

## APALACHICOLA RIVER BASIN

2002 Water Year

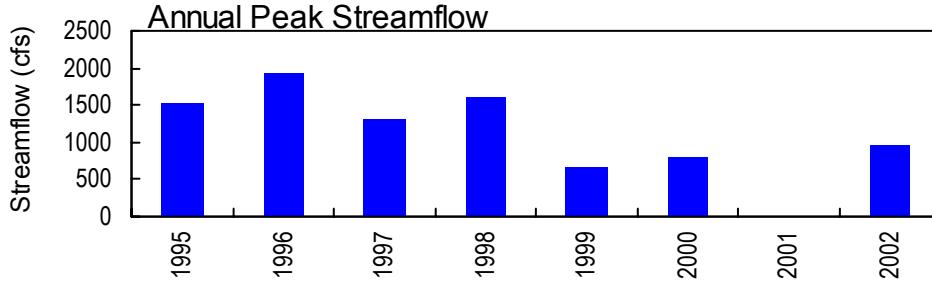
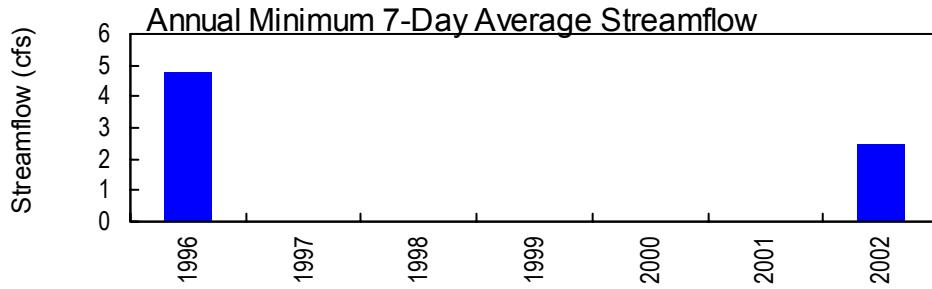
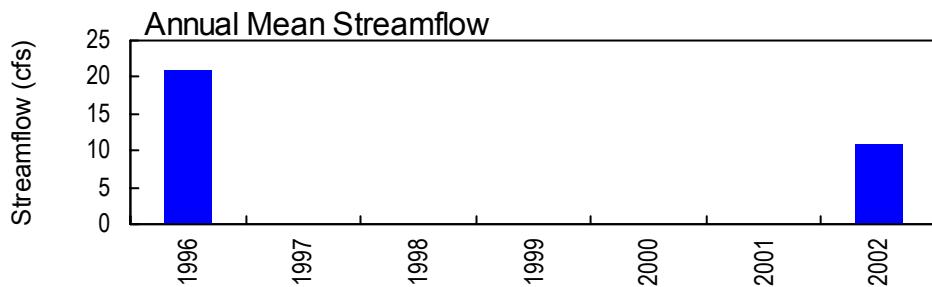
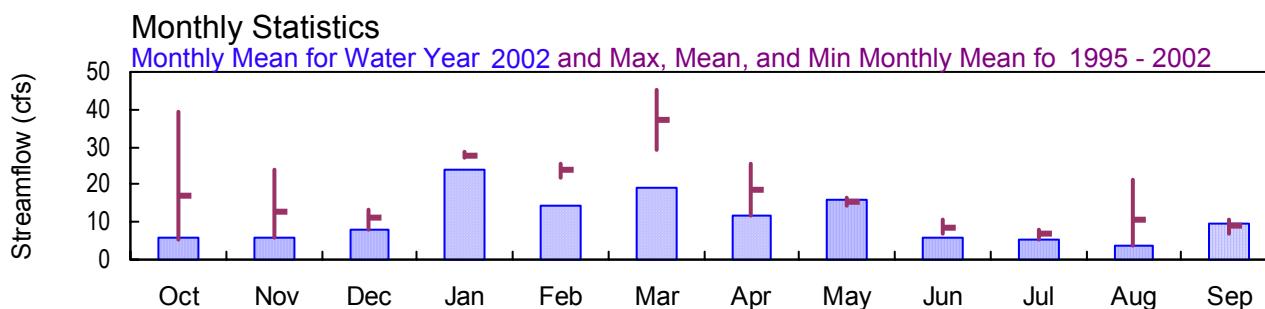
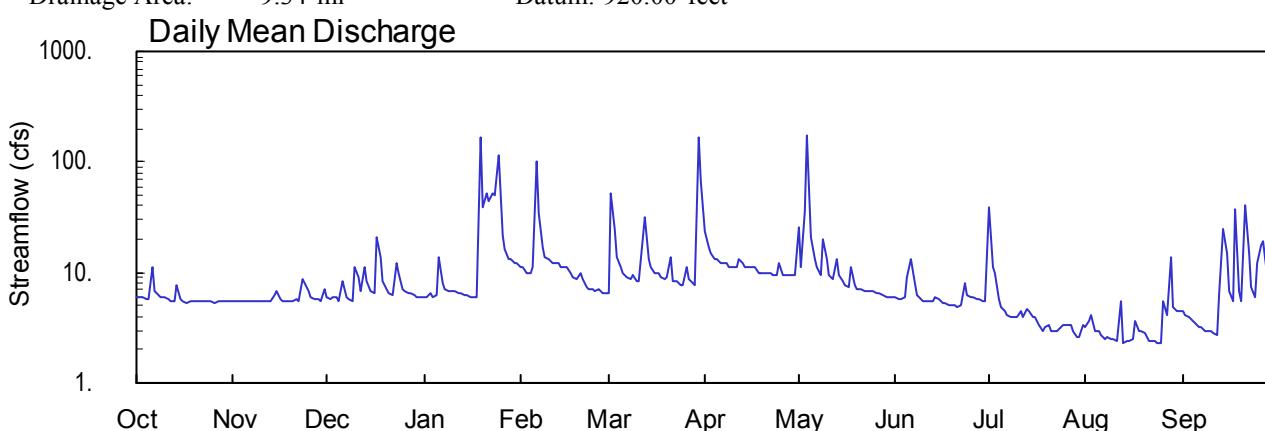
02334480 RICHLAND CREEK AT SUWANEE DAM ROAD, NEAR BUFORD, GA

