



Fisheries and Environment Canada

Pêches et Environnement Canada

Atmospheric Environment

Environnement atmosphérique

MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS

SEPTEMBER / SEPTEMBRE

19 81

AT/A

WINNIPEG INT'L AIRPORT / A L'AEROPORT INTERN. WPG.

| LAT: 49° 54'N | | | LONG: 97° 14'W | | | ELEVATION: 239.6 METRES (ASL) ALTITUDE: 239.6 MÈTRES (NNM) | | | STANDARD TIME USED: CENTRAL HEURE NORMALE UTILISÉE: | | | | | | | | | | |
|---|-----------------------------|-----------------------------------|-------------------|--|--|---|---------------------|---------------------------|--|---|---------------------------------------|--------------------------------|--|--|--|---|----------------------------|--|--|
| DATE | TEMPERATURE TEMPÉRATURE | | | DEGREE-DAYS DEGRÉS-JOURS | | REL. HUMIDITY HUMIDITÉ REL. | | THUNDERSTORM ORAGE | PRECIPITATION PRÉCIPITATIONS | | | SNOW ON GROUND NEIGE AU SOL | WIND VENT | | | BRIGHT SUNSHINE INSOLATION EFFECTIVE HEURES | | | |
| | MAXIMUM MAXIMALE | MINIMUM MINIMALE | MEAN MOYENNE | HEATING DE CHAUFFE BASE 18.0°C | GROWING DE CROISSANCE BASE 5.0°C | MAXIMUM MAXIMALE | MINIMUM MINIMALE | | RAINFALL PLUIE (HAUTEUR) mm | SNOWFALL NEIGE (HAUTEUR) cm | TOTAL PRECIP. PRÉCIP. TOTALE mm | | AVERAGE SPEED VITESSE MOYENNE km/h | PREVAILING DIRECTION DIRECTION DOMINANTE | MAXIMUM SPEED AND DIRECTION VITESSE MAXIMALE ET DIRECTION km/h | | | | |
| | °C | °C | °C | | | % | % | | | | cm | | | | | | | | |
| 1 | 18.7 | 3.8 | 11.3 | 6.7 | 6.3 | 97 | 51 | | | | | | 9.0 | SSE | NW 17* | 10.3 | | | |
| 2 | 24.5 | 10.2 | 17.4 | 0.6 | 12.4 | 75 | 34 | | | | | | 27.8 | S | S 41 | 8.2 | | | |
| 3 | 16.6 | 3.8 | 10.2 | 7.8 | 5.2 | 80 | 35 | | | | | | 20.3 | NNW | NNW31 | 10.4 | | | |
| 4 | 19.7 | 3.8 | 11.8 | 6.2 | 6.8 | 80 | 35 | | | | | | 18.1 | SE | SE 31 | 10.3 | | | |
| 5 | 22.9 | 12.2 | 17.6 | 0.4 | 12.6 | 94 | 57 | 1 | 13.6 | 13.6 | | | 25.0 | SSE | S 37 | 0.7 | | | |
| 6 | 18.0 | 10.8 | 14.4 | 3.6 | 9.4 | 98 | 85 | 1 | 23.0 | 23.0 | | | 15.5 | N | N 22* | 0.0 | | | |
| 7 | 21.5 | 9.0 | 15.3 | 2.7 | 10.3 | 100 | 46 | | | | | | 18.3 | NW | NNW39 | 11.9 | | | |
| 8 | 23.8 | 9.0 | 16.4 | 1.6 | 11.4 | 98 | 47 | | | | | | 7.8 | S, Calm | S 20 | 11.0 | | | |
| 9 | 27.2 | 13.0 | 20.1 | 0.0 | 15.1 | 96 | 41 | | | | | | 14.2 | NW | WNW26 | 11.7 | | | |
| 10 | 29.5 | 10.8 | 20.2 | 0.0 | 15.2 | 100 | 38 | 1 | Tr. | Tr. | | | 15.3 | S | S 31* | 9.7 | | | |
| 11 | 24.6 | 12.3 | 18.5 | 0.0 | 13.5 | 89 | 30 | | | | | | 17.7 | WNW | NW 33 | 11.0 | | | |
| 12 | 25.4 | 10.2 | 17.8 | 0.2 | 12.8 | 82 | 31 | | | | | | 15.5 | SW | SW 24* | 11.2 | | | |
| 13 | 21.7 | 8.1 | 14.9 | 3.1 | 9.9 | 88 | 28 | | | | | | 14.8 | N, NNW | NNW33 | 11.2 | | | |
| 14 | 18.9 | 6.9 | 12.9 | 5.1 | 7.9 | 90 | 42 | | 2.0 | 2.0 | | | 16.9 | NNW | N 35 | 8.3 | | | |
| 15 | 13.4 | 4.5 | 9.0 | 9.0 | 4.0 | 97 | 57 | | 0.2 | 0.2 | | | 18.2 | N | NNW35 | 6.1 | | | |
