Water-Data Report 2013

02376033 ESCAMBIA RIVER NEAR MOLINO, FL

Escambia Basin
Escambia Subbasin

LOCATION.--Lat 30°40′12″, long 87°16′01″ referenced to North American Datum of 1927, in SE ¼ sec.20, T.2 N., R.20 W., Escambia County, FL, Hydrologic Unit 03140305, near right bank on downstream side of bridge on State Highway 184, 4.1 mi northeast of Cottage Hill, 5.5 mi southeast of Molino, and 14 mi above mouth.

DRAINAGE AREA.--4,147 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1960 to September 1981 (gage heights and discharge measurements only). October 1983 to September 1987 (Daily discharges not computed for days with instantaneous gage heights below 1.5 ft), October 1987 to September 1994, October 1996 to current year.

GAGE.--Water-stage recorder, index-velocity meter, and data-collection platform. Elevation of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor.

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 02376033, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/02376033.2013.pdf

02376033 ESCAMBIA RIVER NEAR MOLINO, FL—Continued

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	2,240	1,240	1,490	9,430	3,740	24,600	8,670	3,650	1,410	2,030	9,670	3,680
2	2,780	1,220	1,370	8,690	4,460	25,400	7,240	3,630	1,480	2,570	10,000	3,520
3	3,220	1,210	1,310	7,210	5,240	24,400	5,900	4,080	1,580	2,810	10,000	3,520
4	3,480	1,200	1,480	5,280	5,610	23,200	5,860	4,790	1,810	3,020	9,670	3,700
5	3,330	1,170	1,450	5,030	5,420	22,200	5,320	4,750	2,180	3,020	9,470	4,150
6	2,860	1,230	1,330	4,850	5,100	21,500	5,320	4,460	2,460	3,430	9,770	4,240
7	2,520	1,300	1,230	4,740	5,090	20,600	5,380	5,230	2,290	4,550	10,200	3,900
8	2,330	1,340	1,250	4,500	5,160	19,300	5,310	5,780	2,110	4,960	10,300	3,570
9	2,030	1,230	1,240	4,170	5,470	17,300	5,120	5,750	2,330	4,980	9,920	3,120
10	1,830	1,150	1,300	3,940	6,970	14,900	4,710	4,970	2,850	5,450	9,060	3,020
11	1,680	1,120	1,460	3,710	8,900	12,900	4,490	4,620	3,230	7,790	8,340	2,880
12	1,550	1,200	1,500	3,570	9,370	11,500	4,650	4,320	3,330	10,200	7,800	2,570
13	1,470	e1,160	e1,530	3,400	10,100	10,500	4,920	3,810	3,110	10,000	8,190	2,310
14	1,510	1,160	e1,620	3,250	12,300	10,100	6,280	3,110	2,640	10,100	7,290	2,150
15	1,570	1,230	1,440	3,130	16,700	10,700	9,430	2,980	2,340	10,000	5,680	1,930
16	1,390	1,290	1,460	3,430	20,800	11,200	11,200	2,680	2,380	9,630	5,230	1,730
17	1,360	1,300	1,620	4,030	22,600	11,100	12,400	2,470	2,350	9,230	5,210	1,870
18	1,380	1,320	2,440	4,730	22,500	10,600	13,500	2,320	2,130	8,870	6,740	1,780
19	1,900	1,350	2,820	5,510	21,900	10,000	14,300	2,210	2,140	8,730	8,840	1,750
20	2,870	1,390	2,980	6,480	21,300	9,280	14,300	2,080	2,260	8,790	9,740	1,890
21	3,350	1,260	2,970	8,370	21,100	8,320	13,700	2,050	2,440	8,570	10,700	2,100
22	3,100	1,240	2,720	8,710	21,200	8,740	12,800	2,050	2,640	7,790	10,900	1,990
23	2,320	1,390	2,960	7,490	20,600	8,900	11,800	2,070	2,680	5,530	10,900	2,260
24	1,810	1,320	3,070	5,670	18,900	8,370	10,800	e1,910	3,020	4,650	11,200	2,920
25	1,600	1,180	2,930	4,980	17,700	7,030	9,470	e1,880	3,300	4,960	11,200	3,810
26	1,550	1,160	3,240	4,390	17,900	5,690	7,920	e1,790	2,660	5,470	10,700	4,720
27	1,630	1,220	3,650	3,790	19,200	7,270	6,360	e1,700	2,310	6,510	9,560	6,410
28	1,500	1,350	4,310	3,450	21,800	10,900	4,770	e1,630	2,080	8,530	8,400	8,040
29	e1,360	1,400	5,600	3,240	---	11,000	4,320	1,520	1,890	9,150	6,970	6,020
30	e1,280	1,570	8,700	3,220	---	10,400	3,890	1,510	1,870	9,240	5,060	4,310
31	1,250	---	9,480	3,480	---	9,540	---	1,440	---	9,340	4,270	---
Mean	2,066	1,263	2,644	5,028	13,470	13,470	8,004	3,137	2,377	6,771	8,741	3,329
Max	3,480	1,570	9,480	9,430	22,600	25,400	14,300	5,780	3,330	10,200	11,200	8,040
Min	1,250	1,120	1,230	3,130	3,740	5,690	3,890	1,440	1,410	2,030	4,270	1,730
In.	0.57	0.34	0.74	1.40	3.38	3.74	2.15	0.87	0.64	1.88	2.43	0.90