Latitude:  $34^{\circ}07'57''$  Longitude:  $84^{\circ}04'12''$  Hydrologic Unit Code: 03130001

Gwinnett County

Drainage Area: 9.34 mi<sup>2</sup>

Datum: 920.00 feet



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

**02334480 RICHLAND CREEK ON SUWANEE DAM ROAD, NEAR BUFORD, GA**

**LOCATION.**—Lat 34°07'57", long 84°04'12" referenced to North American Datum (NAD) of 1927, Hydrologic Unit Code 03130001, Gwinnett County, at concrete box culvert on Suwanee Dam Road near Buford, 7.0 miles south of Buford Dam, and 1.25 river miles from the confluence of the Chattahoochee River.

**DRAINAGE AREA.**—9.34 mi<sup>2</sup>.

**WATER-DISCHARGE RECORDS**

**PERIOD OF RECORD.**—October 1, 1995 to January 6, 1997 (continuous record); 1998 to May 17, 2001 (non-continuous record); May 17, 2001 September 30, 2001.

**GAGE.**—Satellite telemetry with a water-stage recorder and a continuous water-quality monitor. Datum of gage is 920.00 feet above National Geodetic Vertical Datum (NGVD) of 1929. From October 1, 1995 to January 6, 1997, continuous recorder at same site. From 1998 to May 17, 2001, operated as a crest-stage gage at same location.

