

MAATALOUDEN TUTKIMUSKESKUS

# Karjalan koeasema

TIEDOTE N:o 1

Reijo Heikkilä ja Pekka Koivukangas

Sääolosuhteet ja viljely-  
varmuus Pohjois-Karjalassa

Tohmajärvi 1979

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## Johdanto

Karjalan koeasemalla on tehty säännöllisesti säähavaintoja vuodesta 1925 alkaen. Varsinkin sääolosuhteilta poikkeuksellisten vuosien jälkeen viljelijät, neuvonta ja tiedotusvälineet ovat erityisen kiinnostuneita, kuinka yleisiä vastaanlaiset ilmiöt ovat. Tällaisia poikkeuksellisia vuosia ovat olleet Pohjois-Karjalassa esim. kesät 1972 ja 1976, kesän 1972 ollessa harvinainen lämmin ja kesän 1976 kylmä. Kesä 1974 oli huomattavasti normaalista runsassateisempi.

Tässä tiedotteessa on lämpötila-, sade-, haihtumis-, lumi- ja routamittausten tuloksia, mitkä on mitattu pääasiassa koeasemalla sijaitsevalla Ilmatieteen laitoksen ilmasto- asemalla. Lisäksi on kiinnitetty huomiota hallojen yleisyyteen kasvukauden eri aikoina.

## Lämpötila

Lämpötilamittaukset on tehty kojuissa, joissa lämpömittari on 2 metrin korkeudella maanpinnasta. Taulukoissa 1, 2 ja 3 on esitetty keskilämpötilat kuukausittain. Taulukkoon 2 on laskettu kasvukauden kuukausittaisten lämpötilojen lisäksi tehoisan lämpötilan summat. Vuodesta 1966 lähtien lasketut tehoisat lämpötilasummat eivät ole täysin vertailukelpoisia aikaisempien vuosien vastaaviin summiin, koska vasta vuodesta 1966 lähtien tehoisan lämpötilan summa on laskettu vuorokautisten keskilämpötilojen pohjalta. Aikaisemmilta vuosilta saadut arvot on laskettu käyttäen hyväksi ainoastaan kasvukauden kuukausien keskilämpötilalukuja ja saatu täten epätarkempia tehoisan lämpötilan arvoja.

Kasvukauden keskimääräinen lämpötila koeasemalla on  $11.9^{\circ}\text{C}$  ja tehoisan lämpötilan summa  $1064^{\circ}\text{C}$ . Vuosittainen vaihtelu on ollut lämpötilan osalta  $10.4^{\circ} - 13.7^{\circ}$  ja tehoisa lämpötilasumma on vaihdellut  $837^{\circ}\text{C} - 1338^{\circ}\text{C}$ . Kasvukausi on kestänyt koeasemalla keskimäärin 155 vuorokautta alkaen 2.5. ja päättyen 4.10.

Termiset vuodenajat Tohmajärvellä ovat Kolkin mukaan seuraavat: kevät 12.4. - 27.5. (45 vrk), kesä 27.5. - 8.9. (104 vrk), syksy 8.9. - 3.11. (56 vrk) ja talvi 3.11. - 12.4. (160 vrk).

Talvikauden keskilämpötila koeasemalla on ollut (1931 - 1960)  $-4.7^{\circ}\text{C}$ . Talven keskilämpötilat kuukausittain on esitetty taulukossa 3.

Vuosina 1943 - 1952 lämpötilamittaukset tehtiin sekä koeasemalla että n. 3 kilometrin päässä, 75 m korkeammalla sijaitsevalla koeaseman omistamalla Harjulan tilalla. Taulukosta 16 ilmenevät näiden mittauspisteiden lämpötilaerot.

### Sadeelot

Etelä- ja Keski-Suomessa sataa vuodessa keskimäärin 550 - 650 mm. Karjalan koeasemalla vuotuinen sademäärä on keskimäärin n. 610 mm, vuosittaisen vaihtelujen ollessa 50 vuoden aikana 394 - 918 mm. Sateesta tulee kasvukauden aikana noin puolet. Touko - kesäkuu on huomattavasti kuivempi kuin heinä - syyskuu. Taulukossa 6 on esitetty keskilämpötilat ja sademäärät vuosina 1925 - 1976.

Pysyvä lumipeite tulee keskimäärin 10.11. ja lumi sulaa 25.4. eli lumipeitepäiviä on keskimäärin 157. Pysyvä lumipeite tulee tavallisesti routaan tumattomaan maahan. Routaanuminen alkaa keskimäärin noin viikkoa lumen-tulon jälkeen. Lunta on enimmillään 11.3. keskimäärin 67 cm. Roudan paksuus on keskimäärin n. 20 cm ja se sulaa hietapelloilta 2.5. ja mutamaalta 7.5.

### Haihtuminen

Haihtuminen altaasta kasvukauden aikana on huomattavasti suurempi (451 mm) kuin kasvukauden keskimääräinen sademäärä (310 mm). Ainoastaan syyskuun sademäärä on selvästi haihtumista suurempi (taulukko 11).

### Haljojen esiintyminen

Kun lämpötila laskee kasvukauden aikana niin alas, että kasvi tämän johdosta vaurioituu, puhutaan hallasta. Eri viljelykasveilla tämä lämpötila on erilainen. Myös mm, ilman kosteus ja kylmän jakson pituus vaikuttavat siihen, missä lämpötilassa kasvi vaurioituu. Luonnollisesti myös kasvin kehitysaste vaikuttaa vaurion syntyn. Viljat ja peruna vaurioituvat yleensä lämpötila laskee alle  $-3^{\circ}\text{C}$ .

Hallan syntytavan mukaan voidaan erottaa kolmenlaisia halloja: tuulihalla, laaksohalla ja säteilyhalla. Esiintymisajankohdan mukaan puhutaan keväthalloista, kesähalloista ja syyshalloista.

Maanpinnan korkeusero vaikuttaa ratkaisevasti hallojen yleisyyteen. Esim. Karjalan koeaseman Suotalon tilalla viimeinen kesähalla on keskimäärin kesäkuun puolessa välissä ja koeasemaa 75 m korkeammalla Harjulan tilalla toukokuun lopulla.

Taulukoissa 13 ja 14 on esitetty hallojen esiintyminen Karjalan koeaseman Suotalon tilan ilmastoasemalla vuosina 1925 - 1976.

Yleisimmin haittaa on syyshalloista, mutta myös keväthallat ovat vaurioittaneet muutamina vuosina pahoin varsinkin ohran oraita. Kesähalloista sensijaan haittaa on ollut harvemmin. Elokuun puolen välin jälkeen syyshalloja alkaa esiintyä jo melko yleisesti. Ankaria, pahasti viljoja ja perunaa vioittavia halloja elokuussa koeasemalla on esiintymyt 1 - 2 kertaa kymmenessä vuodessa.