| 16 | 12.5 | 6.8 | 9.7 | 8.3 | 4.7 | 95 | 57 | | | | | | 7.8 | N | NNW13* | 2.0 | | | |
| 17 | 19.2 | 3.6 | 11.4 | 6.6 | 6.4 | 94 | 32 | | | | | | 12.7 | SSW | WSW19 | 10.2 | | | |
| 18 | 24.5 | 7.8 | 16.2 | 1.8 | 11.2 | 75 | 30 | | | | | | 19.5 | SW | NE 31 | 10.7 | | | |
| 19 | 18.9 | 4.1 | 11.5 | 6.5 | 6.5 | 91 | 39 | | | | | | 12.3 | ENE | N 24* | 10.2 | | | |
| 20 | 18.4 | 4.1 | 11.3 | 6.7 | 6.3 | 91 | 37 | | 0.4 | 0.4 | | | 16.3 | ESE, SE | ESE20* | 9.3 | | | |
| 21 | 15.9 | 8.9 | 12.4 | 5.6 | 7.4 | 95 | 57 | | 0.6 | 0.6 | | | 18.4 | SE | ESE22* | 1.3 | | | |
| 22 | 16.0 | 7.8 | 11.9 | 6.1 | 6.9 | 90 | 56 | | Tr. | Tr. | | | 23.4 | S | S 41 | 3.1 | | | |
| 23 | 15.2 | 7.2 | 11.2 | 6.8 | 6.2 | 100 | 72 | | Tr. | Tr. | | | 19.4 | S | S 30 | 3.8 | | | |
| 24 | 18.9 | 1.9 | 10.4 | 7.6 | 5.4 | 100 | 42 | | | | | | 5.5 | S | SSE13* | 8.9 | | | |
| 25 | 10.0 | 5.8 | 12.9 | 5.1 | 7.9 | 97 | 40 | 1 | 4.0 | 4.0 | | | 17.5 | SE | ESE31 | 4.6 | | | |
| 26 | 15.8 | 3.3 | 9.6 | 8.4 | 4.6 | 94 | 70 | | 14.2 | 14.2 | | | 30.6 | WNW | WNW56* | 0.0 | | | |
| 27 | 8.9 | -1.5 | 3.7 | 14.3 | 0.0 | 94 | 52 | | 1.2 | 1.2 | | | 36.0 | NW, NNW | NW 63 | 7.2 | | | |
| 28 | 2.9 | -2.7 | 0.1 | 17.9 | 0.0 | 93 | 72 | | Tr. | 0.4 | | | 10.6 | E | E 28 | 0.0 | | | |
| 29 | 13.0 | 2.0 | 7.5 | 10.5 | 2.5 | 87 | 49 | | | | | | 17.3 | E | SE 24 | 7.3 | | | |
| 30 | 7.1 | 1.4 | 4.3 | 13.7 | 0.0 | 93 | 62 | | 12.9 | 12.9 | | | 18.5 | E | NE 30 | 0.0 | | | |
| 31 | | | | | | | | | | | | | | | | | | | |
| MEAN MOYENNE | 18.5 | 6.3 | 12.4 | TOTAL 172.9 | TOTAL 228.8 | 92 | 47 | TOTAL 4 | TOTAL 72.1 | TOTAL 0.4 | TOTAL 72.5 | | 17.3 | PREVAILING DOMINANTE S | MAXIMUM NW 63 | TOTAL 210.6 | | | |
| NORMAL NORMALE | 18.4 | 6.6 | 12.6 | 174.8 | 229.8 | 91* | 49* | 2.2 | 52.6 | 0.3 | 52.6 | | 18.8 | S | 55 | 182.6 | | | |
| DEGREE-DAY SUMMARY - SOMMAIRE DE DEGRÉS-JOURS | | | | | | | | | | DAYS WITH TOTAL PRECIPITATION: JOURS AVEC PRÉCIPITATIONS TOTALES: mm | | | | | DAYS WITH SNOWFALL: JOURS AVEC CHÛTE DE NEIGE: cm | | | | |
| BELOW 18°C AU-DESSOUS DE 18°C | THIS YEAR ANNÉE EN COURS | PREVIOUS YEAR ANNÉE PRÉCÉDENTE | NORMAL NORMALE | ABOVE 5°C AU-DESSUS DE 5°C | THIS YEAR ANNÉE EN COURS | PREVIOUS YEAR ANNÉE PRÉCÉDENTE | NORMAL NORMALE | 0.2 OR MORE OU PLUS | 1.0 OR MORE OU PLUS | 2.0 OR MORE OU PLUS | 10.0 OR MORE OU PLUS | 50.0 OR MORE OU PLUS | 0.2 OR MORE OU PLUS | 1.0 OR MORE OU PLUS | 2.0 OR MORE OU PLUS | 10.0 OR MORE OU PLUS | 50.0 OR MORE OU PLUS | | |
| TOTAL FOR MONTH TOTAL DU MOIS | 172.9 | 210.2 | 174.8 | TOTAL FOR MONTH TOTAL DU MOIS | 228.8 | 194.6 | 229.8 | 11 | 7 | 6 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | | |
| ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 ^{ER} JUILLET | 199.8 | 267.7 | 233.2 | ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 ^{ER} AVRIL | 1736.0 | 1867.8 | 1692.2 | | | | | | | | | | | | |

