

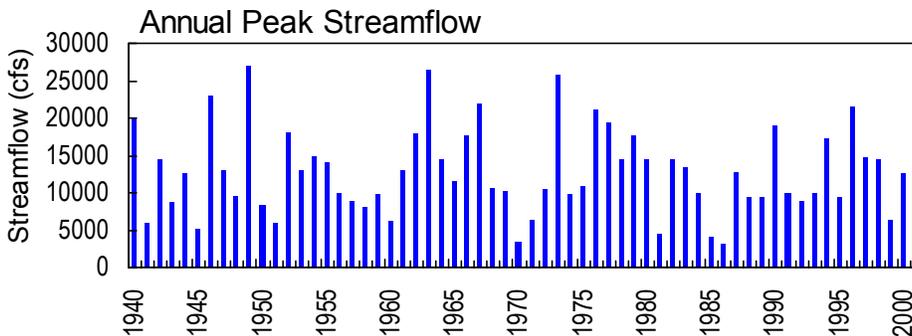
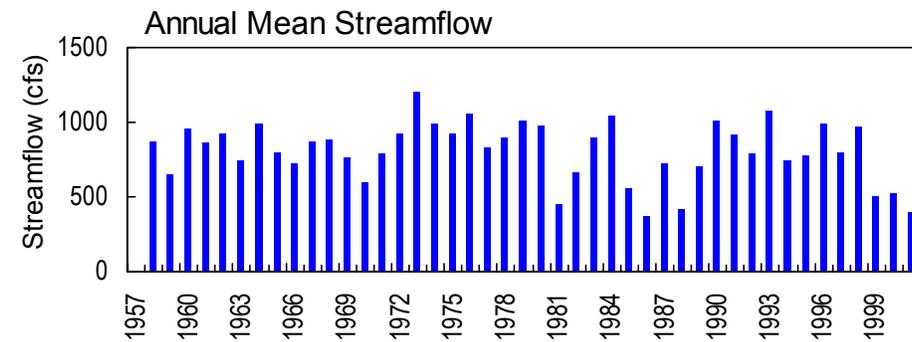
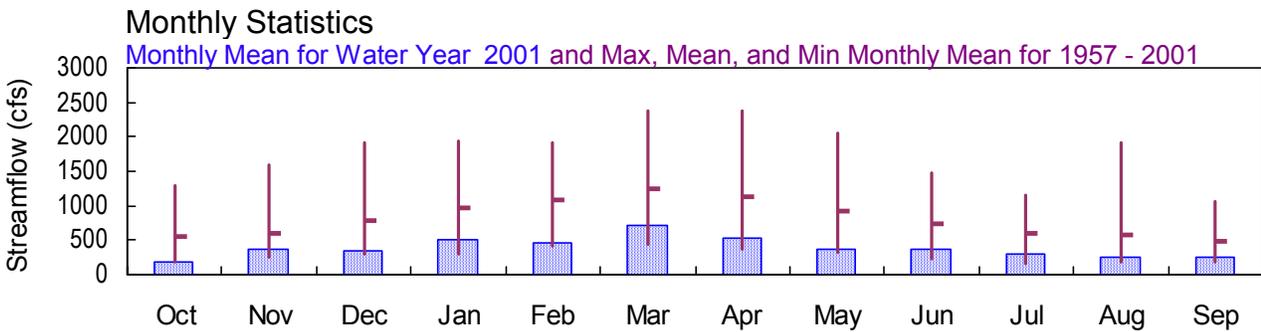
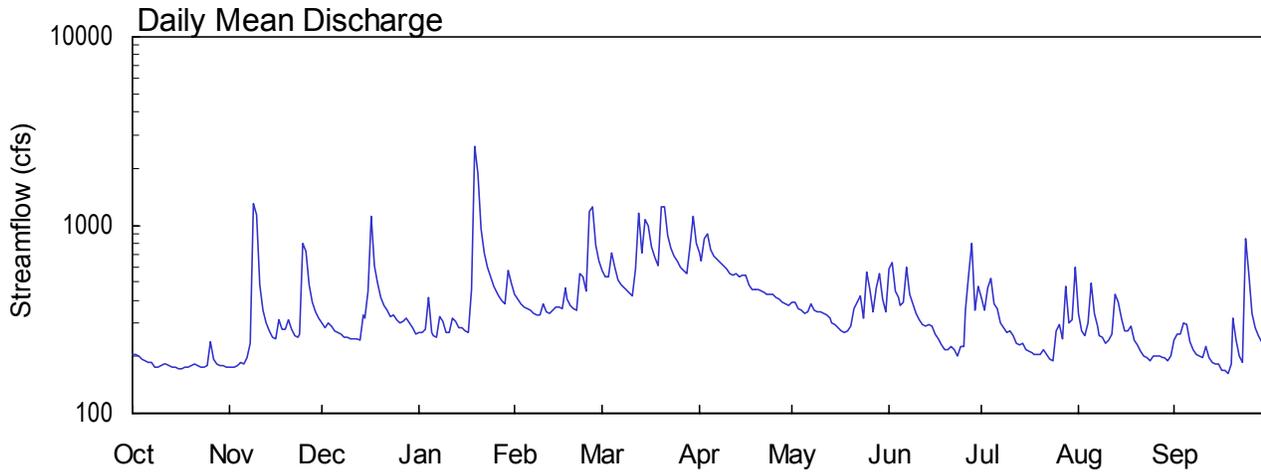