#### Viljelyvarmuus

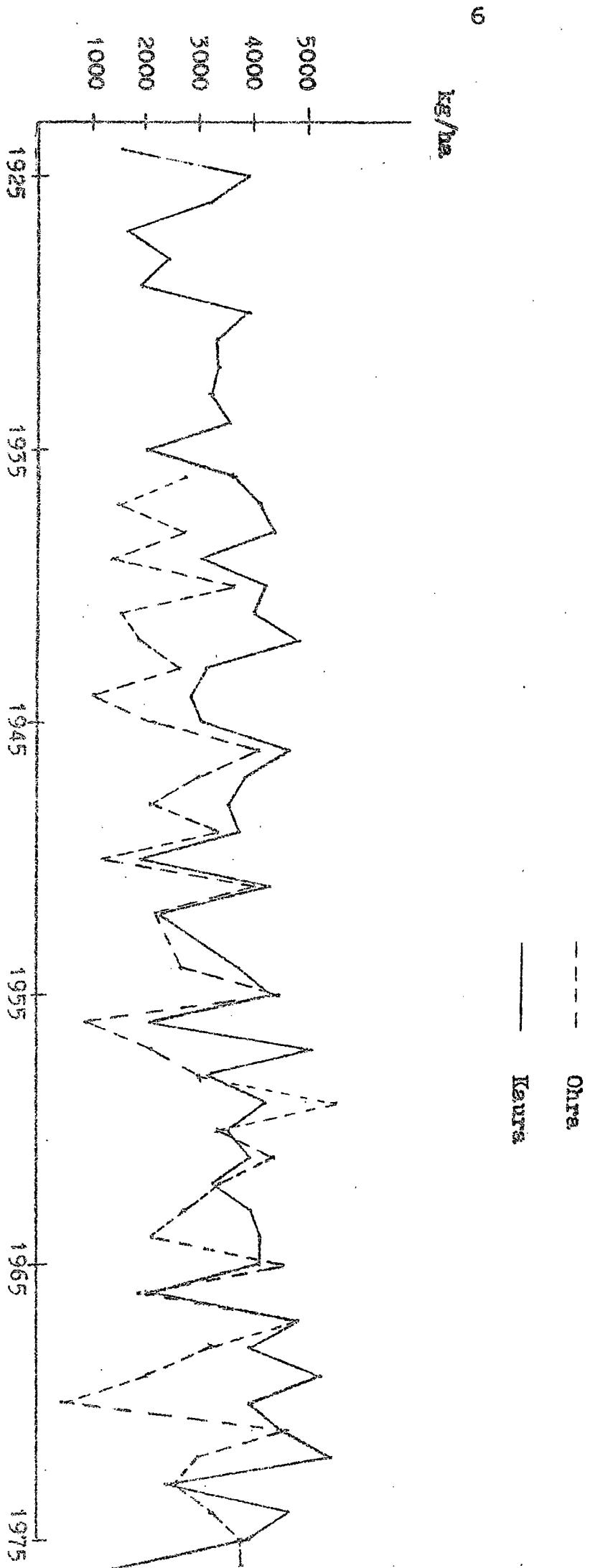
Mahdollisimman hyvän taloudelliisen tuloksen saamiseksi viljelijän kannattaa viljellä sellaisia viljelykasvilajeja ja lajikkeita, jotka soveltuvat mahdollisimman hyvin paikallisiin ilmasto-olosuhteisiin. Pohjois-Karjalassa viljellään etupäässä nurmia ja rehuviljaa. Nykyistä pareman viljelyvarmuuden saavuttamiseksi viljelyn painopistettä kannattaisi siirtää viljan viljelystä nurmen viljelyyn.

Kuran kasvuaika on noin 2 - 3 viikkoa ohran kasvuaikaa pittempi, mistä syystä kuran viljelyä ei suositella maakunnan pohjoisosien ja eteläosiinkin soveltuvat vain ai-kaisimmat lajikkeet.

Painopiste onkin siirtynyt viime vuosina selvästi kauran viljelystä ohran viljelyyn. Toisaalta kaura on ohraa selvästi vaativattonampi kasvi, joka viihtyy melko hyvin myös happamilla turvemilla ja sen oraat kestävät ohraa huomattavasti paremmin alueella yleisesti esiintyviä ~~kevät~~ halluja. Näistä syistä johtuen Karjalan koeaseman mutasoilta on saatu kaurasta keskimäärin ohraa selvästi parempi sato (kuva 1).

