# SOLAR RADIATION AND SUNSPOT DATA FOR MARCH 1947

[Solar Radiation Investigations Section, I. F. HAND in Charge]

## SOLAR RADIATION OBSERVATIONS

Explanations of the tables and references to descriptions of instruments, stations, and methods of observation, and to summaries of data, are given in the MONTHLY WEATHER REVIEW, vol. 72, No. 1, January 1944, page 43. A list of pyrheliometric stations is also given on page 45 of the same issue.

Beginning with this issue all values of air masses have been corrected for elevation above sea level through the use of the formula

$$m_c = \frac{(B-e)m_s}{76.0}$$

where $m_c$ is the corrected air mass,
$m_s$ is the sea level air mass,
$B$ is the barometric pressure (in cm.) of the station,
and $e$ is the vapor pressure.

TABLE 1.—*Solar radiation intensities during March 1947*

[GRAM CALORIES PER MINUTE PER SQUARE CENTIMETER OF NORMAL SURFACE]

| Date | Sun's zenith distance | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7:30 a. m.[1] | 78.7° | 75.7° | 70.7° | 60.0° | 0.0° | 60.0° | 70.7° | 75.7° | 78.7° | 1:30 p. m.[1] |
| | | A. M. | | | | | P. M. | | | | |
| **MADISON, WIS.** | | | | | | | | | | | |
| | Air mass / e. | 4.81 | 3.84 | 2.88 | 1.92 | 0.96* | 1.92 | 2.88 | 3.84 | 4.81 | e. |
| | mb. | cal. | cal. | cal. | cal. | cal. | cal. | cal. | cal. | cal. | mb. |
| Mar. 4 | 2.1 | | 0.92 | 1.14 | 1.31 | 1.45 | | | | | 3.7 |
| Mar. 5 | 2.3 | 0.87 | .98 | 1.11 | 1.24 | 1.44 | | | | | 3.5 |
| Mar. 6 | 3.5 | .61 | .71 | | 1.11 | | | | | | 4.6 |
| Mar. 10 | 3.3 | .83 | 1.02 | 1.14 | 1.26 | | | | | | 4.8 |
| Mar. 16 | 2.3 | .59 | .69 | .80 | 1.01 | 1.45 | | | | | 2.7 |
| Mar. 18 | 2.5 | .88 | .91 | 1.16 | 1.24 | 1.51 | | | | | 3.8 |
| Mar. 19 | 3.1 | .59 | .68 | .90 | .81 | 1.47 | | | | | 4.0 |
| Mar. 20 | 3.8 | .75 | .90 | 1.04 | 1.25 | 1.42 | | | | | 4.4 |
| Mar. 26 | 2.3 | .90 | 1.04 | 1.19 | 1.37 | 1.53 | | | | | 3.3 |
| Mar. 27 | 2.9 | | .90 | 1.11 | 1.35 | 1.51 | | | | | 3.3 |
| Means | | .75 | .88 | 1.07 | 1.20 | 1.47 | | | | | |
| Departures | | −.05 | −.07 | −.03 | −.08 | −.04 | | | | | |
| **LINCOLN, NEBR.** | | | | | | | | | | | |
| | Air mass / e. | 4.77 | 3.81 | 2.86 | 1.91 | 0.95* | 1.91 | 2.86 | 3.81 | 4.77 | e. |
| | mb. | cal. | cal. | cal. | cal. | cal. | cal. | cal. | cal. | cal. | mb. |
| Mar. 6 | 2.9 | | | 0.98 | 1.15 | | | | | | 3.3 |
| Mar. 21 | 4.0 | | 1.01 | 1.14 | 1.29 | 1.52 | 1.22 | 1.14 | 1.01 | 0.94 | 4.4 |
| Mar. 25 | 3.5 | 0.96 | 1.05 | 1.16 | | | | | | | 4.6 |
| Mar. 28 | 4.8 | | | | | 1.46 | 1.18 | .96 | .76 | | 5.8 |
| Mar. 29 | 4.6 | | | | 1.27 | 1.45 | 1.16 | 1.01 | .90 | .79 | 4.6 |
| Mar. 31 | 10.2 | | | | | | 1.16 | .94 | .77 | .66 | 10.0 |
| Means | | (.96) | (1.03) | 1.09 | 1.24 | 1.47 | 1.18 | 1.01 | .86 | .80 | |
| Departures | | +.14 | +.10 | +.01 | −.03 | −.03 | −.08 | −.07 | −.07 | −.01 | |
| **BLUE HILL, MASS.** | | | | | | | | | | | |
| | Air mass / e. | 4.86 | 3.89 | 2.92 | 1.94 | 0.97* | 1.94 | 2.92 | 3.89 | 4.86 | e. |
| | mb. | cal. | cal. | cal. | cal. | cal. | cal. | cal. | cal. | cal. | mb. |
| Mar. 1 | 2.6 | 1.00 | 1.07 | 1.17 | | | 1.22 | 1.00 | | | 3.0 |
| Mar. 4 | 3.5 | .74 | .85 | 1.02 | | | | | | | 3.0 |
| Mar. 5 | 3.8 | | | .69 | 0.90 | | | | | | 3.1 |
| Mar. 6 | 4.8 | 1.00 | 1.08 | 1.20 | 1.35 | | | 1.18 | 1.08 | 1.00 | 4.9 |
| Mar. 7 | 4.6 | .94 | 1.03 | 1.16 | 1.35 | | | | | | 3.9 |
| Mar. 9 | 4.4 | .92 | 1.03 | 1.12 | 1.31 | | | | | | 3.3 |
| Mar. 12 | 4.7 | | | 1.09 | 1.20 | | 1.24 | 1.11 | 1.02 | .95 | 4.5 |
| Mar. 13 | 3.9 | .89 | 1.00 | 1.13 | 1.29 | | | | .77 | | 3.8 |
| Mar. 15 | 4.1 | .89 | 1.02 | 1.12 | | | | .90 | .73 | .59 | 4.7 |
| Mar. 16 | 2.5 | .93 | 1.02 | 1.12 | 1.28 | | | .89 | .70 | .65 | 2.6 |

