



# ALTAMAHA RIVER BASIN

## 2002 Water Year

### 02218565 APALACHEE RIVER AT FENCE ROAD, NEAR DACULA, GA

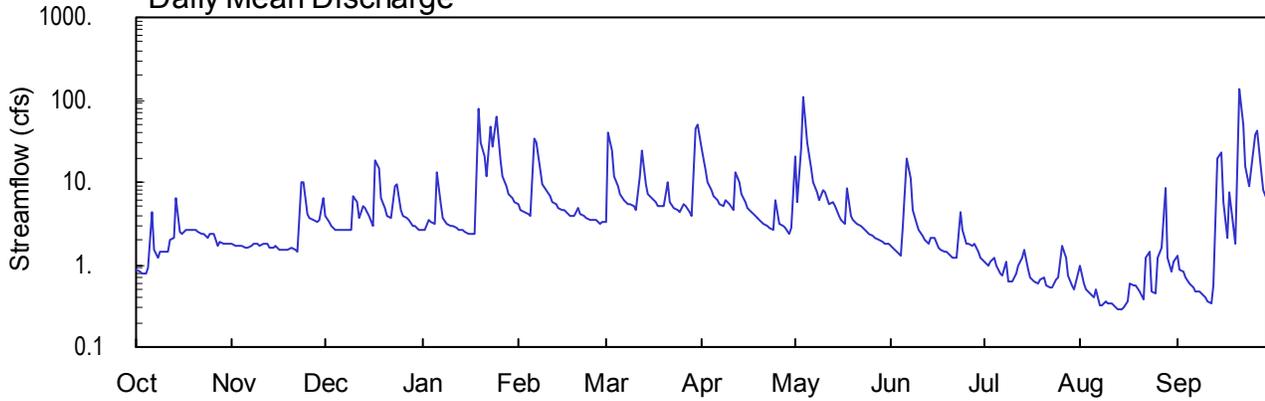
Latitude: 34° 00' 37" Longitude: 83° 53' 39" Hydrologic Unit Code: 03070101

Gwinnett County

Drainage Area: 5.4 mi<sup>2</sup>

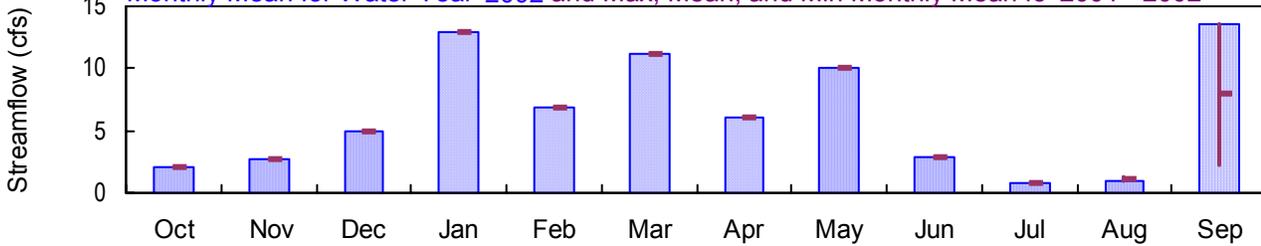
Datum: 935.00 feet

#### Daily Mean Discharge

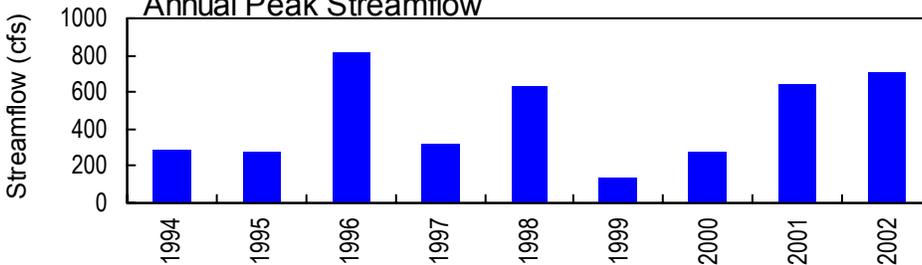


#### Monthly Statistics

Monthly Mean for Water Year 2002 and Max, Mean, and Min Monthly Mean for 2001 - 2002