**REMARKS.**—Records poor.

**WATER-STAGE RECORDS**

**PERIOD OF RECORD.**—October 1, 1995 to January 6, 1997 (continuous record); 1998 to May 17, 2001 (non-continuous record); May 17, 2001 September 30, 2001.

**GAGE.**—Satellite telemetry with a water-stage recorder and a continuous water-quality monitor. Datum of gage is 920.00 feet above National Geodetic Vertical Datum (NGVD) of 1929. From October 1, 1995 to January 6, 1997, continuous recorder at same site. From 1998 to May 17, 2001, operated as a crest-stage gage at same location.

**REMARKS.**—Records poor.

**EXTREMES FOR 2001 WATER YEAR.**—Maximum gage-height recorded, 8.73 feet, July 31, 2001; minimum gage-height recorded, 0.33 feet, September 15-19, 21-23, 2001.

**EXTREMES FOR CURRENT YEAR.**—Maximum gage-height recorded, 5.87 feet, May 4; minimum gage-height recorded, 0.24 feet, September 10-13.

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

**02334480 RICHLAND CREEK ON SUWANEE DAM ROAD,  
NEAR BUFORD, GA—continued.**

**PRECIPITATION RECORDS**

**PERIOD OF RECORD.**—May 17, 2001 to current year.

**GAGE.**—Tipping-bucket rain gage.

**REMARKS.**—Records good.

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

STATION NUMBER 02334480 RICHLAND CREEK AT SUWANEE DAM ROAD, NEAR BUFORD, GA SOURCE AGENCY USGS STATE 13 COUNTY 135  
LATITUDE 340757 LONGITUDE 0840412 NAD27 DRAINAGE AREA 9.34\* CONTRIBUTING DRAINAGE AREA 9.34 DATUM 920.00 NGVD29  
Date Processed: 2003-03-12 14:24 PM eastern