See footnotes at end of table.

TABLE 1.—*Solar radiation intensities during March 1947*—Con.

[GRAM CALORIES PER MINUTE PER SQUARE CENTIMETER OF NORMAL SURFACE]

| Date | Sun's zenith distance | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7:30 a. m.[1] | 78.7° | 75.7° | 70.7° | 60.0° | 0.0° | 60.0° | 70.7° | 75.7° | 78.7° | 1:30 p. m.[1] |
| | | A. M. | | | | | P. M. | | | | |
| **BLUE HILL, MASS.—Continued** | | | | | | | | | | | |
| | Air mass / e. | 4.86 | 3.89 | 2.92 | 1.94 | 0.97* | 1.94 | 2.92 | 3.89 | 4.86 | e. |
| | mb. | cal. | cal. | cal. | cal. | cal. | cal. | cal. | cal. | cal. | mb. |
| Mar. 17 | 3.0 | .44 | .54 | .72 | | | | | | | 2.5 |
| Mar. 18 | 3.0 | .90 | 1.00 | 1.11 | 1.31 | | 1.13 | .93 | | .69 | 2.2 |
| Mar. 19 | 2.9 | .95 | 1.05 | 1.18 | 1.35 | | 1.25 | 1.04 | .76 | .67 | 2.2 |
| Mar. 20 | 4.0 | .67 | .83 | .98 | 1.15 | | | | | | 3.2 |
| Mar. 23 | 4.7 | | .46 | .64 | | | | | | | 3.1 |
| Mar. 27 | 2.6 | | 1.03 | 1.16 | | | | 1.13 | .92 | .84 | 2.3 |
| Mar. 30 | 5.3 | .79 | .93 | | | | 1.30 | 1.06 | .89 | .70 | 2.6 |
| Mar. 31 | 2.4 | .94 | 1.05 | 1.15 | 1.34 | | 1.35 | 1.19 | 1.04 | .93 | 2.5 |
| Means | | .86 | .94 | 1.04 | 1.26 | | 1.25 | 1.04 | .88 | .78 | |
| Departures | | −.01 | −.02 | −.04 | +.02 | | +.02 | .00 | −.05 | −.04 | |
| **TABLE MOUNTAIN, CALIF.** | | | | | | | | | | | |
| | Air mass / e. | 3.76 | 3.01 | 2.26 | 1.51 | 0.75* | 1.51 | 2.26 | 3.01 | 3.76 | e. |
| | mb. | cal. | cal. | cal. | cal. | cal. | cal. | cal. | cal. | cal. | mb. |
| Mar. 6 | | | | | 1.56 | | 1.51 | 1.33 | | | |
| Mar. 13 | | | | 1.42 | 1.55 | | | | | | |
| Mar. 17 | | | | | | | 1.50 | 1.33 | 1.19 | 1.14 | |
| Mar. 19 | | | | 1.34 | 1.51 | | 1.47 | 1.33 | 1.20 | 1.11 | |
| Mar. 20 | | | | | | | 1.46 | 1.30 | 1.21 | 1.10 | |
| Mar. 21 | | | | 1.32 | 1.47 | | 1.46 | 1.32 | 1.20 | 1.12 | |
