# SOLAR RADIATION DATA FOR MARCH 1949

Explanation of tables 1 and 2 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, p. 43. A list of pyrheliometric stations is given on page 45 of that issue. An explanation of the formula used in computing the air mass values for each station listed in table 1 appears in vol. 75, No. 3, March 1947, p. 47.

In mid-March, Eppley 180° pyrheliometers and Brown integrating potentiometers were installed at the Weather Bureau Airport offices in Albany, N. Y., and Portland, Maine.

The coordinates of the Albany station are latitude 42° 45′ N.; longitude 75°48′ W.; and elevation 94 meters. There are no serious obstructions to the free horizon, although the airport beacon to the WSW will create momentary shading near sunset in early spring and late autumn. Located within the triangle formed by Troy, Albany, and Schenectady, industrial smoke from one or more of these cities may be expected to vitiate the record to some extent.

The coordinates of the Portland station are latitude 43°39′ N.; longitude 70°19′ W.; and elevation 10 meters. The horizon offers few obstructions to the instrument, except to the north where the glass-enclosed control tower shades an appreciable amount of radiation from the northern sky.

Starting with March 5, 1949, with the Albany record and March 24, 1949, with the Portland record, daily totals and weekly means of total solar and sky radiation received on a horizontal surface at these stations will appear regularly in table 2.

TABLE 1.—*Solar radiation intensities during March 1949*

[Gram calories per minute per square centimeter of normal surface]

| Date | Sun's zenith distance | | | | | | | | | Vapor pressure | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | A. M. | | | | 0.0° | P. M. | | | | | |
| | 78.7° | 75.7° | 70.7° | 60.0° | | 60.0° | 70.7° | 75.7° | 78.7° | 7:30 a. m.[1] | 1:30 p. m.[1] |
| **MADISON, WIS.** | | | | | | | | | | | |
| | Air mass | | | | | | | | | | |
| | 4.81 | 3.84 | 2.88 | 1.92 | *0.96 | 1.92 | 2.88 | 3.84 | 4.81 | | |
| *March* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *mb.* | *mb.* |
| 1 | 0.79 | 0.96 | 1.10 | 1.14 | ------ | 1.25 | ------ | ------ | ------ | 0.8 | 1.6 |
| 4 | ------ | ------ | ------ | ------ | ------ | 1.21 | ------ | ------ | ------ | 6.1 | 6.4 |
| 7 | .90 | 1.03 | 1.15 | 1.33 | ------ | ------ | ------ | ------ | ------ | 2.2 | 3.1 |
| 10 | .92 | 1.08 | 1.16 | 1.35 | ------ | ------ | ------ | ------ | ------ | 1.7 | 2.2 |
| 11 | .87 | .99 | 1.15 | 1.31 | ------ | ------ | ------ | ------ | ------ | 1.9 | 1.9 |
| 12 | .95 | 1.07 | 1.21 | 1.35 | ------ | ------ | ------ | ------ | ------ | 1.7 | 1.7 |
| 15 | .90 | 1.02 | 1.14 | 1.33 | ------ | 1.31 | ------ | ------ | ------ | .9 | 1.4 |
| 17 | .91 | 1.03 | 1.18 | 1.34 | ------ | 1.16 | ------ | ------ | ------ | 1.4 | 1.8 |
| 19 | .92 | 1.03 | 1.15 | 1.26 | ------ | ------ | ------ | ------ | ------ | 1.3 | 2.1 |
| 28 | .71 | .86 | 1.02 | 1.21 | ------ | ------ | ------ | ------ | ------ | 5.8 | 5.8 |
| Means | .87 | 1.01 | 1.14 | 1.29 | ------ | 1.24 | ------ | ------ | ------ | ------ | ------ |
| Departures | +.06 | +.06 | +.04 | +.02 | ------ | −.04 | ------ | ------ | ------ | ------ | ------ |

TABLE 1.—*Solar radiation intensities during March 1949*—Con.