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4,023	4,500	6,715	8,788	9,839	12,710	8,578	4,908	4,983	5,720	4,121	4,243
Max	32,570	11,890	31,200	24,210	22,620	37,410	27,130	14,530	19,160	22,110	13,090	13,570
(WY)	(1999)	(2005)	(2010)	(1998)	(2010)	(1990)	(2005)	(1991)	(1989)	(1994)	(2003)	(2004)
Min	803	1,055	2,212	3,126	2,650	3,773	2,785	1,444	1,059	1,168	1,046	1,335
(WY)	(2001)	(2012)	(1991)	(1989)	(1989)	(2012)	(2000)	(2000)	(2011)	(2000)	(2007)	(2000)

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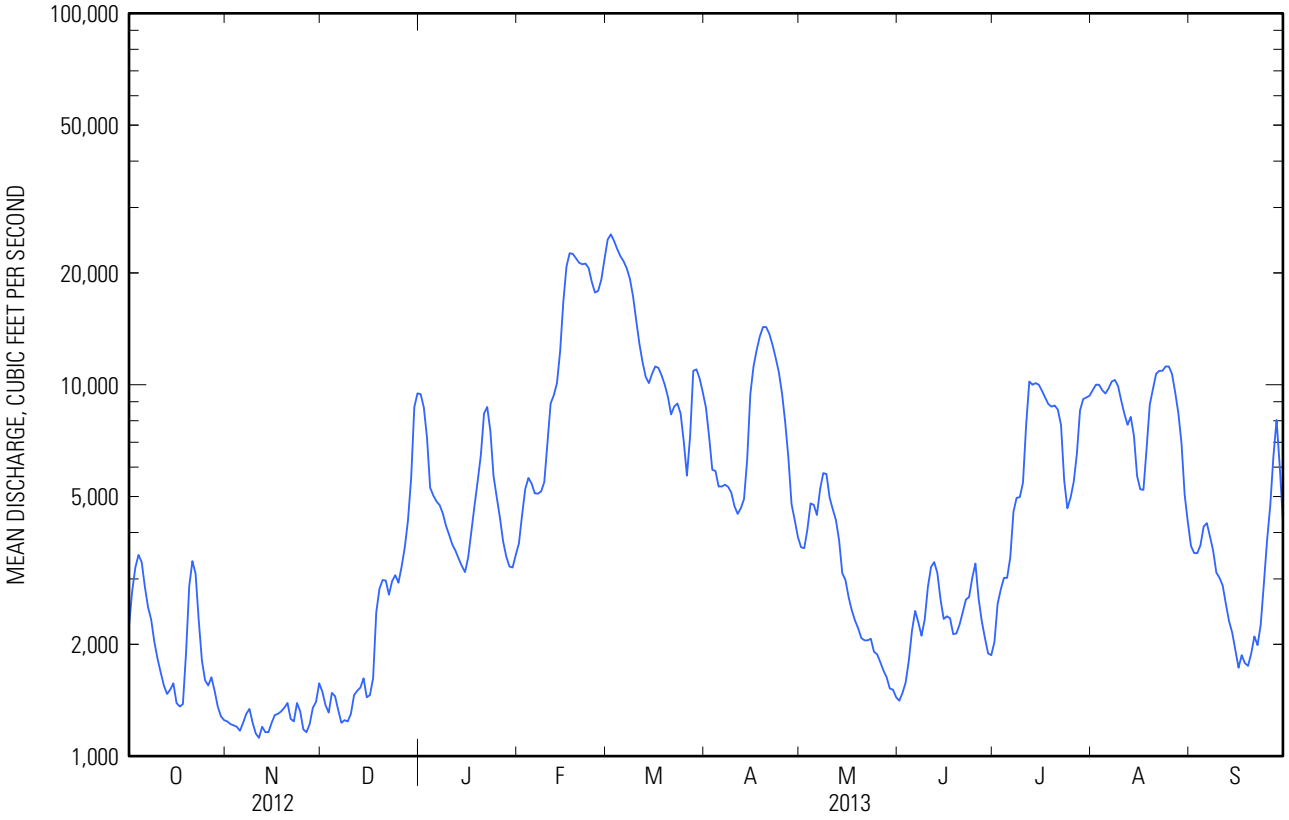
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1988 - 2013	
Annual mean	2,960		5,818		6,577	
Highest annual mean					11,440	2003
Lowest annual mean					2,433	2000
Highest daily mean	16,100	Feb 23,24	25,400	Mar 2	111,000	Mar 22, 1990
Lowest daily mean	703	Jul 1	1,120	Nov 11	581	Nov 6, 2000
Annual seven-day minimum	765	Jun 29	1,180	Nov 9	653	Oct 24, 2000
Maximum peak flow			25,700	Mar 2	113,000	Mar 23, 1990
Maximum peak stage			8.79	Mar 2	15.72	Mar 23, 1990
Annual runoff (inches)	9.72		19.05		21.55	
10 percent exceeds	5,170		11,200		15,500	
50 percent exceeds	2,340		4,030		3,760	
90 percent exceeds	1,210		1,370		1,510	