CLIMATOLOGICAL SUMMARY FOR SEPTEMBER 1981

AT WINNIPEG, MANITOBA

September temperatures were near normal with a mean of 12.4 compared to normal 12.6. The high 29.5 C occurred on 10th and the low -2.7 on 28th. On 28th the maximum temperature failed to rise above 2.9 breaking the low maximum record for that day. Precipitation was 72.5 mm compared to normal 52.6. There was 0.4 cm of snow. Strong winds on 26 and 27th caused some damage. Frost free period was 136 days from May 13 to Sept. 27. It was sunnier than usual with 210.6 hours compared to normal 182.6 hours.

DAILY WEATHER SUMMARY FOR SEPTEMBER 1981

AT WINNIPEG, MANITOBA

All Times Central Standard
Not Daylight

1. Cool. Mostly sunny. Light winds.
2. Above normal temperatures. Partly cloudy. Moderate S winds with SSE gusts to 61 Km/h in afternoon.
3. Cool. Mostly sunny. Moderate winds with NW gusts to 59 Km/h in morning.
4. Cool. Mostly sunny. Moderate winds with SE gusts to 46 Km/h in evening.
5. Above normal temperatures. Cloudy. Thunder 7:56 p.m. continued. Showers sometimes heavy 6:25 p.m. continued. Very heavy rain at Arnes, Manitoba. Moderate winds gusting to S 65 Km/h in morning.
6. Normal temperatures. Cloudy. Thunder to 00:58 a.m. Showers to 9:04 a.m. Drizzle 9:35 a.m. to 1:00 p.m. Rain 10:13 a.m. to 6:45 p.m. Light fog late morning to mid afternoon. Visibility reduced. Mostly light winds but S gusts to 48 Km/h in morning. Severe rain at Whiteshell. Brereton Lake reported 125 to 155 mm in a few hours. Games washed out near Pilot Mound. Power outages. House in St. James hit by lightning.
7. Above normal temperatures. Mostly sunny. Heavy fog 5:13 a.m. to 5:34 a.m. Light fog till 6 a.m. Mostly light winds but NNW gusts to 48 Km/h in afternoon.
8. Above normal temperatures. Mostly sunny. Light winds.
9. Warm. Mostly sunny. Mostly light winds but NW gusts to 35 Km/h in afternoon. Smoke aloft in evening.
10. Warm. Mostly sunny. Thunder 8:00 p.m. to 8:15 p.m. Showers 7:24 p.m. to 9:11 p.m. Mostly light winds but NW gusts to 54 Km/h in evening. Fog and smoke in morning. Visibility restricted.
11. Above normal temperatures. Mostly sunny. Mostly light winds but NNW gusts to 56 Km/h in afternoon. Smoke aloft.
12. Above normal temperatures. Mostly sunny. Mostly light winds but SSW gusts to 39 Km/h in the morning. Smoke aloft.
13. Above normal temperatures. Mostly sunny. Mostly light winds but NNW gusts to 46 Km/h in afternoon. Smoke aloft.