APALACHICOLA RIVER BASIN

2001 Water Year

02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA

Latitude: 34° 32' 27" Longitude: 83° 37' 14" Hydrologic Unit Code: 03130001 Habersham County
Drainage Area: 315 mi² Datum: 1129 feet Period of Record: 1957 - 2001



**APALACHICOLA RIVER BASIN
2001 Water Year**

02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA

LOCATION.--Lat 34°32'27", long 83°37'14", Habersham-White County line, Hydrologic Unit 03130001, on downstream side of bridge on Duncan Bridge Road (GA Highway 384), 1.0 mile downstream from Soque River, 6.0 miles northwest of Cornelia, and at mile 401.4.

DRAINAGE AREA.--315 mi².

COOPERATION.—U.S. Army Corps of Engineers, Mobile District.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1957 to current year.

REVISED RECORDS.--WSP 2106: 1963(M).

GAGE.--Satellite telemetry with a water-stage recorder. Datum of gage is 1,128.53 feet above sea level (levels by U.S. Army Corps of Engineers). Prior to June 28, 1977 and after June 16, 1992 to October 25, 1994, located at a site 1,000 feet upstream at same datum.

REMARKS.--Records good. Some regulation at low flow occurs from Habersham Mill power plant.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,200 ft³/s and maximum (*):

| DATE | TIME | DISCHARGE (ft ³ /s) | GAGE-HEIGHT (ft) |
|---------|------|--------------------------------|------------------|
| Jan. 19 | 1845 | 4,990* | 5.43* |

**APALACHICOLA RIVER BASIN
2001 Water Year**

02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA—continued.

WATER-STAGE RECORDS

PERIOD OF RECORD.--August 1957 to current year.

GAGE.--Satellite telemetry with water-stage recorder. Datum of gage is 1,128.53 feet above sea level (levels by US Army Corps of Engineers). Prior to June 28, 1977 and after June 16, 1992 to Oct 25 1994 located at site 1000 feet upstream at same datum.

REMARKS.--Records good.

EXTREMES FOR CURRENT YEAR.--Maximum gage-height recorded, 5.43 feet, January 19; minimum gage-height recorded, 0.15 feet, September 18-19.

PRECIPITATION RECORDS

PERIOD OF RECORD.--April 16, 2001 to September 30, 2001.

GAGE.--Tipping-bucket raingage.

REMARKS.--Records fair.