Date Processed: 2003-03-12 14:34 By acday

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	6.0	5.6	6.0	6.0	11	6.6	24	26	5.9	39	3.2	4.4
2	5.9	5.6	5.8	6.0	11	53	17	11	5.7	11	3.6	4.1
3	5.9	5.6	6.0	6.6	10	25	15	36	5.7	9.9	4.2	3.9
4	5.8	5.6	5.9	6.1	10	14	13	175	5.9	5.8	3.0	3.8
5	5.8	5.6	5.6	6.2	11	11	13	21	8.9	4.9	2.9	3.5
6	11	5.6	e8.2	14	e100	10	12	13	13	4.4	2.7	3.2
7	6.8	5.5	6.0	8.1	34	9.1	12	11	7.9	4.2	2.5	3.2
8	6.3	5.5	5.7	7.0	17	8.6	12	9.6	6.3	4.0	2.6	3.0
9	6.1	5.5	5.6	6.8	14	9.4	11	20	5.8	3.9	2.5	3.0
10	5.9	5.5	11	6.7	13	8.4	11	13	5.6	3.9	2.5	2.9
11	5.8	5.5	9.1	6.7	12	8.2	11	9.4	5.6	4.4	2.4	2.8
12	5.5	5.6	6.9	6.5	12	20	13	8.8	5.5	4.0	5.5	2.7
13	5.4	5.5	11	6.4	12	32	12	13	5.4	4.7	2.3	6.2
14	7.6	6.3	8.4	6.3	11	13	11	9.4	6.1	4.4	2.4	25
15	5.7	6.9	6.9	6.2	11	11	11	8.3	5.7	3.9	2.4	15
16	5.4	5.7	6.5	6.1	11	10	11	7.8	5.3	3.9	2.5	6.7
17	5.3	5.5	21	6.1	10	10	11	7.5	5.3	e3.4	3.7	5.4
18	5.4	5.6	14	6.1	8.9	9.2	10	11	5.1	3.0	2.9	37
19	5.4	5.6	8.2	170	8.8	8.8	10	7.6	5.1	3.2	3.0	6.7
20	5.4	5.6	7.2	39	9.8	8.9	9.9	7.0	5.0	3.3	2.8	5.4
21	5.4	5.7	6.6	52	8.6	14	9.8	7.0	4.8	3.0	2.4	41
22	5.4	5.4	6.3	e45	7.5	8.5	9.7	6.8	5.0	3.0	2.4	15
23	5.4	8.6	12	e52	7.2	8.2	9.6	6.7	8.1	3.0	2.4	7.3
24	5.4	8.1	9.8	49	7.0	7.8	9.6	6.7	6.3	3.2	2.3	6.1
25	5.4	6.9	7.2	116	6.9	7.6	12	6.7	5.9	3.3	2.3	12
26	5.3	5.9	6.7	22	7.2	11	9.5	6.5	5.9	3.3	5.6	18
27	5.4	5.8	6.4	16	6.6	8.6	9.5	6.5	5.8	3.3	4.2	19
28	5.4	5.7	6.4	13	6.6	8.1	9.6	6.2	5.8	2.9	14	9.5
29	5.5	5.6	6.3	13	---	7.8	9.3	6.1	5.6	2.6	4.8	6.9
30	5.6	7.2	6.0	12	---	167	9.4	6.0	5.4	2.6	4.4	6.2
31	5.6	---	5.9	12	---	68	---	6.0	---	3.4	4.4	---
TOTAL	182.2	178.3	244.6	734.9	395.1	602.8	347.9	496.6	183.4	162.8	108.8	288.9
MEAN	5.88	5.94	7.89	23.7	14.1	19.4	11.6	16.0	6.11	5.25	3.51	9.63
MAX	11	8.6	21	170	100	167	24	175	13	39	14	41
MIN	5.3	5.4	5.6	6.0	6.6	6.6	9.3	6.0	4.8	2.6	2.3	2.7
CFSM	0.63	0.64	0.84	2.54	1.51	2.08	1.24	1.72	0.65	0.56	0.38	1.03
IN.	0.73	0.71	0.97	2.93	1.57	2.40	1.39	1.98	0.73	0.65	0.43	1.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2002, BY WATER YEAR (WY)

MEAN	17.2	13.0	11.2	26.1	19.9	32.3	18.5	15.1	11.0	14.0	10.9	9.00
MAX	39.3	23.8	13.3	28.5	25.5	45.1	25.5	16.0	16.6	28.4	21.2	10.7
(WY)	1996	1996	1996	1996	1996	1996	1996	2002	2001	2001	2001	1996
MIN	5.88	5.94	7.89	23.7	14.1	19.4	11.6	14.1	6.11	5.25	3.51	6.64
(WY)	2002	2002	2002	2002	2002	2002	2002	1996	2002	2002	2002	2001

## SUMMARY STATISTICS

**FOR 2002 WATER YEAR**

WATER YEARS 1995 - 2002

ANNUAL TOTAL	3926.3		
ANNUAL MEAN	10.8		15.9
HIGHEST ANNUAL MEAN			21.0
LOWEST ANNUAL MEAN			10.8
HIGHEST DAILY MEAN	175	May 4	514 Oct 5 1995
LOWEST DAILY MEAN	2.3	Aug 13	2.3 Aug 13 2002
ANNUAL SEVEN-DAY MINIMUM	2.5	Aug 19	2.5 Aug 19 2002
MAXIMUM PEAK FLOW	962	May 4	
MAXIMUM PEAK STAGE	5.87	May 4	
INSTANTANEOUS LOW FLOW	2.0	Aug 8	
ANNUAL RUNOFF ( CFSM )	1.15		1.70
ANNUAL RUNOFF ( INCHES )	15.64		23.13
10 PERCENT EXCEEDS	14		22
50 PERCENT EXCEEDS	6.5		8.8
90 PERCENT EXCEEDS	3.2		4.8

e Estimated

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

STATION NUMBER 02334480 RICHLAND CREEK AT SUWANEE DAM ROAD, NEAR BUFORD, GA SOURCE AGENCY USGS STATE 13 COUNTY 135  
 LATITUDE 340757 LONGITUDE 0840412 NAD27 DRAINAGE AREA 9.34 CONTRIBUTING DRAINAGE AREA 9.34\* DATUM 920.00 NGVD29