Oljan ja kauran satotulokset Karjalan kesäsaella vuosina 1924 - 1976

Kuva 1



## Taulukko 1

7

Lämpötila, °C

norm. arvot

| 1931-60 | -10.5 | -10.6 | -6.8  | 1.0  | 7.7  | 13.4 | 16.1 | 13.9 | 8.6  | 2.9  | -2.0 | -6.9  | 2.2   |
|---------|-------|-------|-------|------|------|------|------|------|------|------|------|-------|-------|
|         | I     | II    | III   | IV   | V    | VI   | VII  | VIII | IX   | X    | XI   | XII   | I-XII |
| 1925    | -2.2  | -4.1  | -6.3  | 3.5  | 9.2  | 12.6 | 19.6 | 14.2 | 8.5  | -0.7 | -6.8 | -10.8 | 3.2   |
| 1926    | -15.5 | -10.9 | -5.2  | -0.3 | 8.0  | 14.6 | 15.8 | 13.7 | 7.6  | 0.1  | -0.4 | -10.3 | 1.4   |
| 1927    | -14.3 | -10.4 | -3.7  | 0.9  | 5.8  | 13.0 | 17.7 | 16.3 | 7.9  | 0.3  | -5.5 | -11.6 | 1.4   |
| 1928    | -8.7  | -9.4  | -5.7  | 1.0  | 8.4  | 10.6 | 13.0 | 13.1 | 7.7  | 2.2  | -1.3 | -5.4  | 2.1   |
| 1929    | -14.3 | -18.8 | -7.0  | -4.5 | 9.0  | 12.5 | 15.0 | 13.6 | 7.9  | 4.9  | 1.4  | -0.8  | 1.6   |
| 1930    | -3.2  | -10.2 | -5.0  | 1.5  | 9.4  | 12.8 | 16.2 | 15.8 | 6.1  | 3.2  | -0.9 | -10.2 | 3.0   |
| 1931    | -11.6 | -12.0 | -6.9  | 1.1  | 10.0 | 10.7 | 17.2 | 14.6 | 6.1  | 2.4  | -1.3 | -7.2  | 1.9   |
| 1932    | -4.0  | -12.1 | -8.2  | 1.9  | 8.1  | 11.6 | 17.2 | 14.8 | 9.2  | 3.2  | -1.7 | -0.2  | 3.3   |
| 1933    | -10.0 | -12.8 | -6.1  | 1.2  | 6.1  | 14.3 | 17.2 | 12.3 | 8.7  | 3.6  | -4.7 | -10.1 | 1.6   |
| 1934    | -3.4  | -9.6  | -5.1  | 1.7  | 10.2 | 12.1 | 18.4 | 14.8 | 11.9 | 5.5  | 0.8  | -4.9  | 4.4   |
| 1935    | -10.9 | -6.2  | -4.5  | 0.2  | 4.9  | 14.3 | 14.8 | 13.1 | 8.3  | 5.3  | 0.2  | -2.4  | 3.1   |
| 1936    | -8.5  | -15.7 | -3.8  | 2.5  | 10.1 | 17.3 | 17.8 | 13.9 | 8.1  | 0.6  | 0.9  | -1.2  | 3.5   |
| 1937    | -8.7  | -10.6 | -4.5  | 3.9  | 9.9  | 16.2 | 16.5 | 15.7 | 10.4 | 4.9  | 0.3  | -12.3 | 3.5   |
| 1938    | -8.3  | -4.3  | -2.2  | 0.2  | 7.1  | 12.9 | 19.2 | 15.9 | 11.2 | 4.7  | 2.1  | -6.5  | 4.3   |
| 1939    | -11.0 | -4.8  | -5.1  | -0.9 | 6.8  | 13.6 | 16.0 | 15.3 | 6.3  | 0.3  | -0.4 | -9.0  | 2.3   |
| 1940    | -17.8 | -18.0 | -10.5 | -0.6 | 10.0 | 13.0 | 16.2 | 13.9 | 9.3  | 2.6  | -1.1 | -10.0 | 0.6   |
| 1941    | -18.3 | -11.6 | -9.6  | -2.1 | 4.4  | 10.5 | 18.2 | 13.7 | 5.9  | -0.9 | -5.7 | -17.3 | -1.1  |
| 1942    | -20.7 | -13.2 | -11.8 | 0.8  | 7.0  | 12.8 | 14.7 | 13.9 | 8.4  | 4.8  | -4.4 | -6.2  | 0.5   |
| 1943    | -13.9 | -4.3  | -2.1  | 2.5  | 8.8  | 14.3 | 16.2 | 13.5 | 8.5  | 4.4  | 0.5  | -2.8  | 3.8   |
| 1944    | -6.0  | -7.0  | -5.1  | -1.2 | 7.2  | 11.6 | 15.8 | 14.3 | 8.9  | 5.1  | -1.0 | -3.4  | 3.3   |
| 1945    | -10.1 | -6.8  | -7.7  | 0.9  | 5.5  | 12.2 | 17.0 | 15.7 | 7.1  | -0.8 | -3.2 | -13.4 | 1.4   |
| 1946    | -8.7  | -13.1 | -7.8  | 1.2  | 7.0  | 14.6 | 16.7 | 14.1 | 9.3  | 0.2  | -3.1 | -3.8  | 2.2   |
| 1947    | -10.4 | -17.7 | -10.0 | 1.6  | 7.5  | 14.9 | 15.7 | 13.2 | 10.0 | 2.3  | -2.8 | -8.0  | 1.4   |
| 1948    | -11.3 | -11.1 | -5.0  | 2.9  | 9.9  | 15.4 | 14.3 | 12.0 | 9.1  | 3.5  | -0.8 | -3.6  | 2.9   |
| 1949    | -4.7  | -4.9  | -5.9  | 2.4  | 10.3 | 12.0 | 14.2 | 11.9 | 11.1 | 3.7  | -0.8 | -4.4  | 3.7   |
| 1950    | -16.9 | -8.8  | -5.0  | 4.7  | 7.7  | 13.0 | 13.7 | 12.4 | 9.3  | 4.1  | -0.9 | -5.4  | 2.3   |
| 1951    | -11.4 | -10.0 | -9.3  | 2.9  | 4.6  | 12.4 | 14.3 | 15.1 | 9.8  | 4.9  | -4.3 | -3.2  | 2.2   |
| 1952    | -5.7  | -6.4  | -12.7 | 1.5  | 5.5  | 13.3 | 15.3 | 12.2 | 7.2  | -0.4 | -3.4 | -5.8  | 1.8   |
| 1953    | -10.8 | -15.9 | -3.2  | 2.8  | 7.8  | 15.9 | 15.2 | 14.2 | 6.0  | 4.4  | -1.3 | -3.4  | 2.7   |
| 1954    | -9.2  | -13.6 | -3.5  | -0.1 | 9.2  | 13.1 | 17.0 | 13.8 | 9.3  | 3.4  | -2.2 | -2.5  | 2.9   |
| 1955    | -9.2  | -13.8 | -9.9  | -3.4 | 4.5  | 11.2 | 15.9 | 15.4 | 11.4 | 3.9  | -5.9 | -20.3 | -0.2  |
| 1956    | -12.3 | -18.2 | -7.6  | -2.2 | 7.8  | 15.4 | 13.1 | 11.1 | 6.5  | 1.7  | -8.6 | -5.3  | 0.1   |
| 1957    | -6.2  | -5.8  | -11.0 | 0.6  | 8.4  | 11.3 | 17.3 | 13.9 | 8.1  | 3.8  | -1.9 | -4.7  | 2.8   |
| 1958    | -12.9 | -10.4 | -11.2 | -0.8 | 7.0  | 12.3 | 14.0 | 12.8 | 7.8  | 4.0  | 0.7  | -12.6 | 0.9   |
| 1959    | -9.1  | -5.9  | -2.8  | 1.2  | 7.8  | 14.6 | 16.4 | 14.4 | 6.7  | 1.9  | -2.8 | -11.7 | 2.6   |
| 1960    | -13.0 | -13.6 | -5.8  | 1.0  | 9.5  | 15.0 | 18.2 | 13.7 | 7.4  | -0.4 | -4.0 | -4.1  | 2.0   |
| 1961    | -6.0  | -2.3  | -2.8  | -1.3 | 8.1  | 16.5 | 16.2 | 13.5 | 7.3  | 7.4  | -0.6 | -8.2  | 1.0   |
| 1962    | -6.4  | -8.2  | -10.8 | 3.7  | 8.0  | 11.1 | 13.7 | 11.5 | 8.0  | 4.6  | 0.6  | -10.3 | 2.1   |
| 1963    | -15.5 | -14.2 | -13.6 | 1.1  | 12.1 | 12.3 | 15.4 | 14.4 | 11.0 | 4.3  | -1.3 | -9.2  | 1.4   |
| 1964    | -6.2  | -11.5 | -7.9  | 1.2  | 8.9  | 13.3 | 15.6 | 12.9 | 8.1  | 5.7  | -4.8 | -6.3  | 2.4   |
| 1965    | -7.3  | -11.4 | -6.0  | 0.8  | 5.2  | 14.1 | 13.7 | 13.0 | 10.8 | 3.1  | -6.8 | -5.0  | 1.9   |
| 1966    | -21.1 | -19.0 | -7.5  | -1.5 | 8.6  | 15.8 | 16.4 | 12.9 | 6.8  | 2.9  | 0.2  | -9.3  | 0.4   |
| 1967    | -15.6 | -8.9  | -0.4  | 2.5  | 8.9  | 12.9 | 15.7 | 16.0 | 9.8  | 6.2  | 1.5  | -14.5 | 2.8   |
| 1968    | -21.8 | -9.5  | -2.5  | 1.1  | 7.1  | 15.8 | 13.3 | 14.3 | 7.3  | -0.2 | -4.5 | -4.9  | 1.3   |
| 1969    | -17.4 | -14.4 | -8.6  | 1.3  | 6.9  | 13.5 | 15.3 | 14.1 | 7.9  | 3.6  | -1.3 | -9.8  | 0.9   |
| 1970    | -12.5 | -15.6 | -3.6  | 0.8  | 8.1  | 15.6 | 16.5 | 13.7 | 8.6  | 2.6  | -3.7 | -6.9  | 2.0   |
| 1971    | -5.0  | -12.3 | -7.5  | -0.7 | 7.4  | 12.5 | 15.2 | 13.9 | 7.0  | 1.5  | -4.8 | -7.9  | 1.7   |
| 1972    | -13.7 | -8.7  | -5.9  | 0.9  | 7.8  | 16.2 | 19.2 | 16.1 | 8.3  | 3.0  | -2.9 | 0.2   | 3.4   |
| 1973    | -6.6  | -8.1  | -4.2  | 2.1  | 9.4  | 16.1 | 18.2 | 13.4 | 4.8  | -0.2 | -5.2 | -11.0 | 2.4   |
| 1974    | -11.5 | -1.4  | -3.6  | -0.2 | 5.1  | 14.4 | 16.7 | 13.9 | 11.4 | 4.0  | -0.8 | -1.4  | 3.0   |
| 1975    | -4.9  | -7.2  | -1.1  | 2.9  | 10.8 | 13.0 | 16.4 | 13.1 | 10.8 | 2.5  | -1.6 | -5.3  | 4.1   |
| 1976    | -16.7 | -13.5 | -7.9  | 0.5  | 9.2  | 10.5 | 14.3 | 12.3 | 5.0  | -2.4 | -2.5 | -5.8  | 0.3   |