| Date | Sun's zenith distance | | | | | | | | | Vapor pressure | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | A. M. | | | | 0.0° | P. M. | | | | | |
| | 78.7° | 75.7° | 70.7° | 60.0° | | 60.0° | 70.7° | 75.7° | 78.7° | 7:30 a. m.[1] | 1:30 p. m.[1] |
| **BLUE HILL, MASS.** | | | | | | | | | | | |
| | Air mass | | | | | | | | | | |
| | 4.86 | 3.89 | 2.92 | 1.94 | *0.97 | 1.94 | 2.92 | 3.89 | 4.86 | | |
| *March* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *mb.* | *mb.* |
| 3 | ------ | ------ | ------ | ------ | ------ | 1.38 | 1.19 | 1.06 | 0.94 | 1.4 | 1.7 |
| 4 | 1.03 | 1.11 | 1.24 | 1.37 | ------ | ------ | ------ | ------ | ------ | 1.8 | 2.5 |
| 9 | .90 | .94 | ------ | 1.23 | ------ | 1.36 | 1.22 | 1.10 | ------ | 4.1 | 5.8 |
| 14 | 1.02 | 1.15 | 1.26 | 1.39 | ------ | 1.28 | 1.10 | .95 | .87 | 2.6 | 2.8 |
| 16 | 1.00 | 1.11 | 1.24 | 1.39 | ------ | 1.41 | 1.26 | 1.14 | 1.03 | 1.5 | 1.5 |
| 17 | .38 | .47 | ------ | ------ | ------ | 1.38 | 1.23 | 1.12 | 1.03 | 3.6 | 2.2 |
| 19 | 1.12 | 1.20 | 1.30 | 1.45 | ------ | ------ | 1.27 | 1.14 | 1.04 | 1.0 | 1.6 |
| 20 | 1.05 | 1.16 | 1.29 | 1.42 | ------ | 1.38 | 1.22 | 1.06 | .94 | 0.9 | 1.4 |
| 24 | ------ | ------ | ------ | ------ | ------ | 1.09 | .95 | .73 | .64 | 5.6 | 5.9 |
| 29 | .78 | .90 | 1.02 | 1.18 | ------ | ------ | ------ | ------ | ------ | 4.8 | 4.8 |
| Means | .91 | 1.00 | 1.22 | 1.35 | ------ | 1.33 | 1.18 | 1.04 | .93 | ------ | ------ |
| Departures | +.03 | +.03 | +.13 | +.11 | ------ | +.09 | +.13 | +.10 | +.10 | ------ | ------ |
| **LINCOLN, NEBR.** | | | | | | | | | | | |
| | Air mass | | | | | | | | | | |
| | 4.77 | 3.81 | 2.86 | 1.91 | *0.95 | 1.91 | 2.86 | 3.81 | 4.77 | | |
| *March* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *mb.* | *mb.* |
| 25 | 0.88 | 0.96 | 1.09 | 1.22 | 1.36 | ------ | ------ | ------ | ------ | 5.3 | 5.3 |
| Means | .88 | .96 | 1.09 | 1.22 | 1.36 | ------ | ------ | ------ | ------ | ------ | ------ |
| Departures | +.06 | +.03 | +.01 | −.05 | −.14 | ------ | ------ | ------ | ------ | ------ | ------ |
| **TABLE MOUNTAIN, CALIF.** | | | | | | | | | | | |
| | Air mass | | | | | | | | | | |
| | 3.76 | 3.01 | 2.26 | 1.51 | *0.75 | 1.51 | 2.26 | 3.01 | 3.76 | | |
| *March* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *mb.* | *mb.* |
| 8 | ------ | ------ | ------ | 1.50 | ------ | ------ | ------ | ------ | ------ | ------ | ------ |
| 12 | 1.22 | 1.30 | 1.40 | 1.51 | ------ | ------ | ------ | ------ | ------ | ------ | ------ |
| 17 | 1.13 | 1.24 | 1.36 | 1.49 | ------ | ------ | ------ | ------ | ------ | ------ | ------ |
| 18 | ------ | ------ | ------ | 1.45 | ------ | ------ | ------ | ------ | ------ | ------ | ------ |
| 27 | 1.03 | 1.12 | 1.25 | 1.42 | ------ | ------ | ------ | ------ | ------ | ------ | ------ |
| Means | 1.13 | 1.22 | 1.34 | 1.47 | ------ | ------ | ------ | ------ | ------ | ------ | ------ |
| Departures | .00 | .00 | +.01 | +.01 | ------ | ------ | ------ | ------ | ------ | ------ | ------ |
| **BOSTON, MASS.** | | | | | | | | | | | |
| | Air mass | | | | | | | | | | |
| | 4.96 | 3.96 | 2.97 | 1.98 | *0.99 | 1.98 | 2.97 | 3.96 | 4.96 | | |
| *March* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *mb.* | *mb.* |
| 4 | 0.81 | 0.93 | ------ | ------ | ------ | ------ | ------ | ------ | ------ | 1.9 | 2.7 |
| 9 | .85 | .90 | 1.01 | 1.32 | ------ | 1.39 | 1.24 | ------ | ------ | 3.6 | 6.1 |
| 14 | 90 | .99 | 1.15 | 1.36 | ------ | 1.35 | ------ | ------ | ------ | 2.6 | 2.1 |
| 16 | ------ | .91 | 1.15 | 1.40 | ------ | 1.34 | 1.27 | 1.15 | ------ | 1.5 | 1.5 |
| 17 | ------ | ------ | ------ | 1.42 | ------ | 1.32 | 1.19 | ------ | ------ | 3.5 | 2.1 |
| Means | .85 | .93 | 1.10 | 1.38 | ------ | 1.35 | 1.23 | 1.15 | ------ | ------ | ------ |
| Departures | +.23 | +.22 | +.24 | +.31 | ------ | +.22 | +.24 | +.37 | ------ | ------ | ------ |