STATION NUMBER 02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA STREAM SOURCE AGENCY USGS
 LATITUDE 343227 LONGITUDE 0833714 DRAINAGE AREA 315.00 DATUM 1128.53 STATE 13 COUNTY 137

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 | 207 | 176 | 300 | 270 | 429 | 578 | 705 | 386 | 584 | 411 | 337 | 245 |
| 2 | 206 | 176 | 288 | 269 | 403 | 533 | 642 | 387 | 628 | 353 | 277 | 265 |
| 3 | 200 | 177 | 300 | 282 | 383 | 527 | 852 | 361 | 443 | 464 | 260 | 265 |
| 4 | 195 | 179 | 291 | 415 | 371 | 706 | 890 | 351 | 412 | 518 | 300 | 301 |
| 5 | 191 | 188 | 275 | 269 | 363 | 594 | 737 | 343 | 372 | 381 | 495 | 295 |
| 6 | 186 | 183 | 267 | 257 | 351 | 513 | 689 | 344 | 391 | 362 | 339 | 239 |
| 7 | 187 | 198 | 263 | 255 | 342 | 478 | 658 | 382 | 594 | 301 | 291 | 216 |
| 8 | 176 | 234 | 256 | 328 | 334 | 462 | 628 | 352 | 432 | 287 | 260 | 204 |
| 9 | 175 | 1300 | 252 | 311 | 332 | 450 | 605 | 348 | 382 | 272 | 255 | 200 |
| 10 | 179 | 1130 | 250 | 272 | 383 | 432 | 581 | 347 | 342 | 275 | 234 | 198 |
| 11 | 181 | 486 | 249 | 267 | 348 | 423 | 557 | 340 | 315 | 261 | 244 | 224 |
| 12 | 182 | 351 | 251 | 321 | 341 | 586 | 539 | 333 | 296 | 237 | 263 | 199 |
| 13 | 178 | 302 | 245 | 308 | 354 | 1160 | 554 | 318 | 291 | 230 | 426 | 187 |
| 14 | 177 | 276 | 333 | 287 | 369 | 705 | 528 | 300 | 296 | 233 | 390 | 181 |
| 15 | 175 | 256 | 320 | 284 | 369 | 1080 | 541 | 295 | 291 | 219 | 321 | 184 |
| 16 | 173 | 251 | 445 | 273 | 364 | 983 | 540 | 286 | 262 | 212 | 274 | 170 |
| 17 | 173 | 317 | 1120 | 269 | 465 | 766 | 483 | 276 | 247 | 209 | 275 | 168 |
| 18 | 174 | 279 | 610 | 453 | 403 | 672 | 459 | 272 | 229 | 204 | 294 | 164 |
| 19 | 175 | 279 | 491 | 2620 | 375 | 611 | 457 | 274 | 219 | 204 | 245 | 184 |
| 20 | 178 | 316 | 413 | 1870 | 360 | 1250 | 454 | 294 | 219 | 206 | 232 | 323 |
| 21 | 181 | 278 | 376 | 949 | 354 | 1240 | 449 | 359 | 224 | 217 | 213 | 245 |
| 22 | 179 | 260 | 356 | 714 | 551 | 886 | 441 | 393 | 219 | 204 | 200 | 203 |
| 23 | 174 | 253 | 328 | 596 | 530 | 753 | 432 | 421 | 203 | 192 | 196 | 186 |
| 24 | 176 | 263 | 334 | 528 | 446 | 685 | 427 | 321 | 225 | 191 | 191 | 848 |
| 25 | 179 | 806 | 315 | 475 | 1180 | 645 | 428 | 561 | 226 | 274 | 202 | 550 |
| 26 | 241 | 725 | 304 | 437 | 1250 | 601 | 416 | 458 | 351 | 298 | 200 | 342 |
| 27 | 193 | 480 | 306 | 421 | 788 | 571 | 402 | 347 | 547 | 247 | 200 | 285 |
| 28 | 183 | 392 | 318 | 396 | 652 | 548 | 390 | 466 | 802 | 469 | 199 | 260 |
| 29 | 178 | 347 | 300 | 385 | --- | 771 | 380 | 552 | 357 | 300 | 199 | 241 |
| 30 | 178 | 321 | 283 | 575 | --- | 1120 | 375 | 409 | 477 | 316 | 189 | 231 |
| 31 | 176 | --- | 265 | 488 | --- | 800 | --- | 348 | --- | 596 | 201 | --- |
| TOTAL | 5706 | 11179 | 10704 | 15844 | 13190 | 22129 | 16239 | 11224 | 10876 | 9143 | 8202 | 7803 |
| MEAN | 184 | 373 | 345 | 511 | 471 | 714 | 541 | 362 | 363 | 295 | 265 | 260 |
| MAX | 241 | 1300 | 1120 | 2620 | 1250 | 1250 | 890 | 561 | 802 | 596 | 495 | 848 |
| MIN | 173 | 176 | 245 | 255 | 332 | 423 | 375 | 272 | 203 | 191 | 189 | 164 |
| CFSM | .58 | 1.18 | 1.10 | 1.62 | 1.50 | 2.27 | 1.72 | 1.15 | 1.15 | .94 | .84 | .83 |
| IN. | .67 | 1.32 | 1.26 | 1.87 | 1.56 | 2.61 | 1.92 | 1.33 | 1.28 | 1.08 | .97 | .92 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2001, BY WATER YEAR (WY)