| Mar. 22 | | | | 1.30 | 1.46 | | 1.42 | | | | |
| Mar. 25 | | | | 1.30 | 1.48 | | 1.45 | 1.31 | | | |
| Mar. 27 | | | | | 1.51 | 1.65 | 1.50 | 1.36 | 1.25 | 1.14 | |
| Means | | | | 1.34 | 1.51 | (1.65) | 1.47 | 1.33 | 1.21 | 1.12 | |
| **CLIMAX, COLO.** | | | | | | | | | | | |
| | Air mass / e. | 3.24 | 2.59 | 1.94 | 1.29 | 0.65* | 1.29 | 1.94 | 2.59 | 3.24 | e. |
| | mb. | cal. | cal. | cal. | cal. | cal. | cal. | cal. | cal. | cal. | mb. |
| Mar. 3 | | | | | 1.49 | | | | | | |
| Mar. 4 | | | | | 1.46 | | | | | | |
| Mar. 6 | | | | | 1.47 | | | | | | |
| Mar. 9 | | | | | 1.43 | | | | | | |
| Mar. 12 | | 1.16 | 1.25 | 1.35 | 1.49 | 1.63 | | | | | |
| Mar. 14 | | | | | 1.47 | | | | | | |
| Mar. 15 | | | | | 1.45 | | | | | | |
| Mar. 18 | | | | | 1.43 | | | | | | |
| Mar. 19 | | | | | 1.37 | | | | | | |
| Mar. 22 | | | | | 1.43 | | | | | | |
| Mar. 23 | | | | | 1.40 | | | | | | |
| Mar. 27 | | | | | 1.40 | | | | | | |
| Mar. 29 | | 1.19 | 1.27 | 1.38 | 1.49 | 1.62 | | | | | |
| Mar. 31 | | | | | 1.44 | | | | | | |
| Means | | (1.18) | (1.26) | (1.36) | 1.44 | (1.62) | | | | | |
| **BOSTON, MASS** | | | | | | | | | | | |
| | Air mass / e. | 4.96 | 3.96 | 2.97 | 1.98 | 0.99* | 1.98 | 2.97 | 3.96 | 4.96 | e. |
| | mb. | cal. | cal. | cal. | cal. | cal. | cal. | cal. | cal. | cal. | mb. |
| Mar. 18 | 2.7 | | | | 1.11 | | | | | | 2.2 |
| Mar. 19 | 2.3 | | | | | | 1.13 | 0.85 | 0.74 | | 2.2 |
| Mar. 20 | 4.2 | | | | .84 | | | | | | 5.1 |
| Mar. 31 | 2.5 | 0.56 | 0.62 | 0.69 | 1.18 | 1.21 | | | | | 2.7 |
| Means | | (.56) | (.62) | (.69) | 1.04 | (1.21) | (1.13) | (.85) | (.74) | | |
| Departures | | +.03 | .00 | −.11 | +.04 | .00 | +.05 | −.03 | +.03 | | |
| **RATIO, BOSTON/BLUE HILL ON COMPARABLE DATES** | | | | | | | | | | | |
| | | (0.60) | (0.59) | (0.60) | 0.82 | | (0.90) | (0.82) | (0.97) | | |

*Extrapolated. [1] 75th meridian time.

