99	15.27	6.55	4.44
16	1.02	0.43	0.93	2.69	12.25	10.25	10.53	14.21	9.11	15.46	7.29	4.25
17	0.89	0.44	0.89	2.53	12.50	9.74	10.95	13.81	9.08	15.98	8.78	4.09
18	0.80	0.44	0.97	2.50	12.57	9.47	10.94	12.66	8.65	16.27	10.38	3.87
19	0.73	0.45	1.08	2.77	12.71	9.41	10.57	11.85	7.82	16.28	12.79	3.73
20	0.64	0.46	1.17	2.85	13.03	9.41	10.22	11.27	7.34	16.19	13.90	3.67
21	0.59	0.47	1.19	3.04	13.43	9.40	9.93	10.42	7.31	16.00	14.65	3.65
22	0.55	0.47	1.23	4.16	13.60	9.45	9.64	9.18	7.24	15.63	15.43	3.63
23	0.53	0.46	1.35	5.19	13.62	9.62	9.38	8.01	7.21	15.09	15.84	3.64
24	0.51	0.46	---	5.27	14.41	10.06	9.21	7.64	7.44	14.42	15.84	3.80
25	0.49	0.46	---	5.10	15.58	11.06	9.19	7.75	7.48	13.89	15.99	3.92
26	0.49	0.45	---	4.99	16.79	11.99	8.85	7.64	7.01	13.59	16.08	3.99
27	0.47	0.47	1.86	4.80	17.52	12.62	8.22	7.22	6.73	13.35	16.09	4.17
28	0.46	0.50	2.02	4.23	17.67	12.94	7.61	7.03	6.78	12.84	15.95	4.31
29	0.43	0.49	2.31	3.70	---	13.05	7.20	6.84	6.92	12.16	15.65	4.42
30	0.38	0.49	2.61	3.24	---	13.22	7.01	6.57	7.09	11.81	15.11	4.37
31	0.37	---	3.27	2.97	---	13.50	---	6.38	---	11.63	14.12	---
Mean	0.76	0.41	---	---	9.69	13.29	10.73	9.60	7.37	13.26	10.93	5.78
Max	1.72	0.50	---	---	17.67	17.65	14.07	14.21	9.33	16.28	16.09	12.82