## Taulukko 2

8

Kasvukauden lämpötilat<sup>oC</sup>

| Norm. arvot<br>1931 - 60 | 7.7<br>V | 13.4<br>VI | 16.1<br>VII | 13.9<br>VIII | 8.6<br>IX | 11.9<br>X - XI | 1064<br>Tehoisan lämpötil. sumi |
|--------------------------|----------|------------|-------------|--------------|-----------|----------------|---------------------------------|
|                          |          |            |             |              |           | <b>Σ</b>       |                                 |
| 1925                     | 9.2      | 12.6       | 19.6        | 14.2         | 8.5       | 12.8           | 1201                            |
| 26                       | 8.0      | 14.6       | 15.8        | 13.7         | 7.6       | 11.9           | 1064                            |
| 27                       | 5.8      | 13.0       | 17.7        | 16.3         | 7.9       | 12.1           | 1096                            |
| 28                       | 8.4      | 10.6       | 13.0        | 13.1         | 7.7       | 10.6           | 854                             |
| 29                       | 9.0      | 12.5       | 15.0        | 13.6         | 7.9       | 11.6           | 1013                            |
| 1930                     | 9.4      | 12.8       | 16.2        | 15.8         | 6.1       | 12.1           | 1085                            |
| 31                       | 10.0     | 10.7       | 17.2        | 14.6         | 6.1       | 11.7           | 1035                            |
| 32                       | 8.1      | 11.6       | 17.2        | 14.8         | 9.2       | 12.2           | 1102                            |
| 33                       | 6.1      | 14.3       | 17.2        | 12.3         | 8.7       | 11.7           | 1029                            |
| 34                       | 10.2     | 12.1       | 18.4        | 14.8         | 11.9      | 13.5           | 1300                            |
| 35                       | 4.9      | 14.3       | 14.8        | 13.1         | 8.3       | 11.1           | 933                             |
| 36                       | 10.1     | 17.3       | 17.8        | 13.9         | 8.1       | 13.4           | 1293                            |
| 37                       | 9.9      | 16.2       | 16.5        | 15.7         | 10.4      | 13.7           | 1338                            |
| 38                       | 7.1      | 12.9       | 19.2        | 15.9         | 11.2      | 13.3           | 1266                            |
| 39                       | 6.8      | 13.6       | 16.0        | 15.3         | 6.3       | 11.6           | 1013                            |
| 1940                     | 10.0     | 13.0       | 16.2        | 13.9         | 9.3       | 12.5           | 1147                            |
| 41                       | 4.4      | 10.5       | 18.2        | 13.7         | 5.9       | 10.5           | 871                             |
| 42                       | 7.0      | 12.8       | 14.7        | 13.9         | 8.4       | 11.4           | 975                             |
| 43                       | 8.8      | 14.3       | 16.2        | 13.5         | 8.5       | 12.3           | 1113                            |
| 44                       | 7.2      | 11.6       | 15.8        | 14.3         | 8.9       | 11.6           | 1006                            |
| 45                       | 5.5      | 12.2       | 17.0        | 15.7         | 7.1       | 11.5           | 998                             |
| 46                       | 7.0      | 14.6       | 16.7        | 14.1         | 9.3       | 12.3           | 1124                            |
| 47                       | 7.5      | 14.9       | 15.7        | 13.2         | 10.0      | 12.3           | 1110                            |
| 48                       | 9.9      | 15.4       | 14.3        | 12.0         | 9.1       | 12.1           | 1092                            |
| 49                       | 10.3     | 12.0       | 14.2        | 11.9         | 11.1      | 11.9           | 1056                            |
| 1950                     | 7.7      | 13.0       | 13.7        | 12.4         | 9.3       | 11.2           | 951                             |
| 51                       | 4.6      | 12.4       | 14.3        | 15.1         | 9.8       | 11.2           | 967                             |
| 52                       | 5.5      | 13.3       | 15.3        | 12.2         | 7.2       | 10.7           | 873                             |
| 53                       | 7.8      | 15.9       | 15.2        | 14.2         | 6.0       | 11.8           | 1045                            |
| 54                       | 9.2      | 13.1       | 17.0        | 13.8         | 9.3       | 12.5           | 1147                            |
| 55                       | 4.5      | 11.2       | 15.9        | 15.4         | 11.4      | 11.7           | 1038                            |
| 56                       | 7.8      | 15.4       | 13.1        | 11.1         | 6.5       | 10.8           | 984                             |
| 57                       | 8.4      | 11.3       | 17.3        | 13.9         | 9.1       | 11.8           | 1045                            |
| 58                       | 7.0      | 12.3       | 14.0        | 12.8         | 7.8       | 10.8           | 885                             |
| 59                       | 7.8      | 14.6       | 16.4        | 14.4         | 6.7       | 12.0           | 1071                            |
| 1960                     | 9.5      | 15.0       | 18.2        | 13.7         | 7.4       | 12.8           | 1190                            |
| 61                       | 8.1      | 16.5       | 16.2        | 13.5         | 7.3       | 12.3           | 1120                            |
| 62                       | 8.0      | 11.1       | 13.7        | 11.5         | 8.0       | 10.5           | 837                             |
| 63                       | 12.1     | 12.3       | 15.4        | 14.4         | 11.0      | 13.0           | 1233                            |
| 64                       | 8.9      | 13.3       | 15.6        | 12.9         | 8.1       | 11.8           | 1036                            |
| 65                       | 5.2      | 14.1       | 13.7        | 13.0         | 10.8      | 11.4           | 971                             |
| 66                       | 8.6      | 15.8       | 16.4        | 12.8         | 6.8       | 12.1           | 1120                            |
| 67                       | 8.9      | 12.9       | 15.7        | 16.0         | 9.8       | 12.7           | 1259                            |
| 68                       | 7.1      | 15.8       | 13.3        | 14.3         | 7.3       | 11.6           | 1045                            |
| 69                       | 6.9      | 13.5       | 15.3        | 14.1         | 7.0       | 11.5           | 1042                            |
| 1970                     | 8.1      | 15.6       | 16.5        | 13.7         | 8.6       | 12.5           | 1172                            |
| 71                       | 7.4      | 12.5       | 15.2        | 13.9         | 7.0       | 11.2           | 1002                            |
| 72                       | 7.8      | 16.2       | 19.2        | 16.1         | 8.3       | 13.5           | 1329                            |
| 73                       | 9.4      | 16.1       | 19.2        | 13.4         | 1.8       | 12.4           | 1182                            |
| 74                       | 5.1      | 14.4       | 16.7        | 13.0         | 11.4      | 12.3           | 1140                            |
| 75                       | 10.8     | 13.0       | 16.4        | 13.1         | 10.8      | 12.9           | 1232                            |