TABLE 2.—*Daily totals and weekly means of solar radiation (direct + diffuse) received on a horizontal surface*

[Gram calories per square centimeter]

| Date | Washington, D. C. | Madison, Wis. | Lincoln, Nebr. | East Lansing, Mich. | New York, N. Y. | Fresno, Calif. | Columbia, Mo. | Boston, Mass. | Nashville, Tenn. | Twin Falls, Idaho | La Jolla, Calif. | Riverside, Calif. | Blue Hill, Mass. | Newport, R. I. | Salt Lake City, Utah | Put-in-Bay, Ohio | State College, Pa. | Davis, Calif. | Tooele, Utah | New Orleans, La. | Toronto, Canada | Ithaca, N. Y. | Boulder, Colo. | Soda Springs, Calif. | East Wareham, Mass. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *1947* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* |
| Feb. 26 | 309 | 243 | 253 | 340 | 201 | 374 | 415 | 336 | 384 | 306 | ----- | 212 | 410 | 388 | 302 | 301 | 272 | 218 | 389 | 100 | 206 | 174 | 313 | 328 | 363 |
| Feb. 27 | 386 | 418 | 312 | 272 | 294 | 280 | 392 | 256 | 362 | 265 | 340 | 98 | 323 | 239 | 136 | 267 | 231 | 305 | 167 | 173 | 130 | 270 | 336 | 203 | 294 |
| Feb. 28 | 346 | 348 | 209 | 378 | 326 | 376 | 76 | 217 | 208 | 282 | 401 | 306 | 348 | 333 | 252 | 414 | 352 | 338 | 455 | 61 | 176 | 278 | 209 | 363 | 334 |
| Mar. 1 | 116 | 259 | 276 | 182 | 184 | 173 | 246 | 315 | 34 | 281 | 367 | 377 | 363 | 387 | 380 | 116 | 94 | 106 | 412 | 244 | 103 | 311 | 485 | 43 | 364 |
| Mar. 2 | 126 | 253 | 387 | 274 | 42 | 444 | 455 | 6 | 157 | 293 | 305 | 376 | 35 | 30 | 202 | 256 | 59 | 302 | 328 | 484 | 29 | 86 | 346 | 213 | 40 |
| Mar. 3 | 381 | 308 | 350 | 332 | 241 | 127 | 375 | 163 | 404 | 169 | 445 | 485 | 156 | 153 | 273 | 403 | 257 | 197 | 280 | 345 | 102 | 167 | 506 | 93 | 162 |
| Mar. 4 | 463 | 399 | 284 | 328 | 258 | 338 | 372 | 275 | 254 | 318 | 378 | 338 | 302 | 327 | 126 | 329 | 307 | 342 | 442 | 132 | 183 | 232 | 144 | 299 | 247 |
| Means | 304 | 318 | 296 | 301 | 221 | 309 | 333 | 224 | 258 | 273 | 373 | 313 | 277 | 265 | 239 | 298 | 225 | 258 | 353 | 220 | 133 | 217 | 334 | 220 | 258 |
| Departures | +26 | +46 | −10 | +70 | −34 | −46 | +50 | −11 | +1 | −14 | −7 | −35 | −10 | −18 | ----- | +64 | −5 | −53 | −1 | −56 | −61 | −9 | +11 | ----- | −17 |
| Mar. 5 | 496 | 399 | 123 | 279 | 399 | 456 | 60 | 305 | 64 | 190 | 360 | 432 | 337 | 314 | 294 | 374 | 433 | 503 | 464 | 248 | 238 | 121 | 270 | 439 | 314 |
| Mar. 6 | 482 | 299 | 293 | 194 | 378 | 461 | 305 | 211 | 92 | 416 | 471 | 500 | 341 | 445 | 287 | 358 | 227 | 352 | 444 | 45 | 256 | 165 | 426 | 396 | 335 |
| Mar. 7 | 385 | 222 | 246 | 238 | 417 | 455 | 226 | 263 | 71 | 194 | 410 | 476 | 321 | 362 | 304 | 237 | 421 | 358 | 368 | 70 | 331 | 334 | 309 | 165 | 266 |
| Mar. 8 | 246 | 287 | 201 | 364 | 154 | 350 | 458 | 241 | 265 | 239 | 321 | 110 | 217 | 173 | 191 | 259 | 425 | 264 | 431 | 159 | 411 | 340 | 363 | 233 | 182 |