14. Normal temperatures. Partly cloudy. Showers 3:20 p.m. to 6:05 p.m. Smoke in morning. Visibility restricted. Mostly light winds but N gusts to 63 Km/h in afternoon. Smoke aloft.
15. Cool. Partly cloudy. Showers 12:13 p.m. to 2:33 p.m. Mostly light winds but NNE gusts to 54 Km/h in afternoon.
16. Cool. Cloudy. Light winds.
17. Mostly sunny. Near normal temperatures. Light winds. Smoke aloft.
18. Above normal temperatures. Sunny. Mostly light winds but WSW gusts to 41 Km/h in morning. Smoke in afternoon. Smoke aloft in the morning.
19. Near normal temperatures. Sunny. Mostly light winds but NNE gusts to 33 Km/h late morning.
20. Near normal temperatures. Sunny becoming cloudy late afternoon. Showers 8:50 p.m. to 10:40 p.m. Rain 10:40 p.m. continued. Mostly light winds but SSE gusts to 35 Km/h in late evening.
21. Above normal temperatures. Mostly cloudy. Rain to 6:55 a.m., drizzle 4:28 a.m. to 7:15 a.m. Mostly light winds but SE gusts to 35 Km/h in evening.
22. Above normal temperatures. Mostly cloudy. Rain 1:10 p.m. to 1:15 p.m. Moderate S winds gusting to 56 Km/h in afternoon.
23. Near normal temperatures. Mostly cloudy. Rain 9:28 a.m. to 11:04 a.m. Mostly light winds but S gusts to 46 Km/h in morning.
24. Near normal temperatures. Partly cloudy. Heavy fog 01:16 a.m. to 1:25 a.m. Light fog till about 2:30 a.m. Light winds.
25. Above normal temperatures. Partly cloudy. Thunder 7:59 p.m. to 9:12 p.m. Showers 1:25 p.m. to 1:42 p.m., 8:54 p.m. continued. Mostly light winds but SE gusts to 57 Km/h in late afternoon.
26. Near normal temperatures. Cloudy. Showers to 3:28 a.m. Drizzle or rain 12:10 p.m. to 1:23 p.m. Showers 1:23 p.m. to 9:00 p.m. Drizzle 10:00 p.m. to 11:35 p.m. Rain 9:00 p.m., continued. Moderate winds gusting to NW 96 Km/h in the late evening.
27. Cool. Partly cloudy. Light rain or showers to 7:13 a.m. Moderate winds gusting to NW 87 Km/h early morning, forced Lord Selkirk to cancel cruise. Several boating accidents. Trees blown down.
28. Cold. Record low afternoon temperatures. Cloudy. Snow or snow pellets 12:03 p.m. to 12:40 p.m., 1:12 p.m. to 3:49 p.m. Rain 12:12 p.m. to 1:53 p.m., 3:39 p.m. to 4:12 p.m. Mostly light winds but E gusts to 35 Km/h in afternoon. Light fog in afternoon. Visibility restricted.
29. Below normal temperatures. Partly cloudy. Mostly light winds but SE gusts to 35 Km/h in the morning.
30. Below normal temperatures. Cloudy. Showers 00:25 a.m. to 4:55 a.m. Rain 7:54 a.m., continued. Mostly light winds but NE gusts to 39 Km/h in evening. Light fog in afternoon. Visibility restricted.