#### Annual Peak Streamflow



**ALTAMAHA RIVER BASIN  
2001 and 2002 Water Years**

**02218565 APALACHEE RIVER AT FENCE ROAD, NEAR DACULA, GA**

**LOCATION.**—Lat 34°00'37", long 83°53'39" referenced to North American Datum (NAD) of 1927, Gwinnett County, Hydrologic Unit 03070101, 3.0 miles north of Dacula, and 2.5 miles west of Auburn.

**DRAINAGE AREA.**—5.40 mi<sup>2</sup>.

**COOPERATION.**—Gwinnett County Department of Public Works.

**WATER-DISCHARGE RECORDS**

**PERIOD OF RECORD.**—July 13, 2001 to current year.

**GAGE.**—Satellite telemetry with a water-stage recorder and a continuous water-quality monitor. Datum of gage is 935.00 feet above National Geodetic Vertical Datum (NGVD) of 1929 (from topographic map).

**REMARKS.**—Records good, except for period from July 13, 2001 to October 12, 2001, which is poor.

**WATER-STAGE RECORDS**

**PERIOD OF RECORD.**—Water years 1970-1977 (annual maximum), August 1977 to current year.

**GAGE.**—Satellite telemetry with a water-stage recorder and a continuous water-quality monitor. Datum of gage is 935.00 feet above National Geodetic Vertical Datum (NGVD) of 1929 (from topographic map).

**REMARKS.**—Records good, except for period from July 13, 2001 to October 12, 2001, which is poor.

**EXTREMES FOR CURRENT YEAR.**—Maximum gage-height recorded, 5.71 feet, September 21; minimum gage-height recorded, 0.25 feet, August 13.

**EXTREMES FOR 2001 WATER YEAR.**—Maximum gage-height recorded, 5.42 feet, July 25; minimum gage-height recorded, 0.53 feet, July 23, 24, September 23.