*Extrapolated

[1] 75th Meridian Time.

NOTE.—Figures in parenthesis are interpolated.

TABLE 2.—*Daily totals and weekly means of solar radiation (direct+diffuse) received on a horizontal surface during March 1949*

[Gram-calories per square centimeter]

| Date | Honolulu, T. H. | Pearl Harbor, T. H. | La Jolla, Calif. | Riverside, Calif. | Santa Maria, Calif. | Inyokern, Calif. | Oak Ridge, Tenn. | Nashville, Tenn. | Fresno, Calif. | Davis, Calif. | Washington, D. C. | Columbia, Mo. | Soda Springs, Calif. | Grand Lake, Colo. | New York, N. Y. | Salt Lake City, Utah | State College, Pa. | Lincoln, Nebr. | Newport, R. I. | Put-in-Bay, Ohio | East Wareham, Mass. | Blue Hill, Mass. | Boston, Mass. | Ithaca, N. Y. | Twin Falls, Idaho | Albany, N. Y. | East Lansing, Mich. | Madison, Wis. | Portland, Maine | Toronto, Canada | Summit, Mont. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *1949* | *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.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* |
| Feb. 26 | 381 | 417 | 127 | 76 | ---- | 331 | 353 | 425 | 110 | 124 | 351 | 351 | 321 | 485 | 426 | 248 | 382 | 147 | 246 | 295 | 168 | 64 | 92 | 71 | 400 | ---- | 295 | 280 | ---- | 374 | 350 |
| Feb. 27 | 610 | 503 | 220 | 215 | ---- | 203 | 25 | 64 | 155 | 421 | 238 | 168 | 456 | 503 | 321 | 278 | 429 | 142 | 428 | 256 | 419 | 429 | 374 | 235 | 383 | ---- | 137 | 128 | ---- | 287 | (375) |
| Feb. 28 | 368 | 329 | 269 | 198 | ---- | 465 | 420 | 447 | 262 | 222 | 207 | 488 | (412) | 333 | 35 | 267 | 147 | 420 | 44 | 137 | 64 | 66 | 61 | 18 | 298 | ---- | 259 | 415 | ---- | 73 | 374 |
| Mar. 1 | 428 | 281 | 396 | 431 | ---- | 370 | 451 | 468 | 292 | 168 | 362 | 410 | 202 | 275 | 392 | 352 | 425 | 269 | 156 | 420 | 40 | 114 | 110 | 124 | 330 | ---- | 329 | 394 | ---- | 383 | (373) |
| Mar. 2 | 583 | 433 | 388 | 196 | ---- | 363 | 397 | 413 | 194 | 176 | 399 | 415 | 121 | 516 | 452 | 321 | 352 | 282 | 457 | 156 | 450 | 458 | 405 | 265 | 246 | ---- | 69 | 92 | ---- | 262 | 365 |
| Mar. 3 | 633 | 545 | 380 | 334 | ---- | 477 | 443 | 385 | 108 | 80 | 273 | 250 | (75) | 456 | 364 | 390 | 358 | 157 | 465 | 392 | 413 | 429 | 352 | 158 | 317 | ---- | 224 | 76 | ---- | 407 | 302 |
| Mar. 4 | 489 | 423 | 429 | 346 | ---- | 271 | 440 | 445 | 400 | 274 | 378 | 431 | 543 | 515 | 310 | 410 | 189 | 397 | 465 | 194 | 443 | 457 | 339 | 133 | 373 | ---- | 118 | 339 | ---- | 54 | 274 |