HOURLY WETBULB TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF SEPTEMBER 1981

LOCAL STANDARD TIME

ALL TEMPERATURES IN DEGREES CELSIUS

| DATE | 00. | 01. | 02. | 03. | 04. | 05. | 06. | 07. | 08. | 09. | 10. | 11. | 12. | 13. | 14. | 15. | 16. | 17. | 18. | 19. | 20. | 21. | 22. | 23. |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1. | 7.6 | 7.2 | 6.6 | 6.2 | 5.1 | 4.8 | 4.0 | 6.5 | 8.7 | 7.8 | 9.5 | 10.6 | 10.7 | 12.7 | 12.3 | 12.7 | 12.6 | 12.1 | 11.8 | 11.4 | 11.4 | 10.5 | 10.4 | 10.9 |
| 2. | 10.4 | 10.1 | 9.4 | 8.9 | 8.5 | 8.3 | 8.1 | 9.0 | 10.6 | 11.5 | 12.5 | 13.7 | 15.0 | 14.7 | 14.2 | 14.8 | 15.7 | 16.0 | 15.8 | 16.3 | 15.7 | 14.8 | 11.7 | 10.5 |
| 3. | 10.0 | 10.0 | 9.5 | 8.6 | 8.4 | 7.9 | 7.6 | 7.4 | 8.0 | 8.1 | 8.9 | 8.1 | 8.5 | 8.8 | 8.5 | 8.9 | 8.5 | 9.0 | 8.3 | 7.0 | 5.3 | 4.5 | 3.7 | 2.5 |
| 4. | 3.3 | 3.5 | 3.5 | 3.5 | 3.5 | 4.0 | 3.0 | 5.0 | 6.1 | 8.0 | 8.4 | 8.9 | 9.9 | 10.9 | 10.9 | 10.7 | 10.7 | 11.0 | 11.1 | 8.9 | 8.7 | 8.9 | 8.3 | 8.9 |
| 5. | 8.8 | 8.4 | 8.9 | 9.0 | 9.0 | 9.2 | 10.1 | 10.5 | 11.6 | 12.9 | 13.2 | 14.0 | 14.9 | 15.2 | 16.0 | 16.7 | 17.6 | 17.5 | 17.9 | 17.4 | 16.3 | 16.2 | 15.4 | 15.2 |
| 6. | 15.6 | 16.5 | 15.8 | 15.8 | 15.7 | 15.5 | 15.9 | 15.8 | 15.8 | 15.8 | 16.0 | 16.8 | 17.2 | 17.0 | 17.0 | 16.9 | 15.9 | 14.4 | 13.8 | 13.8 | 13.7 | 12.8 | 12.3 | 10.6 |
| 7. | 10.0 | 9.7 | 9.4 | 9.2 | 9.2 | 8.8 | 9.2 | 9.8 | 11.1 | 13.9 | 14.8 | 15.4 | 15.1 | 15.0 | 14.3 | 14.1 | 14.9 | 14.1 | 13.9 | 13.3 | 12.5 | 12.5 | 12.0 | 10.8 |
| 8. | 12.0 | 11.7 | 11.0 | 10.0 | 9.8 | 9.4 | 9.0 | 9.9 | 11.2 | 11.9 | 12.9 | 14.5 | 14.5 | 15.6 | 15.2 | 16.1 | 16.2 | 16.9 | 16.8 | 15.3 | 14.6 | 15.0 | 14.8 | 14.4 |
| 9. | 14.4 | 14.3 | 13.8 | 13.4 | 12.9 | 12.5 | 11.8 | 13.6 | 13.7 | 15.2 | 17.2 | 17.8 | 17.5 | 18.7 | 18.8 | 18.3 | 18.5 | 18.2 | 17.8 | 16.7 | 15.6 | 15.0 | 14.2 | 13.9 |