02376033 ESCAMBIA RIVER NEAR MOLINO, FL—Continued

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	2.22	0.89	1.16	4.34	1.42	8.61	3.93	2.57	1.40	1.58	4.27	2.24
2	1.94	1.18	1.02	4.15	2.07	8.74	3.64	2.67	1.07	1.74	4.41	2.13
3	2.02	1.14	1.05	3.73	2.60	8.58	3.47	2.78	1.05	1.90	4.44	2.11
4	2.18	0.98	1.28	3.18	2.98	8.37	3.50	2.76	1.21	2.54	4.32	2.11
5	2.09	0.89	1.12	2.78	3.19	8.19	3.24	2.94	1.53	2.57	4.25	2.31
6	1.82	0.98	1.12	2.59	3.14	8.03	3.06	2.84	1.70	2.58	4.39	2.38
7	1.43	0.63	1.15	2.42	3.17	7.80	3.10	3.05	1.60	3.03	4.58	2.27
8	1.37	0.61	1.15	2.43	3.22	7.44	3.15	3.36	1.37	3.26	4.62	2.10
9	1.20	0.65	1.12	2.32	3.13	6.86	3.04	3.44	1.63	3.16	4.49	1.83
10	1.16	1.01	1.16	2.25	3.53	6.12	2.88	3.34	1.94	3.21	4.17	1.76
11	0.96	1.43	0.76	2.18	3.96	5.46	2.90	3.09	1.94	3.81	3.90	1.76
12	1.02	1.28	0.56	1.98	4.15	4.97	2.87	2.69	1.84	4.64	3.81	1.70
13	1.04	---	---	2.04	4.43	4.58	2.75	2.12	1.66	4.60	3.93	1.69
14	1.24	0.89	---	1.88	5.26	4.43	3.29	1.74	1.33	4.63	3.71	1.51
15	1.18	0.81	0.77	1.72	6.66	4.65	4.21	1.46	1.29	4.64	3.40	1.39
16	1.05	0.75	1.11	1.96	7.84	4.85	4.93	1.46	1.44	4.52	3.25	1.45
17	1.30	0.76	1.34	1.79	8.25	4.81	5.39	1.44	1.37	4.40	3.29	1.54
18	1.60	0.77	1.38	1.91	8.24	4.64	5.77	1.34	1.25	4.29	3.58	1.56
19	1.60	0.80	1.54	2.66	8.12	4.41	6.04	1.22	1.11	4.25	4.05	1.73
20	1.99	0.86	1.93	3.34	8.00	4.11	6.06	1.19	1.07	4.30	4.43	1.68
21	2.18	0.87	1.01	3.75	7.94	3.84	5.90	1.22	1.21	4.24	4.80	2.03
22	2.04	0.83	0.80	3.79	7.95	3.86	5.64	1.28	1.51	3.97	4.89	1.74
23	1.74	1.03	1.32	3.60	7.79	4.01	5.37	1.17	1.77	3.48	4.92	1.87
24	1.52	0.80	1.86	3.21	7.32	4.03	5.05	---	1.83	3.00	5.02	2.23
25	1.47	1.09	2.03	2.72	6.98	3.67	4.62	---	1.91	2.90	5.05	2.54
26	1.32	1.34	2.22	2.26	7.05	3.37	4.08	---	1.67	3.18	4.88	2.84
27	0.61	1.42	1.81	1.81	7.41	3.54	3.59	---	1.42	3.49	4.49	3.44
28	0.45	0.84	2.47	1.72	8.07	4.04	3.19	---	1.37	3.81	4.07	3.76
29	---	0.85	3.34	1.93	---	4.32	2.88	1.46	1.36	4.01	3.69	3.49
30	---	0.98	3.87	2.46	---	4.27	2.67	1.64	1.38	4.07	3.24	2.85
31	0.51	---	4.25	1.38	---	4.10	---	1.50	---	4.12	2.68	---
Mean	---	---	---	2.59	5.50	5.44	4.01	---	1.47	3.55	4.16	2.13
Max	---	---	---	4.34	8.25	8.74	6.06	---	1.94	4.64	5.05	3.76
Min	---	---	---	1.38	1.42	3.37	2.67	---	1.05	1.58	2.68	1.39