| Means | 499 | 419 | 316 | 257 | ---- | 354 | 361 | 378 | 217 | 209 | 316 | 359 | 309 | 449 | 328 | 324 | 326 | 259 | 323 | 265 | 277 | 288 | 248 | 143 | 335 | ---- | 204 | 246 | ---- | 263 | 345 |
| Departures | −35 | −37 | −55 | −85 | ---- | ---- | ---- | +106 | −134 | −96 | +37 | +81 | +5 | +26 | +74 | +28 | +92 | −42 | +46 | +49 | +23 | +7 | +33 | −66 | +46 | ---- | −11 | −23 | ---- | +65 | +51 |
| Mar. 5 | 598 | 542 | 422 | 408 | ---- | 528 | 429 | 441 | 445 | 224 | 310 | 448 | 332 | 344 | 302 | 208 | 278 | 399 | 283 | 286 | 261 | 351 | 285 | 144 | 169 | 297 | 166 | 280 | ---- | 116 | 154 |
| Mar. 6 | 623 | 566 | 381 | 391 | ---- | 443 | 126 | 335 | 362 | 372 | 222 | 214 | 494 | 380 | 234 | 358 | 102 | 219 | 279 | 336 | 268 | 206 | 185 | 54 | 330 | 160 | 241 | 396 | ---- | 221 | 96 |
| Mar. 7 | 506 | 459 | 432 | 326 | ---- | 496 | 494 | 479 | 214 | 379 | 494 | 361 | 240 | 429 | 462 | 183 | 502 | 219 | 249 | 481 | 199 | 176 | 162 | 313 | 239 | 394 | 396 | 380 | ---- | 374 | 58 |
| Mar. 8 | 594 | 584 | 485 | 512 | ---- | 539 | 349 | 231 | 447 | 388 | 473 | 58 | 484 | 319 | 476 | 194 | 358 | 49 | 110 | 370 | 77 | 228 | 230 | 249 | 324 | 448 | 113 | 122 | ---- | 175 | 282 |
| Mar. 9 | 646 | 599 | 455 | 482 | ---- | 456 | 54 | 53 | 132 | 93 | 264 | 21 | 153 | 413 | 404 | 326 | 204 | 358 | 467 | 47 | 191 | 430 | 456 | 153 | 268 | 490 | 55 | 338 | ---- | 27 | 444 |
| Mar. 10 | 659 | 600 | 485 | 504 | ---- | 568 | 37 | 59 | 122 | 123 | 76 | 456 | 139 | 237 | 73 | 345 | 51 | 220 | 80 | 72 | 77 | 89 | 92 | 45 | 324 | 96 | 204 | 421 | ---- | 32 | 467 |
| Mar. 11 | 552 | 295 | 451 | 475 | ---- | 293 | 503 | 466 | 266 | 102 | 393 | 288 | 150 | 423 | 97 | 308 | 242 | 195 | 41 | 444 | 113 | 36 | 48 | 51 | 173 | 161 | 279 | 394 | ---- | 229 | 470 |
| Means | 597 | 521 | 444 | 442 | ---- | 475 | 285 | 301 | 284 | 240 | 319 | 264 | 284 | 363 | 293 | 274 | 252 | 237 | 216 | 291 | 170 | 221 | 208 | 143 | 261 | 292 | 207 | 333 | ---- | 168 | 281 |
| Departures | +33 | +23 | +21 | +18 | ---- | ---- | ---- | +17 | −112 | −106 | +7 | −37 | −38 | −31 | +19 | −38 | −22 | −84 | −79 | +6 | −94 | −65 | −38 | −97 | −80 | ---- | −43 | +34 | ---- | −84 | −9 |
| Mar. 12 | 393 | 348 | 484 | 428 | ---- | 547 | 488 | 326 | 504 | 318 | 386 | 198 | 390 | 258 | ---- | 277 | 242 | 357 | 345 | 537 | 276 | 369 | 319 | 121 | 302 | 320 | 315 | 477 | ---- | 371 | 235 |
| Mar. 13 | 650 | 615 | 429 | 398 | ---- | 480 | 147 | 194 | 446 | 425 | 508 | 509 | 457 | 374 | ---- | 445 | 485 | 59 | 343 | 491 | 345 | 407 | 423 | 276 | 423 | 368 | 404 | 352 | ---- | 447 | 165 |