| 10 | 13.0 | 12.5 | 12.0 | 11.2 | 10.6 | 11.0 | 11.0 | 11.0 | 12.8 | 14.4 | 15.8 | 16.5 | 17.0 | 18.5 | 18.5 | 18.8 | 19.2 | 20.0 | 19.6 | 16.3 | 16.0 | 15.3 | 14.0 | 14.0 |
| 11 | 13.9 | 13.3 | 12.8 | 12.4 | 12.5 | 12.0 | 11.3 | 11.3 | 12.8 | 14.1 | 14.6 | 14.5 | 13.9 | 14.4 | 14.0 | 14.0 | 14.1 | 14.4 | 13.5 | 12.7 | 12.3 | 11.7 | 11.6 | 10.8 |
| 12 | 11.2 | 10.9 | 10.8 | 10.7 | 10.8 | 10.7 | 11.3 | 10.5 | 12.1 | 13.2 | 14.4 | 15.7 | 15.9 | 15.4 | 14.6 | 14.4 | 15.8 | 15.4 | 14.7 | 12.2 | 11.2 | 10.2 | 9.5 | 9.1 |
| 13 | 9.1 | 8.4 | 8.0 | 8.0 | 7.2 | 7.1 | 7.1 | 8.4 | 11.5 | 13.5 | 13.5 | 12.6 | 12.0 | 12.2 | 12.0 | 11.0 | 11.6 | 12.0 | 11.0 | 8.4 | 9.1 | 7.9 | 7.6 | 6.8 |
| 14 | 6.2 | 6.1 | 6.3 | 5.8 | 6.3 | 6.8 | 6.2 | 6.6 | 9.1 | 11.0 | 12.2 | 12.0 | 12.5 | 12.3 | 10.8 | 11.5 | 11.0 | 11.5 | 11.0 | 13.5 | 7.6 | 8.1 | 7.6 | 7.6 |
| 15 | 7.5 | 6.5 | 7.5 | 5.8 | 5.8 | 5.8 | 4.3 | 5.0 | 6.5 | 7.8 | 8.1 | 8.1 | 8.0 | 8.1 | 8.3 | 8.0 | 8.2 | 8.4 | 7.8 | 7.5 | 6.0 | 5.7 | 6.8 | 7.0 |
| 16 | 7.0 | 6.8 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.2 | 7.2 | 7.8 | 8.5 | 8.0 | 8.3 | 8.1 | 8.4 | 8.5 | 8.4 | 8.3 | 8.7 | 8.0 | 8.2 | 7.8 | 6.9 | 6.4 |
| 17 | 6.0 | 5.5 | 5.0 | 5.3 | 4.4 | 3.4 | 3.3 | 3.5 | 5.5 | 7.5 | 9.0 | 10.3 | 10.6 | 10.6 | 10.5 | 10.3 | 10.3 | 10.8 | 10.3 | 9.3 | 8.4 | 8.5 | 7.8 | 7.4 |
| 18 | 6.5 | 7.0 | 6.6 | 6.7 | 6.2 | 5.2 | 5.5 | 5.6 | 6.7 | 9.3 | 11.0 | 11.8 | 12.3 | 13.6 | 15.5 | 15.2 | 13.5 | 13.3 | 12.7 | 10.0 | 8.0 | 7.0 | 6.4 | 6.4 |
| 19 | 6.1 | 5.7 | 5.5 | 4.3 | 4.3 | 4.5 | 4.4 | 4.8 | 7.0 | 10.0 | 11.8 | 11.0 | 10.5 | 10.7 | 11.4 | 11.0 | 9.9 | 10.3 | 9.4 | 8.6 | 7.7 | 6.8 | 6.4 | 3.9 |
| 20 | 3.2 | 5.8 | 5.3 | 4.4 | 4.3 | 4.0 | 3.8 | 4.0 | 5.6 | 6.5 | 8.2 | 9.1 | 9.7 | 9.5 | 10.5 | 10.1 | 10.7 | 10.2 | 9.6 | 9.4 | 9.4 | 9.0 | 9.5 | 9.0 |