| 76                       | 9.2      | 10.5       | 14.3        | 12.3         | 5.9       | 10.4           | 903                             |

## Taulukko 3

9

Talvikauden lämpötila, °C

| Norm. arvot<br>1931 - 60 | I<br>- 10.5 | II<br>- 10.6 | III<br>- 6.8 | IV<br>1.0 | X<br>2.9 | XI<br>- 2.0 | XII<br>- 6.9 | Ka.<br>- 4.7 |
|--------------------------|-------------|--------------|--------------|-----------|----------|-------------|--------------|--------------|
| 1925                     | - 2.2       | - 4.1        | - 6.3        | 3.5       | 0.7      | - 6.8       | - 10.8       | - 3.7        |
| 26                       | - 15.5      | - 10.9       | - 5.2        | - 0.3     | 0.1      | - 0.4       | - 10.3       | - 6.1        |
| 27                       | - 14.3      | - 10.4       | - 3.7        | 0.9       | 0.3      | - 5.5       | - 11.6       | - 6.3        |
| 28                       | - 8.7       | - 9.4        | - 5.7        | 1.0       | 2.2      | - 1.3       | - 5.4        | - 3.9        |
| 29                       | - 14.3      | - 18.8       | - 7.0        | - 4.5     | 4.9      | 1.4         | - 0.8        | - 5.6        |
| 1930                     | - 3.2       | - 10.2       | - 5.0        | 1.5       | 3.2      | - 0.9       | - 10.2       | - 3.5        |
| 31                       | - 11.6      | - 12.0       | - 6.9        | 1.1       | 2.4      | - 1.3       | - 7.2        | - 5.1        |
| 32                       | - 4.0       | - 12.1       | - 8.2        | 1.9       | 3.2      | - 1.7       | - 0.2        | - 3.0        |
| 33                       | - 10.0      | - 12.8       | - 6.1        | 1.2       | 3.6      | - 4.7       | - 10.1       | - 5.6        |
| 34                       | - 3.4       | - 9.6        | - 5.1        | 1.7       | 5.5      | 0.8         | - 4.9        | - 2.1        |
| 35                       | - 10.9      | - 6.2        | - 4.5        | 0.2       | 5.3      | 0.2         | - 2.4        | - 2.6        |
| 36                       | - 8.5       | - 15.7       | - 3.8        | 2.5       | 0.6      | 0.9         | - 1.2        | - 3.6        |
| 37                       | - 8.7       | - 10.6       | - 4.5        | 3.9       | 4.9      | 0.3         | - 12.3       | - 3.9        |
| 38                       | - 8.3       | - 4.3        | - 2.2        | 0.2       | 4.7      | 2.1         | - 6.5        | - 2.0        |
| 39                       | - 11.0      | - 4.8        | - 5.1        | - 0.9     | 0.3      | - 0.4       | - 9.0        | - 4.4        |
| 1940                     | - 17.8      | - 18.0       | - 10.5       | - 0.6     | 2.6      | - 1.1       | - 10.0       | - 7.9        |
| 41                       | - 18.3      | - 11.6       | - 9.6        | - 2.1     | - 0.9    | - 5.7       | - 17.3       | - 9.4        |
| 42                       | - 20.7      | - 13.2       | - 11.8       | 0.8       | 4.8      | 4.4         | - 6.2        | - 6.0        |
| 43                       | - 13.9      | - 4.3        | - 2.1        | 2.5       | 4.4      | 0.5         | - 2.8        | - 2.2        |
| 44                       | - 6.0       | - 7.0        | - 5.1        | - 1.2     | 5.1      | - 1.0       | - 3.4        | - 2.7        |
| 45                       | - 10.1      | - 6.8        | - 7.7        | 0.9       | - 0.8    | - 3.2       | - 13.4       | - 5.9        |
| 46                       | - 8.7       | - 13.1       | - 7.8        | 1.2       | 0.2      | - 3.1       | - 3.8        | - 5.0        |
| 47                       | - 10.4      | - 17.7       | - 10.0       | 1.6       | 2.3      | - 2.8       | - 8.0        | - 6.4        |
| 48                       | - 11.3      | - 11.1       | - 5.0        | 2.9       | 3.5      | - 0.8       | - 3.6        | - 3.6        |
| 49                       | - 4.7       | - 4.9        | - 5.9        | 2.4       | 3.7      | - 0.8       | - 4.4        | - 2.1        |
| 1950                     | - 16.9      | - 8.8        | - 5.0        | 4.7       | 4.1      | - 0.9       | - 5.4        | - 4.0        |
| 51                       | - 11.4      | - 10.0       | - 9.3        | 2.9       | 4.9      | - 4.3       | - 3.2        | - 4.3        |
| 52                       | - 5.7       | - 6.4        | - 12.7       | 1.5       | - 0.4    | - 3.4       | - 5.8        | - 4.7        |
| 53                       | - 10.8      | - 15.9       | - 3.2        | 2.8       | 4.4      | - 1.3       | - 3.4        | - 3.9        |
| 54                       | - 9.2       | - 13.6       | - 3.5        | - 0.1     | 3.4      | - 2.2       | - 2.5        | - 4.0        |
| 55                       | - 9.2       | - 13.8       | - 9.9        | - 3.4     | 3.9      | - 5.9       | - 20.3       | - 8.4        |
| 56                       | - 12.3      | - 18.2       | - 7.6        | - 2.2     | 1.7      | - 8.6       | - 5.3        | - 7.5        |
| 57                       | - 6.2       | - 5.8        | - 11.0       | 0.6       | 3.8      | - 1.9       | - 4.7        | - 3.6        |
| 58                       | - 12.9      | - 10.4       | - 11.2       | - 0.8     | 4.0      | 0.7         | - 12.6       | - 6.2        |
| 59                       | - 9.1       | - 5.9        | - 2.8        | 1.2       | 1.9      | - 2.8       | - 11.7       | - 4.2        |
| 1960                     | - 13.0      | - 13.6       | - 5.8        | 1.0       | - 0.4    | - 4.0       | - 4.1        | - 5.7        |
| 61                       | - 6.0       | - 2.3        | - 2.8        | - 1.3     | 7.4      | - 0.6       | - 8.2        | - 2.0        |
| 62                       | - 6.4       | - 8.2        | - 10.8       | 3.7       | 4.6      | 0.6         | - 10.3       | - 3.8        |
| 63                       | - 15.5      | - 14.2       | - 13.6       | 1.1       | 4.3      | - 1.3       | - 9.2        | - 6.9        |
| 64                       | - 6.2       | - 11.5       | - 7.9        | 1.2       | 5.7      | - 4.8       | - 6.3        | - 4.3        |
| 65                       | - 7.3       | - 11.4       | - 6.0        | 0.8       | 3.1      | - 6.8       | - 5.9        | - 4.8        |
| 66                       | - 21.1      | - 19.0       | - 7.5        | - 1.5     | 2.9      | 0.2         | - 9.3        | - 7.9        |
| 67                       | - 15.6      | - 8.9        | - 0.4        | 2.5       | 6.2      | 1.5         | - 14.5       | - 4.2        |
| 68                       | - 21.8      | - 9.5        | - 2.5        | 1.1       | - 0.2    | - 4.5       | - 4.9        | - 6.0        |
| 69                       | - 17.4      | - 14.4       | - 8.6        | 1.3       | 3.6      | - 1.3       | - 9.8        | - 6.7        |
| 1970                     | - 12.5      | - 15.6       | - 3.6        | 0.8       | 2.6      | - 3.7       | - 6.9        | - 5.6        |
| 71                       | - 5.0       | - 12.3       | - 7.5        | - 0.7     | 1.5      | - 4.8       | - 7.6        | - 5.2        |
| 72                       | - 13.7      | - 8.7        | - 5.9        | 0.9       | 3.0      | - 2.9       | 0.2          | - 3.9        |
| 73                       | - 6.6       | - 8.1        | - 4.2        | 2.1       | - 0.2    | - 5.2       | - 11.0       | - 4.7        |
| 74                       | - 11.5      | - 1.4        | - 3.6        | - 0.2     | 4.0      | - 0.8       | - 1.4        | - 2.1        |
| 75                       | - 4.9       | - 7.2        | - 1.1        | 2.9       | 2.5      | - 1.6       | - 5.3        | - 2.1        |
| 76                       | - 16.7      | - 13.5       | - 7.9        | 0.5       | - 2.4    | - 2.5       | - 5.8        | - 6.9        |