| | 544 | 607 | 780 | 970 | 1089 | 1236 | 1142 | 924 | 731 | 600 | 587 | 481 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 544 | 607 | 780 | 970 | 1089 | 1236 | 1142 | 924 | 731 | 600 | 587 | 481 |
| MAX | 1287 | 1602 | 1909 | 1938 | 1917 | 2376 | 2385 | 2043 | 1487 | 1165 | 1926 | 1058 |
| (WY) | 1990 | 1993 | 1962 | 1993 | 1998 | 1980 | 1964 | 1973 | 1973 | 1989 | 1967 | 1967 |
| MIN | 184 | 257 | 310 | 293 | 426 | 449 | 368 | 324 | 227 | 166 | 179 | 184 |
| (WY) | 2001 | 1982 | 1966 | 1981 | 1986 | 1988 | 1986 | 1986 | 1986 | 1986 | 1986 | 1999 |

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1957 - 2001

| | | | |
|--------------------------|--------|--------|-------|
| ANNUAL TOTAL | 167540 | 142239 | |
| ANNUAL MEAN | 458 | 390 | 807 |
| HIGHEST ANNUAL MEAN | | | 1198 |
| LOWEST ANNUAL MEAN | | | 370 |
| HIGHEST DAILY MEAN | 3930 | Apr 3 | 15800 |
| LOWEST DAILY MEAN | 156 | Sep 17 | 91 |
| ANNUAL SEVEN-DAY MINIMUM | 174 | Sep 14 | 124 |
| MAXIMUM PEAK FLOW | | | 26400 |
| MAXIMUM PEAK STAGE | | | 20.55 |
| ANNUAL RUNOFF (CFSM) | 1.45 | | 2.56 |
| ANNUAL RUNOFF (INCHES) | 19.79 | | 34.79 |
| 10 PERCENT EXCEEDS | 756 | | 1350 |
| 50 PERCENT EXCEEDS | 382 | | 648 |
| 90 PERCENT EXCEEDS | 183 | | 309 |

STATISTICS COMPUTED BY: gabailey

DATE: 04/09/2002 AT: 08:07:55

STATION NUMBER 02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA STREAM SOURCE AGENCY USGS
 LATITUDE 343227 LONGITUDE 0833714 DRAINAGE AREA 315.00 DATUM 1128.53 STATE 13 COUNTY 137