Min	0.37	0.35	---	---	2.61	9.40	7.01	6.38	5.03	7.86	6.00	3.63

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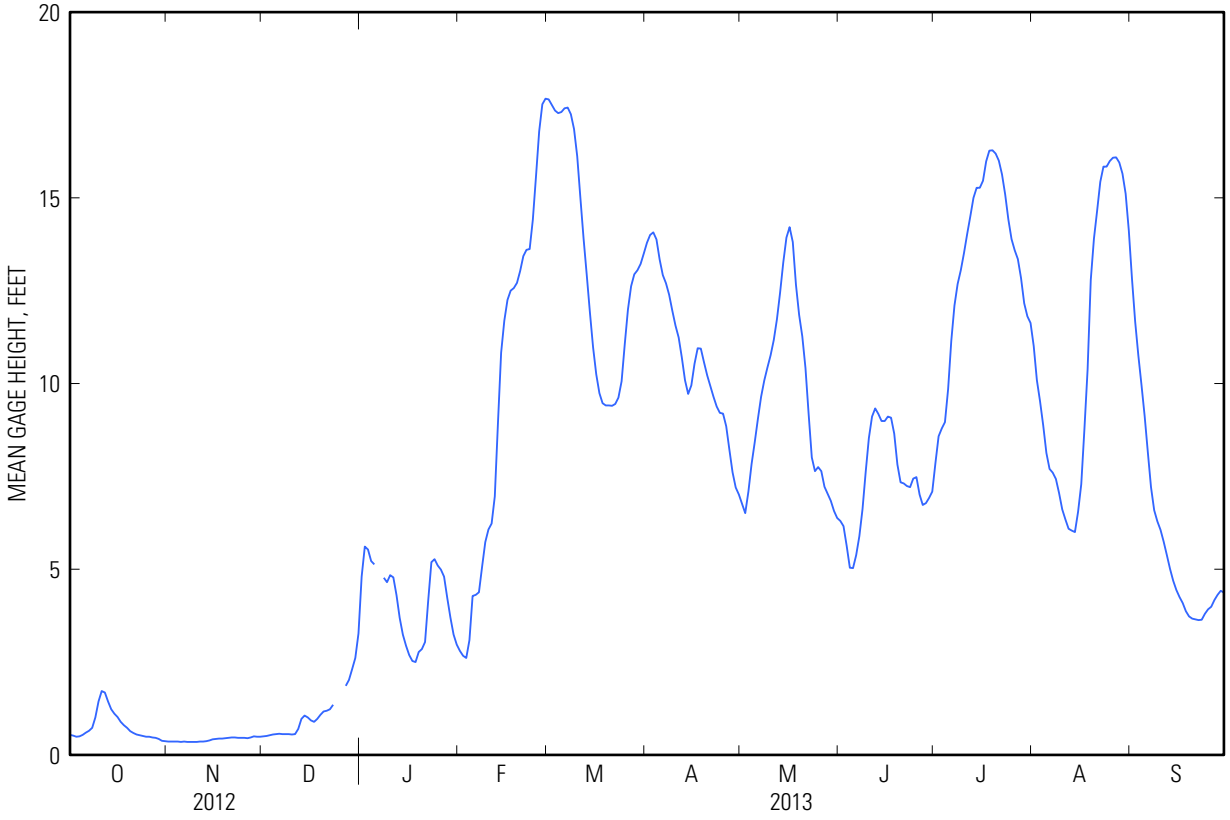

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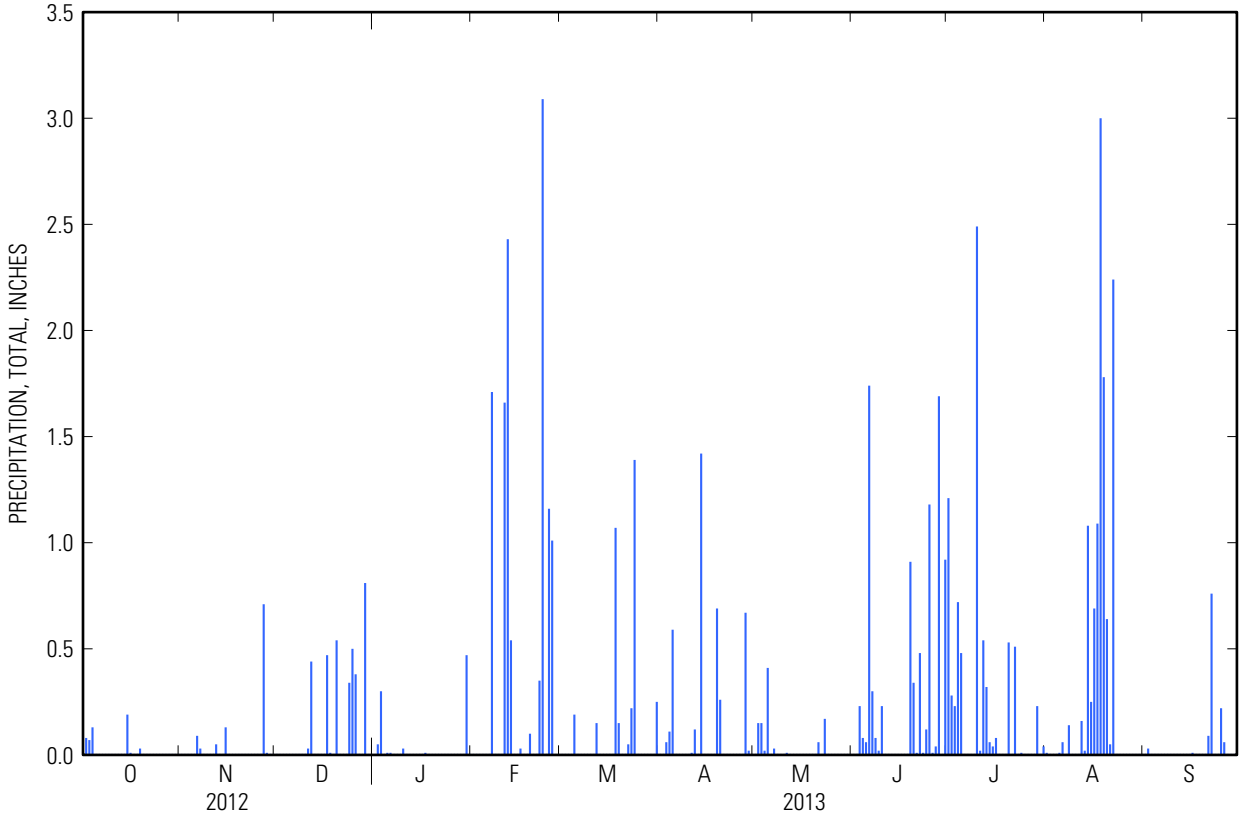
CLIMATOLOGICAL RECORDS

PERIOD OF RECORD.--September 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	1.21	0.01	0.00
2	0.08	0.00	0.00	0.05	0.00	0.00	0.00	0.15	0.00	0.28	0.00	0.03
3	0.07	0.00	0.00	0.30	0.00	0.00	0.06	0.15	0.23	0.23	0.00	0.00
4	0.13	0.00	0.00	0.00	0.00	0.00	0.11	0.02	0.08	0.72	0.00	0.00
5	0.00	0.00	0.00	0.01	0.00	0.19	0.59	0.41	0.06	0.48	0.01	0.00
6	0.00	0.09	0.00	0.01	0.00	0.00	0.00	0.00	1.74	0.00	0.06	0.00
7	0.00	0.03	0.00	0.00	1.71	0.00	0.00	0.03	0.30	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.14	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
10	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.23	2.49	0.00	0.00
11	0.00	0.00	0.03	0.00	1.66	0.00	0.01	0.01	0.00	0.02	0.00	0.00
12	0.00	0.05	0.44	0.00	2.43	0.15	0.12	0.00	0.00	0.54	0.16	0.00
13	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.32	0.02	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.06	1.08	0.00