Sademääärä, mm

| Norm. arvot<br>1931 - 60 | 44<br>I | 34<br>II | 27<br>III | 37<br>IV | 39<br>V | 57<br>VI | 74<br>VII | 74<br>VIII | 67<br>IX | 64<br>X | 50<br>XI | 46<br>XII | 6P<br>I-XII |
|--------------------------|---------|----------|-----------|----------|---------|----------|-----------|------------|----------|---------|----------|-----------|-------------|
| 1925                     | 12.0    | 33.6     | 19.2      | 33.7     | 33.6    | 95.1     | 7.4       | 126.5      | 137.3    | 53.5    | 29.5     | 29.0      | 610.4       |
| 1926                     | 13.5    | 12.1     | 20.8      | 28.2     | 99.3    | 62.1     | 32.7      | 45.6       | 52.6     | 41.9    | 58.3     | 42.3      | 509.4       |
| 1927                     | 52.8    | 49.5     | 57.3      | 64.8     | 75.4    | 111.0    | 39.4      | 130.0      | 51.4     | 69.4    | 56.5     | 22.8      | 780.3       |
| 1928                     | 31.1    | 24.4     | 11.9      | 7.2      | 44.2    | 115.0    | 109.7     | 97.5       | 61.6     | 122.9   | 77.3     | 50.7      | 753.5       |
| 1929                     | 18.4    | 15.8     | 43.8      | 38.5     | 81.4    | 15.8     | 93.2      | 63.0       | 82.1     | 97.3    | 59.5     | 62.9      | 671.7       |
| 1930                     | 76.4    | 23.8     | 39.0      | 17.4     | 48.2    | 43.6     | 22.4      | 141.6      | 49.7     | 48.7    | 74.8     | 19.2      | 604.8       |
| 1931                     | 47.1    | 27.3     | 20.6      | 47.8     | 28.5    | 75.1     | 39.4      | 145.2      | 51.0     | 86.0    | 15.4     | 36.9      | 620.3       |
| 1932                     | 56.8    | 18.6     | 11.3      | 62.4     | 53.3    | 94.8     | 29.8      | 46.4       | 115.1    | 78.0    | 35.4     | 46.8      | 648.7       |
| 1933                     | 18.2    | 60.4     | 42.7      | 10.6     | 25.5    | 59.7     | 92.3      | 75.6       | 28.1     | 46.4    | 23.4     | 25.7      | 508.6       |
| 1934                     | 43.4    | 43.8     | 22.9      | 48.6     | 62.2    | 53.0     | 139.7     | 44.4       | 43.9     | 128.0   | 113.1    | 20.1      | 763.1       |
| 1935                     | 44.7    | 53.4     | 27.4      | 50.3     | 55.3    | 81.8     | 144.0     | 102.2      | 98.1     | 118.3   | 21.1     | 67.4      | 864.0       |
| 1936                     | 36.0    | 47.1     | 15.5      | 35.7     | 47.6    | 53.1     | 47.6      | 50.2       | 40.9     | 53.8    | 25.3     | 55.9      | 508.7       |
| 1937                     | 35.2    | 54.2     | 57.4      | 10.2     | 84.0    | 17.5     | 60.9      | 95.1       | 129.1    | 16.7    | 103.0    | 25.2      | 688.5       |
| 1938                     | 53.2    | 18.2     | 70.3      | 53.3     | 68.7    | 93.4     | 25.6      | 40.5       | 78.6     | 60.2    | 66.0     | 27.3      | 655.3       |
| 1939                     | 55.9    | 41.7     | 19.5      | 45.1     | 14.5    | 20.7     | 64.7      | 9.6        | 56.3     | 11.4    | 60.0     | 23.9      | 423.3       |
| 1940                     | 33.1    | 26.1     | 19.7      | 23.1     | 14.9    | 19.4     | 32.4      | 65.5       | 86.3     | 40.0    | 58.5     | 20.8      | 439.8       |
| 1941                     | 13.2    | 28.7     | 27.2      | 21.5     | 18.1    | 77.5     | 21.4      | 68.3       | 32.4     | 40.8    | 19.2     | 25.2      | 393.5       |
| 1942                     | 43.4    | 9.7      | 23.2      | 8.0      | 41.0    | 19.9     | 152.5     | 23.0       | 77.4     | 76.8    | 55.2     | 69.5      | 599.5       |
| 1943                     | 22.7    | 59.1     | 19.1      | 86.4     | 43.7    | 91.3     | 97.6      | 140.2      | 50.9     | 74.4    | 51.2     | 31.8      | 768.4       |
| 1944                     | 45.6    | 7.6      | 30.6      | 41.8     | 59.2    | 78.9     | 47.4      | 37.7       | 101.2    | 65.2    | 69.2     | 57.9      | 642.8       |
| 1945                     | 28.0    | 56.6     | 33.1      | 35.0     | 38.7    | 74.5     | 38.0      | 59.0       | 89.2     | 44.6    | 13.8     | 48.6      | 559.1       |
| 1946                     | 50.3    | 36.7     | 14.1      | 43.0     | 41.7    | 69.7     | 16.0      | 40.8       | 74.0     | 30.7    | 57.1     | 40.8      | 514.9       |
| 1947                     | 28.0    | 15.7     | 22.1      | 60.4     | 3.6     | 24.5     | 93.8      | 11.6       | 45.5     | 38.4    | 59.6     | 42.8      | 455.0       |
| 1948                     | 50.0    | 10.0     | 14.8      | 29.1     | 65.8    | 66.0     | 78.8      | 140.7      | 51.1     | 78.7    | 53.6     | 41.7      | 680.3       |
| 1949                     | 96.8    | 22.6     | 25.5      | 36.0     | 18.7    | 62.3     | 104.5     | 109.9      | 37.2     | 85.0    | 28.4     | 80.1      | 707.0       |
| 1950                     | 11.4    | 38.6     | 33.6      | 53.1     | 49.0    | 47.4     | 90.0      | 26.2       | 65.6     | 51.7    | 59.6     | 30.6      | 567.7       |
| 1951                     | 47.2    | 31.6     | 25.2      | 44.4     | 7.0     | 32.5     | 58.2      | 29.7       | 57.6     | 20.7    | 72.0     | 66.5      | 492.6       |
| 1952                     | 51.9    | 54.9     | 19.4      | 33.7     | 32.9    | 47.6     | 73.9      | 111.5      | 68.1     | 45.7    | 39.2     | 60.7      | 638.9       |
| 1953                     | 25.1    | 37.4     | 25.8      | 15.0     | 44.4    | 73.8     | 76.3      | 143.7      | 34.3     | 41.8    | 37.3     | 27.0      | 581.9       |
| 1954                     | 46.9    | 9.5      | 27.7      | 24.6     | 11.8    | 84.9     | 209.7     | 111.8      | 98.9     | 109.1   | 84.0     | 99.1      | 918.0       |
| 1955                     | 88.7    | 29.5     | 47.5      | 37.4     | 70.6    | 23.5     | 36.2      | 21.9       | 128.2    | 143.3   | 61.4     | 28.6      | 718.8       |
| 1956                     | 50.9    | 20.7     | 18.0      | 26.2     | 26.9    | 38.4     | 41.0      | 89.2       | 26.2     | 103.2   | 38.9     | 39.3      | 518.9       |
| 1957                     | 46.2    | 64.6     | 17.1      | 36.6     | 53.8    | 54.6     | 55.4      | 135.0      | 92.4     | 96.0    | 18.1     | 89.2      | 759.0       |
| 1958                     | 36.4    | 25.6     | 33.4      | 23.8     | 53.2    | 68.7     | 77.2      | 38.6       | 42.5     | 51.3    | 48.8     | 55.4      | 554.9       |
| 1959                     | 77.2    | 21.6     | 24.5      | 43.3     | 12.3    | 14.4     | 64.4      | 123.7      | 60.1     | 27.3    | 48.8     | 47.5      | 565.1       |
| 1960                     | 45.3    | 38.7     | 13.9      | 14.1     | 24.9    | 86.3     | 99.7      | 67.3       | 34.3     | 49.5    | 65.9     | 59.1      | 599.0       |
| 1961                     | 77.4    | 56.7     | 60.1      | 15.7     | 31.9    | 45.2     | 69.7      | 135.2      | 34.2     | 47.8    | 57.5     | 29.7      | 661.1       |
| 1962                     | 54.9    | 40.6     | 22.5      | 41.6     | 36.2    | 68.4     | 85.9      | 119.2      | 108.9    | 55.5    | 81.7     | 39.5      | 754.9       |
| 1963                     | 36.4    | 20.1     | 18.9      | 29.2     | 31.8    | 31.3     | 66.0      | 41.1       | 30.8     | 93.7    | 39.6     | 27.8      | 466.7       |
| 1964                     | 27.5    | 19.2     | 8.8       | 36.7     | 33.3    | 38.7     | 28.6      | 58.8       | 59.8     | 45.1    | 50.9     | 70.8      | 478.2       |
| 1965                     | 46.2    | 22.6     | 30.9      | 21.8     | 45.1    | 91.6     | 77.9      | 51.8       | 69.3     | 51.2    | 31.6     | 70.8      | 610.8       |
| 1966                     | 27.9    | 22.3     | 61.0      | 48.7     | 41.3    | 54.6     | 99.9      | 66.4       | 66.6     | 66.6    | 61.2     | 30.3      | 646.8       |
| 1967                     | 25.7    | 32.4     | 51.2      | 26.6     | 42.4    | 56.7     | 44.4      | 58.4       | 52.3     | 129.0   | 51.6     | 44.4      | 615.1       |
| 1968                     | 24.9    | 38.1     | 43.8      | 57.5     | 71.1    | 47.2     | 44.3      | 43.7       | 78.2     | 97.9    | 50.1     | 27.6      | 624.4       |
| 1969                     | 29      | 32       | 11        | 43       | 25      | 26       | 56        | 65         | 91       | 33      | 79       | 36        | 526         |
| 1970                     | 25      | 27       | 13        | 75       | 18      | 10       | 92        | 66         | 73       | 71      | 48       | 84        | 602         |
| 1971                     | 43      | 50       | 53        | 22       | 18      | 53       | 64        | 73         | 39       | 71      | 57       | 44        | 567         |
| 1972                     | 6       | 38       | 24        | 36       | 30      | 23       | 57        | 75         | 43       | 49      | 69       | 44        | 194         |
| 1973                     | 24      | 35       | 21        | 47       | 46      | 79       | 29        | 53         | 92       | 66      | 43       | 55        | 591         |
| 1974                     | 37      | 59       | 30        | 8        | 34      | 86       | 170       | 99         | 56       | 87      | 122      | 87        | 875         |
| 1975                     | 45      | 26       | 40        | 48       | 35      | 38       | 44        | 92         | 72       | 38      | 33       | 67        | 578         |
| 1976                     | 48      | 14       | 40        | 27       | 20      | 103      | 63        | 70         | 48       | 14      | 41       | 54        | 542         |