| 21 | 9.1 | 9.3 | 9.3 | 9.2 | 8.9 | 8.9 | 8.6 | 8.6 | 7.8 | 8.0 | 8.2 | 9.2 | 9.6 | 10.0 | 10.5 | 11.0 | 10.8 | 11.1 | 9.7 | 9.0 | 8.9 | 8.6 | 8.2 | 7.8 |
| 22 | 8.3 | 8.3 | 7.9 | 7.5 | 7.4 | 7.4 | 7.5 | 7.7 | 8.6 | 10.0 | 9.9 | 10.1 | 11.2 | 11.9 | 12.0 | 11.7 | 11.3 | 11.3 | 11.0 | 10.6 | 10.0 | 9.9 | 9.9 | 9.6 |
| 23 | 9.5 | 9.3 | 9.3 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 9.1 | 9.9 | 10.1 | 10.5 | 10.5 | 11.3 | 12.0 | 12.9 | 12.8 | 12.0 | 11.6 | 11.0 | 11.0 | 10.8 | 10.3 | 8.8 |
| 24 | 7.2 | 6.3 | 5.7 | 4.2 | 3.6 | 2.5 | 1.8 | 2.0 | 5.6 | 8.7 | 10.5 | 10.8 | 11.5 | 11.8 | 11.8 | 11.9 | 11.7 | 11.1 | 10.2 | 9.7 | 9.3 | 7.7 | 8.3 | 8.7 |
| 25 | 7.3 | 7.7 | 8.0 | 6.8 | 5.3 | 6.2 | 6.2 | 6.5 | 8.7 | 10.0 | 11.0 | 11.0 | 11.5 | 12.3 | 13.5 | 13.0 | 11.8 | 12.4 | 13.0 | 13.3 | 13.2 | 13.2 | 13.3 | 13.4 |
| 26 | 13.7 | 14.3 | 14.5 | 15.2 | 14.2 | 13.3 | 11.7 | 10.8 | 10.8 | 10.8 | 11.2 | 10.0 | 10.0 | 10.5 | 8.3 | 7.7 | 7.0 | 6.7 | 5.8 | 5.5 | 4.5 | 3.6 | 3.4 | 4.4 |
| 27 | 4.2 | 3.7 | 3.4 | 3.2 | 3.3 | 3.1 | 3.0 | 3.2 | 3.2 | 3.3 | 3.4 | 3.6 | 4.3 | 4.3 | 4.3 | 4.5 | 4.3 | 3.7 | 3.2 | 1.2 | 2.2 | -4 | -2.0 | -2.0 |
| 28 | -2.0 | -2.8 | -3.0 | -2.0 | -1.7 | -1.1 | -.2 | -.3 | -.4 | -.7 | -.5 | .8 | 1.0 | 1.0 | 1.0 | .9 | 1.5 | 1.6 | 1.4 | 1.4 | 1.4 | 1.4 | 1.9 | 1.5 |
| 29 | 1.6 | 1.9 | 1.9 | 1.5 | 1.6 | 1.3 | 1.4 | 1.1 | 2.0 | 3.6 | 5.0 | 5.8 | 6.8 | 7.7 | 7.1 | 7.2 | 7.5 | 7.0 | 6.5 | 6.1 | 5.8 | 5.4 | 4.7 | 4.1 |
| 30 | 4.0 | 4.0 | 3.9 | 3.9 | 3.8 | 3.7 | 3.4 | 3.5 | 4.0 | 4.2 | 4.5 | 5.1 | 4.9 | 4.4 | 4.9 | 4.2 | 4.0 | 3.4 | 3.0 | 2.5 | 2.2 | 1.4 | 1.3 | 1.3 |
| MEAN | 8.2 | 8.1 | 7.9 | 7.5 | 7.2 | 7.1 | 6.9 | 7.3 | 8.5 | 9.6 | 10.5 | 10.9 | 11.2 | 11.6 | 11.6 | 11.6 | 11.5 | 11.5 | 11.0 | 10.2 | 9.5 | 9.0 | 8.6 | 8.2 |