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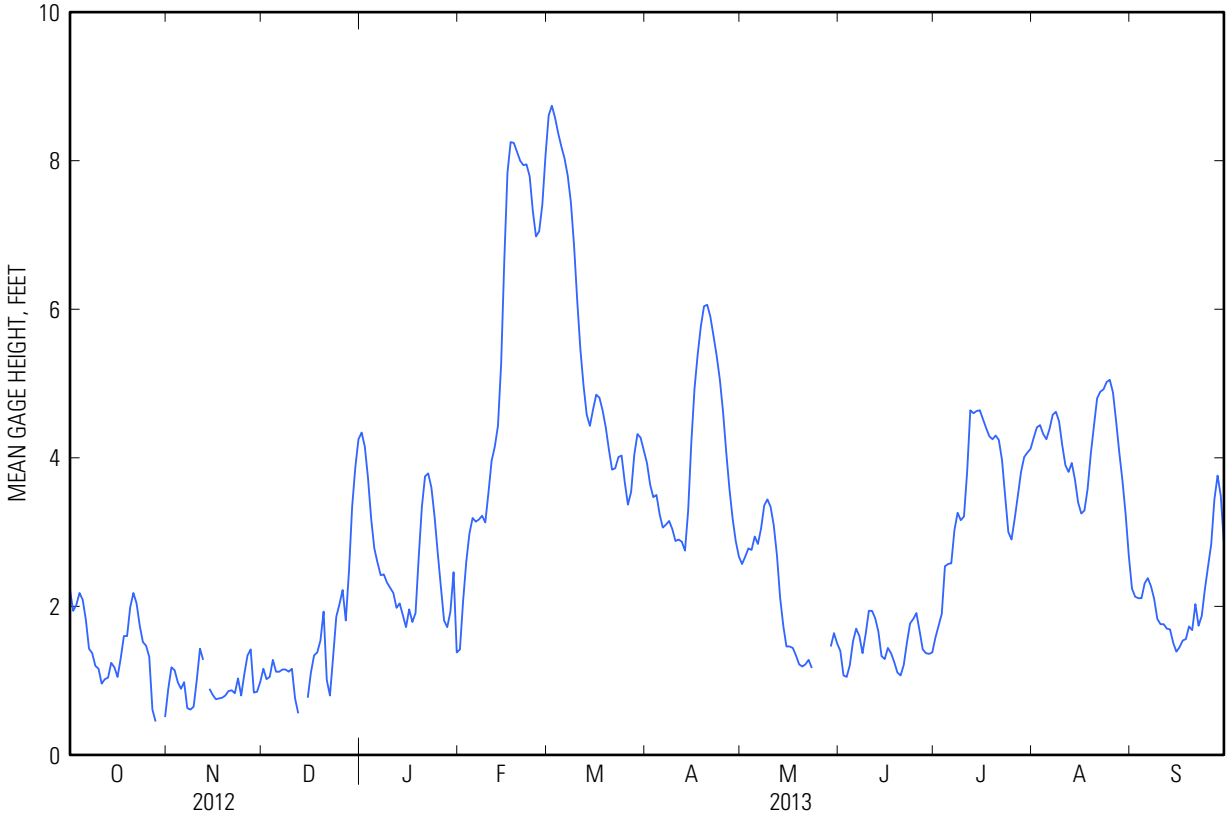