| Mar. 9 | 427 | 381 | 227 | 207 | 391 | 371 | 478 | 314 | 459 | 284 | 445 | 475 | 334 | 400 | 315 | 262 | 389 | 114 | 525 | 227 | 328 | 218 | 455 | 187 | 262 |
| Mar. 10 | 470 | 353 | 135 | 436 | 267 | 318 | 364 | 123 | 294 | 200 | 389 | 454 | 163 | 239 | 206 | 483 | 160 | 207 | 245 | 431 | 380 | 209 | 211 | 282 | 170 |
| Mar. 11 | 462 | 168 | 76 | 440 | 337 | 426 | 297 | 209 | 470 | 347 | 428 | 500 | 225 | 214 | 288 | 460 | 340 | 515 | 444 | 446 | 304 | 254 | 142 | 539 | 241 |
| Means | 424 | 301 | 186 | 308 | 335 | 405 | 313 | 238 | 244 | 267 | 403 | 421 | 277 | 307 | 269 | 348 | 342 | 330 | 417 | 232 | 321 | 235 | 310 | 320 | 253 |
| Departures | +111 | +4 | −136 | +61 | +60 | +3 | +11 | −22 | −38 | −78 | −18 | +3 | −18 | +5 | ----- | +74 | +62 | −31 | +21 | −87 | +79 | −17 | −47 | ----- | −28 |
| Mar. 12 | 448 | 230 | 23 | 356 | 398 | 510 | 87 | 349 | 363 | 458 | 472 | 542 | 453 | 449 | 454 | 402 | 429 | 526 | 550 | 247 | 305 | 304 | 295 | 516 | 373 |
| Mar. 13 | 202 | 20 | 305 | 104 | 293 | 517 | 41 | 387 | 79 | 410 | 492 | 529 | 457 | 445 | 472 | 95 | 251 | 516 | 536 | 119 | 184 | 254 | 434 | 539 | 419 |
| Mar. 14 | 288 | 329 | 325 | 142 | 69 | 518 | 179 | 52 | 162 | 448 | 478 | 524 | 57 | 54 | 458 | 92 | 174 | 523 | 547 | 504 | 86 | 79 | 188 | 542 | 67 |
| Mar. 15 | 491 | 263 | 461 | 260 | 426 | 518 | 253 | 410 | 133 | 435 | 483 | 508 | 452 | 448 | 486 | 330 | 151 | 532 | 555 | 510 | 297 | 156 | 556 | 541 | 436 |
| Mar. 16 | 390 | 472 | 210 | 340 | 428 | 380 | 478 | 424 | 98 | 454 | 281 | 315 | 474 | 476 | 489 | 252 | 247 | 468 | 559 | 538 | 406 | 175 | 553 | 547 | 458 |
| Mar. 17 | 354 | 450 | 349 | 240 | 274 | 512 | 584 | 280 | 116 | 454 | 429 | 503 | 296 | 230 | 486 | 314 | 251 | 506 | 544 | 527 | 259 | 197 | 513 | 550 | 260 |
| Mar. 18 | 402 | 435 | 297 | 402 | 457 | 488 | 200 | 420 | 460 | 467 | 146 | 92 | 385 | 455 | 485 | 241 | 272 | 162 | 556 | 240 | 327 | 185 | 364 | 309 | 475 |
| Means | 368 | 314 | 282 | 264 | 335 | 492 | 260 | 332 | 202 | 446 | 397 | 430 | 368 | 365 | 476 | 246 | 254 | 462 | 549 | 384 | 266 | 193 | 414 | 506 | 355 |
| Departures | +48 | +4 | −54 | +23 | +56 | +84 | −50 | +42 | −79 | +112 | +11 | +38 | +63 | +53 | ----- | −21 | −10 | +77 | +101 | +32 | +10 | −42 | +20 | ----- | +57 |
| Mar. 19 | 309 | 439 | 126 | 414 | 371 | 294 | 289 | 445 | 406 | 459 | ----- | 188 | 510 | 501 | 498 | 360 | 329 | 331 | 548 | 142 | 413 | 281 | 431 | 561 | 477 |
| Mar. 20 | 461 | 416 | 340 | 359 | 230 | 425 | 306 | 345 | 71 | 470 | ----- | 96 | 430 | 435 | 509 | 356 | 348 | 514 | 559 | 543 | 293 | 178 | 522 | 570 | 426 |
| Mar. 21 | 280 | 225 | 537 | 153 | 301 | 487 | 150 | 300 | 479 | 423 | 250 | 156 | 334 | 289 | 502 | 157 | 238 | 362 | 576 | 493 | 100 | 290 | 527 | 567 | 155 |