**PRECIPITATION RECORDS**

**PERIOD OF RECORD.**—August 21, 2001 to current year.

**GAGE.**—Tipping-bucket raingage.

**REMARKS.**—Records good.

APPROVED  
 DD #2, DCP  
 DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.85	1.8	3.9	2.6	5.3	3.3	25	21	1.7	1.1	0.95	1.3
2	0.83	1.7	3.3	2.7	4.7	41	14	5.7	1.5	1.0	0.58	0.86
3	0.77	1.7	2.9	3.4	4.4	24	10	25	1.4	1.1	0.49	0.81
4	0.79	1.7	2.7	3.3	4.1	12	8.0	108	1.3	1.2	0.44	0.69
5	0.91	1.6	2.6	3.1	3.8	8.8	6.8	31	2.8	0.97	0.39	0.58
6	4.4	1.6	2.6	13	33	7.1	6.0	15	19	0.79	0.51	0.53
7	1.5	1.7	2.7	5.3	30	6.1	5.4	10	11	0.74	0.32	0.47
8	1.2	1.8	2.7	3.6	14	5.5	5.1	7.5	4.5	1.1	0.32	0.48
9	1.4	1.8	2.6	3.2	9.6	5.5	6.2	6.2	3.2	0.61	0.35	0.44
10	1.4	1.7	6.9	2.9	7.8	5.0	5.4	8.0	2.6	0.64	0.33	0.40
11	1.4	1.8	5.9	2.9	6.6	4.6	4.7	7.5	2.2	0.78	0.33	0.35
12	2.0	1.8	3.6	2.8	5.9	12	13	5.3	2.0	0.96	0.31	0.33
13	2.1	1.6	5.0	2.7	5.3	24	10	5.6	1.8	1.2	0.28	0.57
14	6.4	1.6	4.9	2.7	4.9	9.4	7.0	5.0	2.1	1.5	0.28	20
15	2.5	1.7	3.8	2.5	4.6	7.3	5.8	3.9	2.1	0.89	0.30	23
16	2.4	1.5	3.0	2.4	4.6	6.3	4.9	3.5	1.6	0.68	0.35	5.7
17	2.7	1.5	18	2.4	4.2	5.7	4.4	3.2	1.5	0.62	0.58	2.1
18	2.7	1.5	15	2.4	4.0	5.1	4.0	8.6	1.4	0.58	0.57	7.7
19	2.6	1.5	6.3	79	3.8	5.2	3.6	4.0	1.4	0.65	0.55	2.9
20	2.6	1.6	4.8	31	4.8	5.0	3.3	3.4	1.3	0.71	0.47	1.8
21	2.5	1.5	3.8	21	4.1	10	3.2	3.1	1.2	0.56	0.38	138
22	2.4	1.4	3.6	12	3.8	5.6	2.9	2.9	1.2	0.53	1.2	50
23	2.3	9.8	8.8	46	3.7	4.8	2.8	2.8	4.4	0.54	1.4	16
24	2.1	10	9.4	27	3.5	4.6	2.6	2.5	2.6	0.66	0.47	9.2
25	2.4	4.2	4.7	61	3.5	4.4	6.1	2.4	1.8	0.71	0.45	15
26	2.4	3.6	3.9	18	3.4	5.3	3.1	2.2	1.8	1.7	1.2	37
27	1.7	3.4	3.6	12	3.2	5.2	3.0	2.1	1.7	1.2	1.6	43
28	1.9	3.3	3.5	8.9	3.3	4.3	2.8	2.0	1.8	0.73	8.6	14
29	1.8	3.5	2.9	7.3	---	4.0	2.4	1.9	1.4	0.56	1.2	8.1
30	1.8	6.4	2.9	6.3	---	45	2.8	1.8	1.2	0.50	0.83	6.0
31	1.8	---	2.6	5.6	---	51	---	1.8	---	0.77	1.1	---
TOTAL	64.55	80.3	152.9	399.0	193.9	347.1	184.3	312.9	85.5	26.28	27.13	407.31
MEAN	2.08	2.68	4.93	12.9	6.92	11.2	6.14	10.1	2.85	0.85	0.88	13.6
MAX	6.4	10	18	79	33	51	25	108	19	1.7	8.6	138
MIN	0.77	1.4	2.6	2.4	3.2	3.3	2.4	1.8	1.2	0.50	0.28	0.33
MED	2.0	1.7	3.6	3.6	4.5	5.6	5.0	4.0	1.8	0.74	0.47	2.5
AC-FT	128	159	303	791	385	688	366	621	170	52	54	808

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY)

	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002
MEAN	2.08	2.68	4.93	12.9	6.93	11.2	6.14	10.1	2.85	0.85	1.08	7.92
MAX	2.08	2.68	4.93	12.9	6.93	11.2	6.14	10.1	2.85	0.85	1.28	13.6
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2001	2002
MIN	2.08	2.68	4.93	12.9	6.93	11.2	6.14	10.1	2.85	0.85	0.88	2.27
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2001