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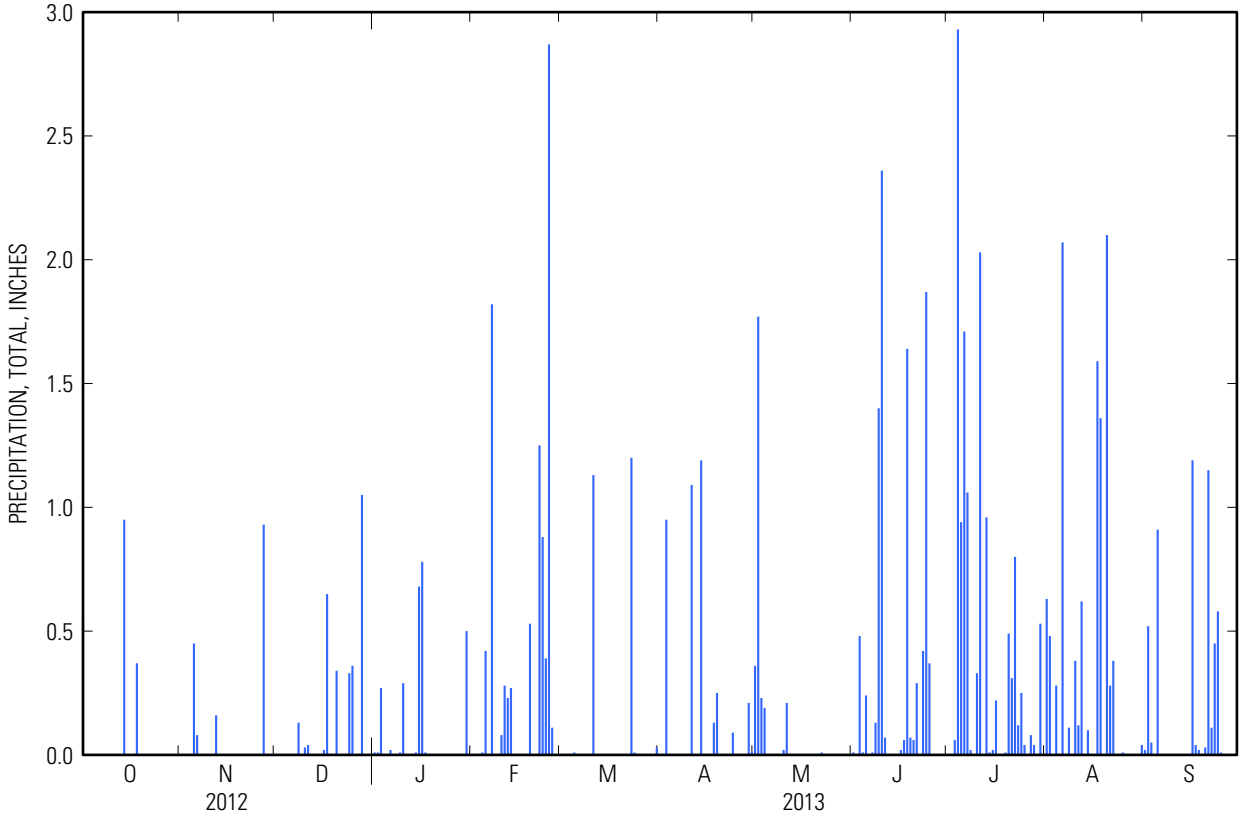
CLIMATOLOGICAL RECORDS