| Mar. 14 | 629 | 553 | 463 | 442 | ---- | 499 | 207 | 311 | 514 | 244 | 463 | 199 | 358 | 274 | 411 | 421 | 375 | 196 | 518 | 236 | 493 | 526 | 484 | 249 | 373 | 518 | 270 | 338 | ---- | 148 | 446 |
| Mar. 15 | 492 | 474 | 309 | 345 | ---- | 427 | 219 | 427 | 262 | 148 | 154 | 561 | 457 | 505 | 221 | 416 | 324 | 433 | 333 | 471 | 261 | 385 | 329 | 184 | 250 | 343 | 233 | 489 | ---- | 415 | 123 |
| Mar. 16 | 518 | 530 | 484 | 440 | ---- | 574 | 549 | 497 | 556 | 388 | 490 | 107 | 194 | 518 | 508 | 193 | 329 | 303 | 540 | 232 | 517 | 552 | 516 | 156 | 263 | 516 | 215 | 225 | ---- | 260 | 168 |
| Mar. 17 | 602 | 695 | 475 | 501 | ---- | 566 | 60 | 32 | 477 | 368 | 260 | 48 | 519 | 452 | 483 | 472 | 448 | 297 | 501 | 514 | 473 | 532 | 481 | 293 | 343 | 392 | 436 | 479 | ---- | 439 | 410 |
| Mar. 18 | 648 | 604 | 306 | 492 | ---- | 582 | 213 | 237 | 545 | 356 | 103 | 577 | 494 | 472 | 71 | 422 | 219 | 510 | 41 | 460 | 42 | 49 | 12 | 165 | 382 | 94 | 229 | 394 | ---- | 463 | 224 |
| Means | 562 | 533 | 422 | 435 | ---- | 525 | 269 | 289 | 472 | 320 | 338 | 314 | 410 | 407 | 345 | 378 | 346 | 397 | 374 | 420 | 344 | 403 | 366 | 206 | 334 | 364 | 300 | 393 | ---- | 368 | 253 |
| Departures | −31 | −10 | +30 | +39 | ---- | ---- | ---- | +3 | +64 | −40 | +17 | −13 | +42 | +5 | +62 | +48 | +74 | −31 | +56 | +116 | +42 | +92 | +63 | −26 | 00 | ---- | +49 | +78 | ---- | +79 | −26 |
| Mar. 19 | 565 | 480 | 369 | 299 | ---- | 536 | 524 | 457 | 73 | 256 | 460 | 268 | 195 | 520 | 568 | 461 | 525 | 457 | 589 | 496 | 568 | 605 | 535 | 216 | 232 | ---- | 272 | 430 | ---- | 467 | 235 |
| Mar. 20 | 682 | 642 | 494 | 510 | ---- | 598 | 515 | 533 | 536 | 518 | 451 | 500 | 562 | 294 | 496 | 188 | 542 | 381 | 583 | 464 | 580 | 598 | 522 | 295 | 488 | 508 | 282 | 347 | ---- | 374 | 158 |
| Mar. 21 | 683 | 562 | 522 | 501 | ---- | 541 | 450 | 379 | 333 | 465 | 452 | 81 | 313 | 502 | 422 | 506 | 407 | 26 | 460 | 459 | 422 | 434 | 354 | 213 | 302 | 430 | 298 | 243 | ---- | 277 | 233 |
| Mar. 22 | 569 | 511 | 428 | 347 | ---- | 601 | 139 | 236 | 256 | 231 | 256 | 78 | 237 | 388 | 331 | 176 | 194 | 318 | 341 | 193 | 389 | 352 | 312 | 142 | 124 | 371 | 119 | 81 | ---- | 56 | (500) |
| Mar. 23 | 671 | 636 | 457 | 376 | ---- | 628 | 309 | 408 | 483 | 355 | 374 | 415 | 267 | 502 | 206 | 163 | 96 | 286 | 192 | 176 | 99 | 82 | 68 | 80 | 165 | 152 | 111 | 339 | ---- | 171 | (520) |