SUMMARY STATISTICS

FOR 2002 WATER YEAR

WATER YEARS 2001 - 2002

ANNUAL TOTAL	2281.17	
ANNUAL MEAN	6.25	6.25
HIGHEST ANNUAL MEAN		6.25 2002
LOWEST ANNUAL MEAN		6.25 2002
HIGHEST DAILY MEAN	138 Sep 21	221 Jul 25 2001
LOWEST DAILY MEAN	0.28 Aug 13	0.28 Aug 13 2002
ANNUAL SEVEN-DAY MINIMUM	0.31 Aug 9	0.31 Aug 9 2002
MAXIMUM PEAK FLOW	710 Sep 21	710 Sep 21 2002
MAXIMUM PEAK STAGE	5.71 Sep 21	5.71 Sep 21 2002
INSTANTANEOUS LOW FLOW	0.23 Aug 13	
ANNUAL RUNOFF (AC-FT)	4520	4530
10 PERCENT EXCEEDS	12	12
50 PERCENT EXCEEDS	2.9	2.9
90 PERCENT EXCEEDS	0.58	0.58

STATION NUMBER 02218565 APALACHEE RIVER AT FENCE ROAD, NEAR DACULA, GA SOURCE AGENCY USGS STATE 13 COUNTY 135  
 LATITUDE 340037 LONGITUDE 0835339 NAD27 DRAINAGE AREA 5.40 CONTRIBUTING DRAINAGE AREA 5.40\* DATUM 935.00 NGVD29  
 Date Processed: 2003-03-12 08:42 By acday

APPROVED  
 DD #2, DCP

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	1.6	1.7
2	---	---	---	---	---	---	---	---	---	---	1.4	1.1
3	---	---	---	---	---	---	---	---	---	---	e1.2	1.1
4	---	---	---	---	---	---	---	---	---	---	e1.2	7.6
5	---	---	---	---	---	---	---	---	---	---	e1.1	1.5
6	---	---	---	---	---	---	---	---	---	---	e2.0	1.1
7	---	---	---	---	---	---	---	---	---	---	3.1	0.89
8	---	---	---	---	---	---	---	---	---	---	1.7	0.82
9	---	---	---	---	---	---	---	---	---	---	1.4	0.78
10	---	---	---	---	---	---	---	---	---	---	1.4	5.6
11	---	---	---	---	---	---	---	---	---	---	1.3	3.2
12	---	---	---	---	---	---	---	---	---	---	1.2	1.1
13	---	---	---	---	---	---	---	---	---	0.94	3.1	0.86
14	---	---	---	---	---	---	---	---	---	0.96	3.4	0.75
15	---	---	---	---	---	---	---	---	---	0.86	1.4	0.63
16	---	---	---	---	---	---	---	---	---	0.81	1.2	0.68
17	---	---	---	---	---	---	---	---	---	0.79	1.1	0.68
18	---	---	---	---	---	---	---	---	---	0.75	1.0	0.64
19	---	---	---	---	---	---	---	---	---	0.71	0.96	0.67
20	---	---	---	---	---	---	---	---	---	0.72	0.96	0.76
21	---	---	---	---	---	---	---	---	---	0.76	0.80	0.67
22	---	---	---	---	---	---	---	---	---	0.68	0.68	0.62
23	---	---	---	---	---	---	---	---	---	0.60	0.68	2.3
24	---	---	---	---	---	---	---	---	---	0.91	0.64	23
25	---	---	---	---	---	---	---	---	---	221	0.62	3.3
26	---	---	---	---	---	---	---	---	---	20	0.84	1.7
27	---	---	---	---	---	---	---	---	---	5.5	0.76	1.3
28	---	---	---	---	---	---	---	---	---	3.9	0.62	1.1
29	---	---	---	---	---	---	---	---	---	4.2	0.68	0.94
30	---	---	---	---	---	---	---	---	---	3.3	0.74	0.93
31	---	---	---	---	---	---	---	---	---	2.0	0.76	---
TOTAL	---	---	---	---	---	---	---	---	---	---	39.54	68.02
MEAN	---	---	---	---	---	---	---	---	---	---	1.28	2.27
MAX	---	---	---	---	---	---	---	---	---	---	3.4	23
MIN	---	---	---	---	---	---	---	---	---	---	0.62	0.62
MED	---	---	---	---	---	---	---	---	---	---	1.1	1.00
AC-FT	---	---	---	---	---	---	---	---	---	---	78	135