PERIOD OF RECORD.--October 2012 to September 2013.

INSTRUMENTATION.--Tipping-bucket rain gage and data-collection platform--15-minute interval.

REMARKS.--Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

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	0.55	0.00	0.00	0.01	0.00	0.00	0.00	0.36	0.01	0.00	0.63	0.02
2	0.00	0.00	0.00	0.01	0.00	0.00	0.00	1.77	0.00	0.00	0.48	0.52
3	0.00	0.00	0.00	0.27	0.00	0.00	0.95	0.23	0.48	0.06	0.00	0.05
4	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.19	0.01	2.93	0.28	0.00
5	0.00	0.45	0.00	0.00	0.42	0.01	0.00	0.00	0.24	0.94	0.00	0.91
6	0.00	0.08	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.71	2.07	0.00
7	0.00	0.00	0.00	0.00	1.82	0.00	0.00	0.00	0.01	1.06	0.00	0.00
8	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.13	0.02	0.11	0.00
9	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	1.40	0.00	0.00	0.00
10	0.00	0.00	0.03	0.29	0.08	0.00	0.00	0.02	2.36	0.33	0.38	0.00
11	0.00	0.00	0.04	0.00	0.28	1.13	1.09	0.21	0.07	2.03	0.12	0.00
12	0.00	0.16	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.62	0.00
13	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.96	0.00	0.00
14	0.95	0.00	0.00	0.01	0.00	0.00	1.19	0.00	0.00	0.01	0.10	0.00
15	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
16	0.00	0.00	0.02	0.78	0.00	0.00	0.00	0.00	0.02	0.22	0.00	1.19
17	0.00	0.00	0.65	0.01	0.00	0.00	0.00	0.00	0.06	0.00	1.59	0.04
18	0.37	0.00	0.00	0.00	0.00	0.00	0.13	0.00	1.64	0.00	1.36	0.02
19	0.00	0.00	0.00	0.00	0.53	0.00	0.25	0.00	0.07	0.01	0.00	0.00
20	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.06	0.49	2.10	0.03
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.31	0.28	1.15
22	0.00	0.00	0.00	0.00	1.25	0.00	0.00	0.01	0.00	0.80	0.38	0.11
23	0.00	0.00	0.00	0.00	0.88	1.20	0.00	0.00	0.42	0.12	0.00	0.45
24	0.00	0.00	0.33	0.00	0.39	0.01	0.09	0.00	1.87	0.25	0.00	0.58
25	0.00	0.00	0.36	0.00	2.87	0.00	0.00	0.00	0.37	0.04	0.01	0.01
26	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00
28	0.00	0.00	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.21	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.50	---	0.00	0.01	0.00	0.00	0.53	0.00	0.00
31	0.00	---	0.00	0.00	---	0.03	---	0.00	---	0.00	0.04	---
Total	1.87	1.62	2.95	2.59	9.14	2.38	3.92	2.79	9.51	12.96	10.55	5.08

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