Date Processed: 2003-03-12 08:47 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	0.37	0.38	0.39	0.39	0.52	0.41	0.73	0.72	0.39	0.72	0.31	0.32
2	0.37	0.38	0.39	0.39	0.51	0.99	0.61	0.47	0.38	0.54	0.33	0.30
3	0.37	0.38	0.39	0.41	0.50	0.75	0.55	0.83	0.38	0.51	0.35	0.30
4	0.37	0.38	0.39	0.40	0.50	0.57	0.53	1.83	0.39	0.41	0.31	0.29
5	0.37	0.38	0.38	0.40	0.50	0.51	0.51	0.72	0.47	0.37	0.30	0.28
6	0.51	0.38	---	0.59	---	0.49	0.50	0.57	0.56	0.36	0.29	0.27
7	0.40	0.38	0.39	0.45	0.86	0.47	0.49	0.53	0.45	0.35	0.29	0.27
8	0.38	0.37	0.38	0.42	0.63	0.46	0.49	0.50	0.40	0.34	0.29	0.27
9	0.38	0.38	0.38	0.42	0.57	0.48	0.48	0.65	0.39	0.34	0.28	0.26
10	0.37	0.37	0.52	0.41	0.55	0.45	0.48	0.57	0.38	0.34	0.28	0.26
11	0.37	0.38	0.48	0.41	0.53	0.45	0.47	0.49	0.38	0.35	0.28	0.25
12	0.37	0.38	0.42	0.41	0.53	0.65	0.52	0.48	0.38	0.34	0.38	0.25
13	0.37	0.38	0.51	0.40	0.53	0.82	0.49	0.56	0.37	0.37	0.28	0.34
14	0.44	0.40	0.46	0.40	0.52	0.56	0.48	0.49	0.39	0.36	0.28	0.77
15	0.38	0.42	0.42	0.40	0.52	0.51	0.48	0.46	0.38	0.34	0.28	0.60
16	0.37	0.38	0.41	0.39	0.51	0.50	0.47	0.45	0.37	0.34	0.28	0.39
17	0.37	0.38	0.63	0.40	0.50	0.49	0.46	0.44	0.37	---	0.33	0.35
18	0.37	0.38	0.58	0.39	0.47	0.47	0.45	0.52	0.36	0.30	0.30	0.89
19	0.37	0.38	0.46	1.71	0.47	0.46	0.45	0.44	0.36	0.31	0.30	0.39
20	0.37	0.38	0.43	0.91	0.49	0.46	0.45	0.42	0.36	0.32	0.30	0.35
21	0.37	0.38	0.41	1.02	0.46	0.57	0.44	0.42	0.35	0.31	0.28	0.84
22	0.37	0.37	0.40	---	0.43	0.46	0.44	0.42	0.36	0.30	0.28	0.60
23	0.37	0.46	0.53	---	0.42	0.45	0.44	0.41	0.44	0.30	0.28	0.41
24	0.37	0.45	0.50	0.93	0.42	0.44	0.44	0.41	0.38	0.31	0.27	0.38
25	0.37	0.42	0.43	1.51	0.42	0.43	0.48	0.41	0.37	0.32	0.27	0.52
26	0.37	0.39	0.41	0.70	0.43	0.50	0.43	0.41	0.37	0.31	0.38	0.65
27	0.37	0.39	0.40	0.61	0.41	0.46	0.43	0.41	0.36	0.31	0.34	0.67
28	0.37	0.38	0.40	0.56	0.41	0.44	0.44	0.40	0.37	0.30	0.52	0.47
29	0.37	0.38	0.40	0.55	---	0.44	0.43	0.40	0.36	0.29	0.33	0.40
30	0.38	0.43	0.39	0.54	---	1.84	0.43	0.39	0.35	0.29	0.31	0.38
31	0.38	---	0.39	0.53	---	1.23	---	0.39	---	0.32	0.32	---
MEAN	0.38	0.39	---	---	---	0.59	0.48	0.54	0.39	---	0.31	0.42
MAX	0.51	0.46	---	---	---	1.84	0.73	1.83	0.56	---	0.52	0.89
MIN	0.37	0.37	---	---	---	0.41	0.43	0.39	0.35	---	0.27	0.25