| Mar. 24 | 705 | 642 | 295 | 260 | ---- | 420 | 424 | 465 | 509 | 566 | 436 | 440 | (448) | 314 | 486 | 193 | 518 | 451 | 526 | 464 | 511 | 537 | 471 | 239 | 233 | 482 | 289 | 407 | 427 | 250 | 440 |
| Mar. 25 | 681 | 630 | 548 | 532 | ---- | 619 | 248 | 346 | 543 | 476 | 78 | 366 | 562 | 488 | 124 | 392 | 115 | 486 | 388 | 397 | 428 | 395 | 349 | 57 | 340 | 277 | 439 | 310 | 384 | 160 | 218 |
| Means | 651 | 586 | 445 | 404 | ---- | 563 | 372 | 403 | 398 | 410 | 358 | 307 | 369 | 430 | 376 | 288 | 342 | 344 | 427 | 375 | 427 | 429 | 373 | 177 | 269 | ---- | 259 | 308 | ---- | 251 | 329 |
| Departures | +28 | +14 | +3 | +8 | ---- | ---- | ---- | +72 | −49 | +17 | +17 | −19 | −40 | 00 | +44 | −42 | +28 | −37 | +29 | +44 | +82 | +55 | +56 | −102 | −121 | ---- | −36 | −25 | ---- | −27 | +8 |
| Mar. 26 | 698 | 592 | 466 | 507 | ---- | 596 | 373 | 315 | 602 | 583 | 97 | 132 | 398 | 458 | 244 | 416 | 161 | 48 | 349 | 116 | 301 | 373 | 303 | 142 | 396 | 332 | 61 | 67 | 291 | 207 | 163 |
| Mar. 27 | 622 | 631 | 533 | 546 | ---- | 618 | 77 | 114 | 534 | 439 | 336 | 370 | 202 | 395 | 261 | 111 | 188 | 545 | 187 | 314 | 242 | 177 | 107 | ---- | 288 | 254 | 190 | 107 | 69 | 120 | 276 |
| Mar. 28 | 650 | 530 | 348 | 257 | ---- | 288 | 300 | 498 | 508 | 610 | 203 | 598 | (584) | 241 | (492) | 397 | 359 | 422 | 459 | 539 | 482 | 458 | 427 | 216 | 474 | 228 | 488 | 501 | 334 | 415 | 422 |
| Mar. 29 | 685 | 622 | 469 | 584 | ---- | 605 | 597 | 597 | 640 | 615 | 552 | 573 | 668 | 585 | (523) | 380 | 524 | 54 | 562 | 544 | 547 | 568 | 495 | 305 | 546 | 533 | 418 | 309 | 460 | 168 | 503 |
| Mar. 30 | 648 | 647 | 420 | 501 | ---- | 590 | 153 | 185 | 423 | 620 | 534 | 257 | 284 | 350 | 390 | 411 | 380 | 131 | 514 | 234 | 426 | 254 | 242 | 87 | 480 | 232 | 259 | 118 | 387 | 161 | 171 |
| Mar. 31 | 444 | 461 | 470 | 254 | ---- | 405 | 406 | 617 | 625 | 629 | 99 | ---- | 649 | 612 | 62 | 452 | 78 | 109 | 83 | 88 | 123 | 175 | 202 | 20 | 483 | 162 | 41 | 39 | 399 | 81 | 509 |
| Apr. 1 | 650 | 586 | 468 | 350 | ---- | 652 | 482 | 214 | 636 | 571 | 122 | ---- | 639 | 525 | 111 | 398 | 94 | 456 | 376 | 466 | 357 | 415 | 413 | 195 | 508 | 435 | 353 | 550 | 447 | 425 | 558 |
| Means | 628 | 581 | 453 | 424 | ---- | 536 | 341 | 363 | 566 | 581 | 277 | 386 | 488 | 452 | 298 | 366 | 255 | 252 | 361 | 329 | 354 | 346 | 313 | 161 | 454 | 311 | 259 | 242 | 341 | 240 | 372 |
| Departures | +36 | +23 | −19 | +9 | ---- | ---- | ---- | +6 | +89 | +95 | −80 | −6 | +68 | −18 | −33 | +7 | −108 | −128 | −38 | −19 | −27 | −46 | −53 | −126 | +78 | ---- | −50 | −114 | ---- | −40 | +21 |