15	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.25	0.00
16	0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.08	0.69	0.01
17	0.00	0.00	0.47	0.01	0.00	0.00	0.00	0.00	0.00	0.00	1.09	0.00
18	0.00	0.00	0.01	0.00	0.00	1.07	0.00	0.00	0.00	0.00	3.00	0.00
19	0.03	0.00	0.00	0.00	0.10	0.15	0.69	0.00	0.91	0.00	1.78	0.00
20	0.00	0.00	0.54	0.00	0.00	0.00	0.26	0.00	0.34	0.53	0.64	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.01	0.00	0.05	0.09
22	0.00	0.00	0.00	0.00	0.35	0.05	0.00	0.00	0.48	0.51	2.24	0.76
23	0.00	0.00	0.00	0.00	3.09	0.22	0.00	0.17	0.01	0.00	0.00	0.00
24	0.00	0.00	0.34	0.00	0.00	1.39	0.00	0.00	0.12	0.01	0.00	0.00
25	0.00	0.00	0.50	0.00	1.16	0.00	0.00	0.00	1.18	0.00	0.00	0.22
26	0.00	0.00	0.38	0.00	1.01	0.00	0.00	0.00	0.01	0.00	0.00	0.06
27	0.00	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
28	0.00	0.01	0.00	0.00	0.00	0.00	0.67	0.00	1.69	0.00	0.00	0.00
29	0.00	0.00	0.81	0.00	---	0.00	0.02	0.00	0.00	0.23	0.00	0.00
30	0.00	0.00	0.00	0.47	---	0.00	0.00	0.00	0.92	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.25	---	0.00	---	0.04	0.00	---
Total	0.51	1.02	3.52	0.88	12.08	3.47	3.95	1.00	8.45	7.79	11.22	1.17

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