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2001, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	---	---	---	---	1.28	2.27
MAX	---	---	---	---	---	---	---	---	---	---	1.28	2.27
(WY)	---	---	---	---	---	---	---	---	---	---	2001	2001
MIN	---	---	---	---	---	---	---	---	---	---	1.28	2.27
(WY)	---	---	---	---	---	---	---	---	---	---	2001	2001

e Estimated

## U.S. DEPARTMENT OF THE INTERIOR - U.S. GEOLOGICAL SURVEY - WATER RESOURCES

STATION NUMBER 02218565 APALACHEE RIVER AT FENCE ROAD, NEAR DACULA, GA SOURCE AGENCY USGS STATE 13 COUNTY 135  
 LATITUDE 340037 LONGITUDE 0835339 NAD27 DRAINAGE AREA 5.40 CONTRIBUTING DRAINAGE AREA 5.40\* DATUM 935.00 NGVD29  
 Date Processed: 2003-03-12 08:42 By acday

APPROVED

DD #1, DCP

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.44	0.63	0.53	0.49	0.57	0.51	0.83	0.76	0.45	0.39	0.38	0.40
2	0.44	0.63	0.51	0.49	0.55	0.94	0.71	0.57	0.44	0.39	0.34	0.37
3	0.43	0.63	0.50	0.52	0.54	0.83	0.65	0.81	0.43	0.39	0.32	0.37
4	0.44	0.63	0.49	0.51	0.54	0.68	0.62	1.53	0.43	0.40	0.31	0.36
5	0.45	0.63	0.49	0.51	0.53	0.63	0.60	0.89	0.49	0.38	0.30	0.34
6	0.57	0.63	0.49	0.68	0.87	0.60	0.58	0.71	0.70	0.37	0.32	0.33
7	0.48	0.63	0.49	0.56	0.88	0.58	0.57	0.65	0.65	0.36	0.28	0.32
8	0.47	0.63	0.49	0.52	0.70	0.57	0.56	0.61	0.54	0.38	0.28	0.32
9	0.48	0.63	0.49	0.51	0.64	0.57	0.58	0.59	0.49	0.34	0.29	0.31
10	0.48	0.63	0.58	0.50	0.62	0.56	0.57	0.61	0.47	0.35	0.28	0.30
11	0.48	0.63	0.58	0.50	0.59	0.55	0.55	0.61	0.45	0.37	0.28	0.29
12	0.51	0.63	0.52	0.50	0.58	0.67	0.66	0.57	0.44	0.38	0.27	0.28
13	0.52	0.62	0.56	0.49	0.57	0.82	0.65	0.57	0.43	0.39	0.27	0.31
14	0.64	0.63	0.56	0.49	0.56	0.64	0.60	0.56	0.45	0.42	0.27	0.76
15	0.55	0.63	0.53	0.49	0.55	0.61	0.58	0.53	0.45	0.38	0.27	0.81
16	0.55	0.62	0.50	0.48	0.55	0.59	0.56	0.52	0.43	0.35	0.29	0.57
17	0.57	0.62	0.68	0.48	0.54	0.58	0.55	0.51	0.42	0.35	0.33	0.47
18	0.57	0.62	0.71	0.48	0.53	0.56	0.53	0.61	0.41	0.34	0.33	0.60
19	0.57	0.62	0.59	1.21	0.53	0.56	0.52	0.53	0.41	0.34	0.33	0.50
20	0.58	0.62	0.56	0.89	0.55	0.56	0.51	0.52	0.41	0.36	0.32	0.46
21	0.58	0.62	0.53	0.78	0.54	0.65	0.51	0.51	0.40	0.33	0.29	1.60
22	0.58	0.61	0.52	0.67	0.53	0.57	0.50	0.50	0.40	0.33	0.36	1.06
23	0.58	0.71	0.61	1.03	0.53	0.56	0.50	0.50	0.52	0.33	0.40	0.72
24	0.58	0.64	0.64	0.83	0.52	0.55	0.49	0.49	0.47	0.35	0.32	0.63
25	0.60	0.54	0.55	1.15	0.52	0.55	0.57	0.48	0.43	0.36	0.31	0.70
26	0.62	0.52	0.53	0.75	0.52	0.56	0.51	0.47	0.44	0.41	0.38	0.93
27	0.60	0.52	0.52	0.68	0.51	0.56	0.50	0.47	0.43	0.40	0.42	1.01
28	0.62	0.51	0.52	0.63	0.51	0.54	0.50	0.47	0.43	0.36	0.58	0.70
29	0.63	0.52	0.50	0.61	---	0.54	0.48	0.46	0.41	0.33	0.40	0.62
30	0.64	0.58	0.50	0.59	---	0.97	0.50	0.46	0.40	0.32	0.37	0.58
31	0.63	---	0.49	0.57	---	1.08	---	0.45	---	0.35	0.39	---
MEAN	0.54	0.61	0.54	0.63	0.58	0.64	0.57	0.60	0.46	0.36	0.33	0.57
MAX	0.64	0.71	0.71	1.21	0.88	1.08	0.83	1.53	0.70	0.42	0.58	1.60
MIN	0.43	0.51	0.49	0.48	0.51	0.51	0.48	0.45	0.40	0.32	0.27	0.28