ACCUMULATED DEPARTURES ON APRIL 1, 1949

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | +273 | +63 | −2142 | −1057 | ---- | ---- | ---- | +952 | +2912 | −70 | −1589 | −1309 | +287 | ---- | +1260 | −231 | +427 | −3227 | −952 | +497 | −1463 | −644 | −420 | −6223 | +742 | ---- | −2681 | −413 | ---- | −217 | +161 |

TABLE 3.—*Daily totals and weekly means of solar and sky radiation plus the radiation reflected from the ground, as received on a vertical surface facing south at Blue Hill, Mass., during March 1949*

| Date | 26 | 27 | 28 | 1 | 2 | 3 | 4 | Mean | 5 | 6 | 7 | 8 | 9 | 10 | 11 | Mean | 12 | 13 | 14 | 15 | 16 | 17 | 18 | Mean |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gm cal/cm² | 28 | 528 | 22 | 63 | 550 | 478 | 516 | 312 | 311 | 160 | 131 | 148 | 488 | 42 | 14 | 185 | 314 | 367 | 503 | 318 | 495 | 468 | 28 | 356 |
| Date | 19 | 20 | 21 | 22 | 23 | 24 | 25 | Mean | 26 | 27 | 28 | 29 | 30 | 31 | 1 | Mean | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Gm cal/cm² | 581 | 559 | 364 | 240 | 32 | 436 | 282 | 356 | 251 | 92 | 332 | 419 | 144 | 88 | 262 | 227 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |

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