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
 DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|-----|------|------|------|------|------|------|------|------|------|------|------|
| 1 | .37 | .23 | .66 | .58 | .93 | 1.18 | 1.36 | .85 | 1.16 | .90 | .75 | .50 |
| 2 | .36 | .23 | .63 | .58 | .88 | 1.11 | 1.28 | .85 | 1.30 | .78 | .60 | .56 |
| 3 | .34 | .23 | .66 | .62 | .84 | 1.10 | 1.53 | .80 | 1.02 | .98 | .55 | .57 |
| 4 | .32 | .24 | .64 | .88 | .82 | 1.36 | 1.60 | .78 | .97 | 1.08 | .64 | .66 |
| 5 | .30 | .29 | .60 | .58 | .81 | 1.20 | 1.41 | .76 | .89 | .84 | 1.04 | .65 |
| 6 | .28 | .27 | .58 | .54 | .78 | 1.08 | 1.34 | .76 | .90 | .80 | .75 | .48 |
| 7 | .28 | .33 | .56 | .53 | .76 | 1.02 | 1.30 | .84 | 1.25 | .66 | .64 | .40 |
| 8 | .23 | .46 | .54 | .72 | .74 | .99 | 1.25 | .78 | 1.00 | .63 | .55 | .36 |
| 9 | .23 | 1.82 | .53 | .69 | .74 | .97 | 1.22 | .77 | .91 | .59 | .53 | .34 |
| 10 | .25 | 1.85 | .52 | .59 | .84 | .94 | 1.19 | .77 | .83 | .60 | .46 | .33 |
| 11 | .26 | 1.03 | .51 | .57 | .77 | .92 | 1.15 | .76 | .77 | .55 | .50 | .43 |
| 12 | .26 | .78 | .52 | .71 | .76 | 1.14 | 1.12 | .74 | .73 | .48 | .54 | .34 |
| 13 | .24 | .67 | .50 | .68 | .79 | 1.89 | 1.15 | .70 | .72 | .45 | .93 | .29 |
| 14 | .24 | .60 | .73 | .63 | .82 | 1.36 | 1.11 | .66 | .72 | .46 | .86 | .25 |
| 15 | .22 | .54 | .71 | .62 | .82 | 1.80 | 1.12 | .65 | .72 | .41 | .71 | .27 |
| 16 | .22 | .52 | .94 | .59 | .81 | 1.70 | 1.12 | .63 | .64 | .39 | .59 | .20 |
| 17 | .21 | .70 | 1.86 | .58 | 1.00 | 1.45 | 1.03 | .60 | .59 | .38 | .60 | .19 |
| 18 | .22 | .61 | 1.23 | .93 | .88 | 1.32 | .99 | .59 | .53 | .36 | .64 | .17 |
| 19 | .23 | .61 | 1.04 | 3.28 | .83 | 1.23 | .99 | .59 | .49 | .36 | .50 | .26 |
| 20 | .24 | .70 | .90 | 2.61 | .80 | 1.94 | .98 | .65 | .49 | .36 | .46 | .71 |
| 21 | .26 | .61 | .83 | 1.66 | .79 | 1.98 | .97 | .79 | .51 | .41 | .39 | .50 |
| 22 | .25 | .55 | .79 | 1.38 | 1.12 | 1.59 | .96 | .86 | .49 | .36 | .34 | .35 |
| 23 | .22 | .53 | .73 | 1.21 | 1.11 | 1.43 | .94 | .91 | .43 | .31 | .32 | .28 |
| 24 | .23 | .56 | .74 | 1.10 | .97 | 1.34 | .93 | .71 | .51 | .30 | .30 | 1.37 |
| 25 | .25 | 1.44 | .70 | 1.02 | 1.81 | 1.28 | .93 | 1.14 | .52 | .59 | .35 | 1.07 |
| 26 | .48 | 1.38 | .67 | .95 | 1.99 | 1.22 | .91 | .98 | .79 | .65 | .34 | .69 |
| 27 | .31 | 1.02 | .68 | .92 | 1.47 | 1.17 | .88 | .77 | 1.14 | .51 | .34 | .56 |
| 28 | .27 | .86 | .71 | .87 | 1.29 | 1.14 | .86 | .98 | 1.43 | .99 | .33 | .47 |
| 29 | .24 | .77 | .66 | .85 | --- | 1.42 | .84 | 1.14 | .79 | .66 | .34 | .41 |
| 30 | .24 | .71 | .62 | 1.17 | --- | 1.85 | .83 | .89 | 1.00 | .70 | .29 | .37 |
| 31 | .23 | --- | .57 | 1.04 | --- | 1.49 | --- | .77 | --- | 1.18 | .34 | --- |
| MEAN | .27 | .70 | .73 | .96 | .96 | 1.34 | 1.11 | .79 | .81 | .60 | .53 | .47 |