## Taulukko 5

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Kasvukauden sademäärä, mm

| Norm. arvot<br>1931 - 60 | V  | VI  | VII | VIII | IV  | V - IX | Koko vuosi |
|--------------------------|----|-----|-----|------|-----|--------|------------|
| 1925                     | 34 | 95  | 7   | 127  | 137 | 400    | 610        |
| 26                       | 99 | 62  | 33  | 46   | 53  | 293    | 509        |
| 27                       | 75 | 111 | 39  | 130  | 51  | 406    | 780        |
| 28                       | 44 | 115 | 110 | 98   | 62  | 429    | 754        |
| 29                       | 81 | 16  | 93  | 63   | 82  | 335    | 672        |
| 1930                     | 48 | 44  | 22  | 142  | 50  | 306    | 605        |
| 31                       | 29 | 75  | 39  | 145  | 51  | 339    | 620        |
| 32                       | 53 | 95  | 30  | 46   | 115 | 339    | 649        |
| 33                       | 26 | 60  | 92  | 76   | 28  | 282    | 509        |
| 34                       | 62 | 53  | 140 | 44   | 44  | 343    | 763        |
| 35                       | 55 | 82  | 144 | 102  | 98  | 481    | 864        |
| 36                       | 48 | 53  | 48  | 50   | 41  | 240    | 509        |
| 37                       | 84 | 18  | 61  | 95   | 129 | 387    | 689        |
| 38                       | 69 | 93  | 26  | 41   | 79  | 308    | 655        |
| 39                       | 15 | 21  | 65  | 10   | 56  | 167    | 423        |
| 1940                     | 15 | 19  | 32  | 66   | 86  | 218    | 440        |
| 41                       | 18 | 78  | 21  | 68   | 32  | 217    | 394        |
| 42                       | 41 | 20  | 153 | 23   | 77  | 314    | 600        |
| 43                       | 44 | 91  | 98  | 140  | 51  | 424    | 768        |
| 44                       | 59 | 79  | 47  | 38   | 101 | 324    | 643        |
| 45                       | 39 | 75  | 38  | 59   | 89  | 300    | 559        |
| 46                       | 42 | 70  | 16  | 41   | 74  | 243    | 515        |
| 47                       | 4  | 25  | 94  | 12   | 46  | 181    | 455        |
| 48                       | 66 | 66  | 79  | 141  | 51  | 403    | 680        |
| 49                       | 19 | 62  | 105 | 110  | 37  | 333    | 707        |
| 1950                     | 49 | 47  | 90  | 26   | 66  | 278    | 568        |
| 51                       | 7  | 33  | 58  | 30   | 58  | 186    | 493        |
| 52                       | 33 | 48  | 74  | 112  | 68  | 335    | 639        |
| 53                       | 44 | 74  | 76  | 144  | 34  | 372    | 582        |
| 54                       | 12 | 85  | 210 | 112  | 99  | 518    | 918        |
| 55                       | 71 | 24  | 36  | 22   | 128 | 281    | 717        |
| 56                       | 27 | 38  | 41  | 89   | 26  | 221    | 519        |
| 57                       | 54 | 55  | 55  | 135  | 92  | 391    | 759        |
| 58                       | 53 | 69  | 77  | 39   | 43  | 281    | 555        |
| 59                       | 12 | 14  | 64  | 124  | 60  | 274    | 565        |
| 1960                     | 25 | 86  | 100 | 67   | 34  | 312    | 599        |
| 61                       | 32 | 45  | 70  | 135  | 34  | 316    | 661        |
| 62                       | 36 | 68  | 86  | 119  | 110 | 419    | 755        |
| 63                       | 32 | 31  | 66  | 41   | 31  | 201    | 467        |
| 64                       | 33 | 39  | 29  | 59   | 60  | 220    | 478        |
| 65                       | 45 | 92  | 78  | 52   | 69  | 336    | 611        |
| 66                       | 41 | 55  | 100 | 66   | 67  | 329    | 647        |
| 67                       | 42 | 57  | 44  | 58   | 52  | 253    | 615        |
| 68                       | 71 | 47  | 44  | 44   | 78  | 284    | 624        |
| 69                       | 25 | 26  | 56  | 65   | 91  | 263    | 526        |
| 1970                     | 18 | 10  | 92  | 66   | 73  | 259    | 602        |
| 71                       | 18 | 33  | 64  | 73   | 39  | 227    | 567        |
| 72                       | 30 | 23  | 57  | 75   | 43  | 228    | 494        |
| 73                       | 46 | 79  | 29  | 53   | 92  | 299    | 591        |
| 74                       | 34 | 86  | 170 | 99   | 56  | 445    | 875        |
| 75                       | 35 | 38  | 44  | 92   | 72  | 281    | 578        |
| 76                       | 20 | 103 | 63  | 70   | 48  | 304    | 542        |

## KESKILÄMPÖTILAT JA SADEMAÄRÄT v. 1925 - 1976

| Vuosi                            | Keski-lämpöt.<br>°C | Sade<br>mm | Vuosi | Keski-lämpöt.<br>°C | Sade<br>mm |
|----------------------------------|---------------------|------------|-------|---------------------|------------|
| 1925                             | 3.2                 | 610        | 1951  | 2.2                 | 493        |
| 1926                             | 1.4                 | 509        | 1952  | 1.8                 | 639        |
| 1927                             | 1.4                 | 780        | 1953  | 2.7                 | 582        |
| 1928                             | 2.1                 | 754        | 1954  | 2.9                 | 918        |
| 1929                             | 1.6                 | 672        | 1955  | -0.2                | 717        |
| 1930                             | 3.0                 | 605        | 1956  | 0.1                 | 519        |
| 1931                             | 1.9                 | 620        | 1957  | 2.8                 | 759        |
| 1932                             | 3.3                 | 649        | 1958  | 0.9                 | 555        |
| 1933                             | 1.6                 | 509        | 1959  | 2.6                 | 565        |
| 1934                             | 4.4                 | 763        | 1960  | 2.0                 | 599        |
| 1935                             | 3.1                 | 864        | 1961  | 4.0                 | 661        |
| 1936                             | 3.5                 | 509        | 1962  | 2.1                 | 755        |
| 1937                             | 3.5                 | 689        | 1963  | 1.4                 | 467        |
| 1938                             | 4.3                 | 655        | 1964  | 2.4                 | 478        |
| 1939                             | 2.3                 | 423        | 1965  | 1.9                 | 611        |
| 1940                             | 0.6                 | 440        | 1966  | 0.4                 | 647        |
| 1941                             | -1.1                | 394        | 1967  | 2.8                 | 615        |
| 1942                             | 0.5                 | 560        | 1968  | 1.3                 | 624        |
| 1943                             | 3.8                 | 768        | 1969  | 0.9                 | 526        |
| 1944                             | 3.3                 | 643        | 1970  | 2.0                 | 602        |
| 1945                             | 1.4                 | 559        | 1971  | 1.7                 | 567        |
| 1946                             | 2.2                 | 515        | 1972  | 3.4                 | 494        |
| 1947                             | 1.4                 | 455        | 1973  | 2.4                 | 591        |
| 1948                             | 2.9                 | 680        | 1974  | 3.9                 | 875        |
| 1949                             | 3.7                 | 707        | 1975  | 4.1                 | 578        |
| 1950                             | 2.3                 | 568        | 1976  | 0.3                 | 542        |
| Normaaliarvot vuosilta 1931 - 60 |                     |            |       | 2.2                 | 612        |

## Taulukko 7

13

Talvikauden sademäärä, mm

| Norm. arvot<br>1931 - 60 | I<br>44 | II<br>34 | III<br>27 | IV<br>37 | X<br>64 | XI<br>50 | XII<br>46 | YHT<br>302 |
|--------------------------|---------|----------|-----------|----------|---------|----------|-----------|------------|
| 1925                     | 12      | 34       | 19        | 34       | 54      | 30       | 29        | 212        |
| 26                       | 14      | 12       | 21        | 28       | 42      | 58       | 42        | 217        |
| 27                       | 53      | 50       | 57        | 65       | 69      | 57       | 23        | 374        |
| 28                       | 31      | 24       | 12        | 7        | 123     | 77       | 51        | 325        |
| 29                       | 19 8    | 16       | 44        | 39       | 97      | 60       | 63        | 338        |
| 1930                     | 76      | 24       | 39        | 17       | 49      | 75       | 19        | 299        |
| 31                       | 47      | 27       | 21        | 48       | 86      | 15       | 37        | 281        |
| 32                       | 57      | 19       | 11        | 62       | 78      | 35       | 47        | 309        |
| 33                       | 18      | 60       | 43        | 11       | 46      | 23       | 26        | 227        |
| 34                       | 43      | 44       | 23        | 49       | 128     | 113      | 20        | 420        |
| 35                       | 45      | 53       | 27        | 50       | 118     | 21       | 67        | 381        |
| 36                       | 36      | 47       | 16        | 36       | 54      | 25       | 56        | 270        |
| 37                       | 35      | 54       | 57        | 10       | 17      | 103      | 25        | 301        |
| 38                       | 53      | 18       | 70        | 53       | 60      | 66       | 27        | 347        |
| 39                       | 56      | 42       | 20        | 45       | 11      | 60       | 24        | 258        |
| 1940                     | 33      | 26       | 20        | 23       | 40      | 59       | 21        | 222        |
| 41                       | 13      | 29       | 27        | 22       | 41      | 19       | 25        | 176        |
| 42                       | 43      | 10       | 23        | 8        | 77      | 55       | 70        | 286        |
| 43                       | 23      | 59       | 19        | 86       | 74      | 51       | 32        | 344        |
| 44                       | 46      | 8        | 31        | 42       | 65      | 69       | 58        | 319        |
| 45                       | 28      | 57       | 33        | 35       | 45      | 14       | 49        | 261        |
| 46                       | 50      | 37       | 14        | 43       | 31      | 57       | 41        | 273        |
| 47                       | 28      | 16       | 22        | 69       | 38      | 60       | 43        | 276        |
| 48                       | 50      | 10       | 15        | 29       | 79      | 54       | 42        | 279        |
| 49                       | 97      | 23       | 26        | 36       | 85      | 28       | 80        | 375        |
| 1950                     | 11      | 39       | 34        | 53       | 52      | 60       | 31        | 280        |
| 51                       | 47      | 32       | 25        | 44       | 21      | 72       | 67        | 308        |
| 52                       | 52      | 55       | 19        | 34       | 46      | 39       | 61        | 306        |
| 53                       | 25      | 37       | 26        | 15       | 42      | 37       | 27        | 209        |
| 54                       | 47      | 10       | 28        | 25       | 109     | 84       | 99        | 402        |
| 55                       | 89      | 30       | 48        | 37       | 143     | 61       | 29        | 437        |
| 56                       | 51      | 21       | 18        | 26       | 103     | 39       | 39        | 297        |
| 57                       | 46      | 65       | 17        | 37       | 96      | 18       | 89        | 368        |
| 58                       | 36      | 26       | 33        | 24       | 51      | 49       | 55        | 274        |
| 59                       | 77      | 22       | 25        | 43       | 27      | 49       | 48        | 291        |
| 1960                     | 45      | 39       | 14        | 14       | 50      | 66       | 59        | 287        |
| 61                       | 77      | 57       | 60        | 16       | 48      | 58       | 30        | 346        |
| 62                       | 55      | 41       | 23        | 42       | 56      | 82       | 40        | 339        |
| 63                       | 36      | 20       | 19        | 29       | 94      | 40       | 28        | 266        |
| 64                       | 28      | 19       | 9         | 37       | 45      | 51       | 71        | 260        |
| 65                       | 46      | 23       | 31        | 22       | 51      | 32       | 71        | 276        |
| 66                       | 28      | 22       | 61        | 49       | 67      | 61       | 30        | 318        |
| 67                       | 26      | 32       | 51        | 27       | 129     | 52       | 44        | 361        |
| 68                       | 25      | 38       | 44        | 58       | 98      | 50       | 28        | 341        |
| 69                       | 29      | 32       | 11        | 43       | 33      | 79       | 36        | 263        |
| 1970                     | 25      | 27       | 13        | 75       | 71      | 48       | 84        | 343        |
| 71                       | 43      | 50       | 53        | 22       | 71      | 57       | 44        | 340        |
| 72                       | 6       | 38       | 24        | 36       | 49      | 69       | 44        | 266        |
| 73                       | 24      | 35       | 21        | 47       | 66      | 43       | 55        | 291        |
| 74                       | 37      | 59       | 30        | 8        | 87      | 122      | 87        | 430        |
| 75                       | 45      | 26       | 40        | 48       | 38      | 33       | 67        | 297        |
| 76                       | 48      | 14       | 40        | 27       | 14      | 41       | 54        | 238        |