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

STATION NUMBER 02334480 RICHLAND CREEK AT SUWANEE DAM ROAD, NEAR BUFORD, GA SOURCE AGENCY USGS STATE 13 COUNTY 135  
 LATITUDE 340757 LONGITUDE 0840412 NAD27 DRAINAGE AREA 9.34 CONTRIBUTING DRAINAGE AREA 9.34\* DATUM 920.00 NGVD29

Date Processed: 2003-03-12 08:47 By acday

APPROVED  
DD #4, 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	0.07	0.00	0.00	---	0.00	0.79	0.00	0.00
2	0.00	0.00	0.00	0.00	1.75	0.00	---	0.00	0.04	0.57	0.00	
3	0.00	0.00	0.00	0.00	0.02	0.25	0.00	---	0.00	0.08	0.00	0.00
4	0.00	0.00	0.02	0.17	0.00	0.00	0.00	---	0.86	0.01	0.00	0.00
5	0.12	0.00	0.00	0.01	0.00	0.00	0.00	---	0.03	0.00	0.00	0.00
6	0.76	0.00	0.0	0.54	1.49	0.00	0.00	---	0.81	0.04	0.00	0.00
7	0.00	0.00	0.00	0.00	0.07	0.00	0.00	---	0.00	0.00	0.00	0.00
8	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.20	0.04	0.85	0.00	0.00	0.00	0.00
10	0.00	0.00	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
12	0.01	0.00	0.01	0.02	0.00	0.75	0.45	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.39	0.00	0.00	0.23	0.03	0.42	0.00	0.17	0.00	1.20
14	0.46	0.00	0.07	0.01	0.00	0.00	0.01	0.00	0.21	0.01	0.00	1.12
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.64
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00
17	0.00	0.00	0.98	0.00	0.00	0.01	0.00	0.40	0.00	0.00	0.11	0.05
18	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.30	0.00	---	0.02	1.75
19	0.00	0.00	0.00	2.97	0.00	0.00	0.00	0.00	0.00	---	0.05	0.00
20	0.00	0.00	0.00	0.00	0.19	0.32	0.00	0.00	0.00	0.00	0.00	0.14
21	0.00	0.00	0.00	0.70	0.01	0.24	0.00	0.00	0.00	0.00	0.00	1.01
22	0.01	0.00	0.00	0.53	0.00	0.00	0.02	0.00	0.03	0.00	0.00	0.11
23	0.00	0.83	0.67	0.14	0.00	0.00	0.00	0.00	0.61	0.01	0.00	0.00
24	0.02	0.19	0.00	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.01	0.10	0.00	0.08	0.00	0.00	0.36	0.00	0.00	0.00	0.00	2.72
26	0.00	0.00	0.00	0.00	0.08	0.48	0.01	0.02	0.01	0.01	0.91	0.48
27	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.23
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.69	0.01
29	0.00	0.00	0.00	0.00	---	0.0	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.30	0.00	0.00	---	2.88	---	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.01	---	0.18	---	0.00	---	0.31	0.00	---
TOTAL	1.40	1.43	3.06	6.64	1.93	7.29	---	---	2.69	---	2.40	9.46