STATION NUMBER 02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA STREAM SOURCE AGENCY USGS
 LATITUDE 343227 LONGITUDE 0833714 DRAINAGE AREA 315.00 DATUM 1128.53 STATE 13 COUNTY 137

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
 DAILY SUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| 1 | --- | --- | --- | --- | --- | --- | --- | .00 | .80 | .00 | .00 | .15 |
| 2 | --- | --- | --- | --- | --- | --- | --- | .00 | .01 | .00 | .07 | .06 |
| 3 | --- | --- | --- | --- | --- | --- | --- | .00 | .64 | .74 | .01 | .20 |
| 4 | --- | --- | --- | --- | --- | --- | --- | .00 | .41 | .07 | .24 | .27 |
| 5 | --- | --- | --- | --- | --- | --- | --- | .00 | .00 | .05 | .27 | .00 |
| 6 | --- | --- | --- | --- | --- | --- | --- | .93 | .49 | .00 | .17 | .00 |
| 7 | --- | --- | --- | --- | --- | --- | --- | .01 | .07 | .00 | .00 | .00 |
| 8 | --- | --- | --- | --- | --- | --- | --- | .00 | .02 | .00 | .07 | .00 |
| 9 | --- | --- | --- | --- | --- | --- | --- | .04 | .00 | .01 | .00 | .00 |
| 10 | --- | --- | --- | --- | --- | --- | --- | .00 | .00 | .00 | .00 | .04 |
| 11 | --- | --- | --- | --- | --- | --- | --- | .01 | .00 | .00 | .06 | .00 |
| 12 | --- | --- | --- | --- | --- | --- | --- | .00 | .00 | .00 | 1.28 | .18 |
| 13 | --- | --- | --- | --- | --- | --- | --- | .00 | .00 | .00 | .57 | .00 |
| 14 | --- | --- | --- | --- | --- | --- | --- | .00 | .20 | .00 | .00 | .01 |
| 15 | --- | --- | --- | --- | --- | --- | --- | .00 | .02 | .00 | .00 | .00 |
| 16 | --- | --- | --- | --- | --- | --- | .01 | .00 | .00 | .00 | .00 | .00 |
| 17 | --- | --- | --- | --- | --- | --- | .00 | .00 | .00 | .00 | .01 | .00 |
| 18 | --- | --- | --- | --- | --- | --- | .00 | .00 | .01 | .00 | .00 | .00 |
| 19 | --- | --- | --- | --- | --- | --- | .00 | .37 | .00 | .00 | .01 | .76 |
| 20 | --- | --- | --- | --- | --- | --- | .00 | .01 | .00 | .06 | .01 | .01 |
| 21 | --- | --- | --- | --- | --- | --- | .00 | .52 | .00 | .00 | .01 | .00 |
| 22 | --- | --- | --- | --- | --- | --- | .00 | .15 | .28 | .00 | .00 | .00 |
| 23 | --- | --- | --- | --- | --- | --- | .00 | .00 | .00 | .00 | .00 | .00 |
| 24 | --- | --- | --- | --- | --- | --- | .05 | .47 | .01 | .24 | .00 | .69 |
| 25 | --- | --- | --- | --- | --- | --- | .03 | .58 | .34 | .44 | .01 | .00 |
| 26 | --- | --- | --- | --- | --- | --- | .00 | .00 | .92 | .00 | .00 | .00 |
| 27 | --- | --- | --- | --- | --- | --- | .00 | .00 | .87 | .23 | .00 | .00 |
| 28 | --- | --- | --- | --- | --- | --- | .00 | 1.08 | .00 | .07 | .00 | .00 |
| 29 | --- | --- | --- | --- | --- | --- | .00 | .37 | .16 | .14 | .00 | .00 |
| 30 | --- | --- | --- | --- | --- | --- | .01 | .00 | .10 | .04 | .06 | .00 |
| 31 | --- | --- | --- | --- | --- | --- | --- | .34 | --- | .00 | .23 | --- |
| TOTAL | --- | --- | --- | --- | --- | --- | --- | 4.88 | 5.35 | 2.09 | 3.08 | 2.37 |