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 Date Processed: 2003-03-12 08:42 By acday

APPROVED  
 DD #3, DCP

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
 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	0.04	0.00	0.01	0.88	0.00	0.00	0.05	0.00
2	0.00	0.00	0.00	0.00	0.00	1.76	0.00	0.00	0.00	0.00	0.01	0.00
3	0.00	0.00	0.00	0.00	0.02	0.28	0.00	---	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.16	0.00	0.00	0.00	---	0.30	0.00	0.00	0.00
5	0.01	0.00	0.00	0.07	0.00	0.00	0.00	---	0.20	0.00	0.00	0.00
6	0.43	0.00	0.00	0.50	1.68	0.00	0.00	---	1.47	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.15	0.00	0.00	---	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.09	0.32	0.13	0.00	0.00	0.00	0.00
10	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.50	0.00	0.03	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.01	0.00	0.00
12	0.01	0.00	0.01	0.09	0.06	1.19	0.80	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.21	0.00	0.00	0.15	0.09	0.12	0.00	0.22	0.00	0.98
14	0.62	0.00	0.09	0.00	0.00	0.00	0.08	0.00	0.37	0.01	0.00	1.13
15	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.07	1.15
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00
17	0.00	0.00	1.08	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.08	0.03
18	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.42	0.00	0.00	0.24	0.67
19	0.00	0.00	0.00	2.60	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00
20	0.00	0.00	0.00	0.00	0.19	0.20	0.00	0.00	0.00	0.00	0.00	0.10
21	0.00	0.00	0.00	0.38	0.00	0.30	0.00	0.00	0.00	0.00	0.12	3.64
22	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.01
23	0.00	1.14	0.56	0.17	0.00	0.00	0.00	0.00	0.84	0.09	0.00	0.00
24	0.00	0.01	0.00	1.28	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
25	0.01	0.01	0.00	0.08	0.00	0.00	0.53	0.00	0.06	0.00	0.17	0.99
26	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.03	0.32	0.97	1.02
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.38
28	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.07	0.00	0.96	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.01	0.00	0.00	0.00
30	0.00	0.29	0.00	0.00	---	2.13	0.15	0.00	0.00	0.05	0.00	0.00
31	0.00	---	0.00	0.00	---	0.49	---	0.00	---	0.23	0.01	---
TOTAL	1.08	1.45	2.62	6.09	2.14	6.78	2.01	---	3.51	1.14	2.74	10.10