| Mar. 22 | 285 | 292 | 520 | 299 | 121 | 516 | 535 | 418 | 529 | 316 | 259 | 189 | 430 | 416 | 416 | 482 | 246 | 320 | 472 | 489 | 366 | 130 | 544 | 192 | 458 |
| Mar. 23 | 348 | 308 | 449 | 207 | 199 | 588 | 184 | 419 | 80 | 412 | 415 | 202 | 491 | 481 | ----- | 208 | 246 | 537 | 449 | 247 | 321 | 140 | 438 | 390 | 452 |
| Mar. 24 | 196 | 52 | 429 | 32 | 57 | 525 | 212 | 77 | 297 | 504 | 538 | 575 | 101 | 120 | 491 | 108 | 116 | 514 | 589 | 516 | 18 | 103 | 544 | 553 | 120 |
| Mar. 25 | 366 | 408 | 383 | 295 | 230 | 496 | 544 | 179 | 478 | 426 | 519 | 556 | 229 | 322 | 455 | 170 | 151 | 368 | 585 | 581 | 68 | 86 | 571 | 458 | 287 |
| Means | 321 | 306 | 398 | 251 | 216 | 476 | 317 | 312 | 334 | 430 | 396 | 280 | 361 | 366 | 478 | 263 | 239 | 421 | 540 | 430 | 226 | 173 | 511 | 470 | 339 |
| Departures | −21 | −27 | +18 | −53 | −118 | +28 | −25 | −12 | +10 | +34 | −46 | −110 | −13 | −35 | ----- | −60 | −82 | +22 | +71 | +69 | −43 | −127 | +71 | ----- | +7 |
| Mar. 26 | 413 | 537 | 232 | 395 | 308 | 579 | 390 | 259 | 485 | 491 | 465 | 528 | 340 | 394 | 306 | 306 | 428 | 566 | 376 | 532 | 435 | 196 | 486 | 565 | 353 |
| Mar. 27 | 408 | 508 | 510 | 513 | 361 | 267 | 445 | 416 | 29 | 521 | 465 | 351 | 514 | 395 | 541 | 491 | 316 | 284 | 561 | 501 | 401 | 261 | 584 | 184 | 333 |
| Mar. 28 | 559 | 315 | 576 | 212 | 508 | 571 | 584 | 411 | 534 | 505 | 335 | 368 | 474 | 488 | 387 | 332 | 483 | 387 | 503 | 420 | 106 | 257 | 430 | 239 | 412 |
| Mar. 29 | 376 | 531 | 573 | 219 | 221 | 472 | 614 | 185 | 488 | 334 | 544 | 565 | 228 | 315 | 509 | 247 | 128 | 316 | 618 | 248 | 141 | 142 | 310 | 156 | 334 |
| Mar. 30 | 606 | 298 | 387 | 532 | 518 | 550 | 611 | 462 | 501 | 429 | ----- | 346 | 509 | 539 | 366 | 587 | 494 | 276 | 524 | 238 | 509 | 223 | 555 | 312 | 566 |
| Mar. 31 | 548 | 164 | 402 | 338 | 524 | 602 | 9 | 510 | 570 | 369 | ----- | 530 | 598 | 594 | 486 | 440 | 439 | 534 | 628 | 334 | 505 | 389 | 578 | 618 | 558 |
| Apr. 1 | 505 | 242 | 515 | 192 | 216 | 437 | ----- | 383 | 175 | 324 | 359 | 327 | 474 | 488 | 359 | 94 | 352 | 484 | 344 | 93 | 149 | 211 | 464 | 286 | 479 |
| Means | 488 | 371 | 456 | 343 | 380 | 497 | ----- | 375 | 397 | 425 | 433 | 430 | 448 | 459 | 422 | 357 | 377 | 407 | 508 | 338 | 321 | 240 | 487 | 337 | 434 |
| Departures | +130 | +12 | +72 | +15 | +48 | +29 | ----- | +18 | +40 | +53 | −48 | +15 | +54 | +69 | ----- | +4 | +2 | −61 | +57 | −26 | +25 | −62 | +24 | ----- | +63 |

ACCUMULATED DEPARTURES ON APR. 1, 1947

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +2,898 | +497 | −1,302 | +973 | +329 | +385 | ----- | +21 | −182 | +1,617 | −784 | +1,477 | +266 | −357 | ----- | −224 | +1,211 | −1,218 | +3,682 | ----- | +21 | −602 | +609 | ----- | ----- |