LUMIHAVAINTOJA v. 1927 - 1976

| Vuosi   | Lumipeite vahvimmill.<br>Päivä | Lumen sulam.<br>cm | Ensi-<br>suovilj. | Pysyvä<br>lumi | Lumipeite<br>päiviä kpl. |
|---------|--------------------------------|--------------------|-------------------|----------------|--------------------------|
| 1927    | 3.3                            | 79                 | 5.5               | 2.11           | 185                      |
| 1928    | 10.2                           | 60                 | 25.4              | 4.11           | 140                      |
| 1929    | 17.3                           | 56                 | 8.5               | 17.11          | 145                      |
| 1930    | 17.2                           | 30                 | 9.4               | 3.11           | 148                      |
| 1931    | 15.3                           | 49                 | 24.4              | 22.10          | 139                      |
| 1932    | 10.1                           | 37                 | 15.4              | 27.10          | 105                      |
| 1933    | 23.3                           | 55                 | 17.4              | 3.11           | 138                      |
| 1934    | 12.3                           | 45                 | 21.4              | 23.11          | 150                      |
| 1935    | 30.3                           | 59                 | 25.4              | 26.10          | 141                      |
| 1936    | 1.3                            | 53                 | 20.4              | 14.10          | 119                      |
| 1937    | 14.3                           | 62                 | 18.4              | 4.11           | 153                      |
| 1938    | 19.3                           | 65                 | 29.4              | 8.11           | 143                      |
| 1939    | 25.3                           | 50                 | 27.4              | 7.11           | 180                      |
| 1940    | 28.3                           | 70                 | 4.5               | 24.10          | 155                      |
| 1941    | 24.3                           | 58                 | 3.5               | 14.10          | 201                      |
| 1942    | 26.3                           | 60                 | 21.4              | 3.11           | 151                      |
| 1943    | 22.2                           | 75                 | 16.4              | 25.10          | 139                      |
| 1944    | 16.3                           | 61                 | 26.4              | 25.10          | 159                      |
| 1945    | 24.3                           | 75                 | 1.5               | 15.10          | 180                      |
| 1946    | 19.3                           | 78                 | 26.4              | 22.10          | 147                      |
| 1947    | 18.3                           | 50                 | 24.4              | 3.11           | 173                      |
| 1948    | 31.1                           | 58                 | 10.4              | 1.11           | 121                      |
| 1949    | 20.3                           | 40                 | 12.4              | 5.10           | 137                      |
| 1950    | 5.3                            | 52                 | 5.4               | 1.11           | 149                      |
| 1951    | 24.3                           | 72                 | 25.4              | 9.11           | 151                      |
| 1952    | 3.4                            | 83                 | 25.4              | 4.10           | 178                      |
| 1953    | 20.2                           | 58                 | 14.4              | 1.11           | 116                      |
| 1954    | 4.3                            | 46                 | 22.4              | 17.10          | 167                      |
| 1955    | 21.3                           | 98                 | 12.5              | 19.10          | 180                      |
| 1956    | 5.3                            | 92                 | 4.5               | 8.10           | 185                      |
| 1957    | 16.3                           | 90                 | 29.4              | 26.9           | 158                      |
| 1958    | 12.3                           | 86                 | 30.4              | 27.10          | 156                      |
| 1959    | 8.3                            | 83                 | 24.4              | 2.10           | 157                      |
| 1960    | 23.2                           | 69                 | 17.4              | 23.10          | 150                      |
| 1961    | 1.4                            | 82                 | 3.5               | 15.11          | 158                      |
| 1962    | 28.3                           | 78                 | 17.4              | 16.11          | 153                      |
| 1963    | 8.3                            | 60                 | 19.4              | 15.10          | 149                      |
| 1964    | 3.3                            | 48                 | 23.4              | 4.11           | 156                      |
| 1965    | 5.4                            | 77                 | 26.4              | 10.10          | 162                      |
| 1966    | 27.3                           | 98                 | 10.5              | 30.9           | 163                      |
| 1967    | 8.2                            | 78                 | 18.4              | 18.10          | 146                      |
| 1968    | 21.3                           | 77                 | 29.4              | 6.10           | 186                      |
| 1969    | 7.3                            | 71                 | 24.4              | 29.10          | 167                      |
| 1970    | 18.2                           | 66                 | 29.4              | 23.9           | 175                      |
| 1971    | 26.3                           | 98                 | 4.5               | 10.10          | 176                      |
| 1972    | 15.2                           | 64                 | 29.4              | 21.10          | 163                      |
| 1973    | 23.3                           | 42                 | 16.4              | 9.10           | 188                      |
| 1974    | 22.3                           | 98                 | 30.4              | 20.10          | 178                      |
| 1975    | 25.2                           | 57                 | 25.4              | 29.10          | 179                      |
| 1976    | 27.3                           | 78                 | 5.5               | 27.9           | 165                      |
| Keskim. | 11.3                           | 67                 | 25.4              | 14.10          | 157                      |

SADEPÄIVIEN LUKUMÄÄRÄ KUUKAUSITTAIN v. 1925 - 76

| Vuosi | I  | II | III | IV | V  | VI | VII | VIII | IX | X  | XI | XII | Koko vuosi |
|-------|----|----|-----|----|----|----|-----|------|----|----|----|-----|------------|
| 1925  | 15 | 23 | 18  | 16 | 13 | 19 | 7   | 18   | 17 | 24 | 21 | 24  | 215        |
| 1926  | 19 | 14 | 16  | 14 | 13 | 11 | 8   | 11   | 16 | 18 | 24 | 20  | 184        |
| 1927  | 17 | 13 | 17  | 21 | 15 | 16 | 5   | 18   | 17 | 20 | 11 | 12  | 182        |
| 1928  | 17 | 9  | 6   | 6  | 11 | 19 | 22  | 17   | 17 | 19 | 24 | 15  | 182        |
| 1929  | 12 | 4  | 12  | 12 | 14 | 7  | 11  | 19   | 8  | 21 | 21 | 27  | 168        |
| 1930  | 21 | 7  | 13  | 10 | 9  | 10 | 8   | 17   | 15 | 15 | 19 | 12  | 156        |
| 1931  | 17 | 14 | 8   | 15 | 7  | 22 | 8   | 21   | 15 | 17 | 10 | 13  | 167        |
| 1932  | 11 | 11 | 5   | 17 | 10 | 15 | 11  | 14   | 19 | 21 | 12 | 19  | 165        |
| 1933  | 13 | 15 | 14  | 9  | 8  | 8  | 14  | 12   | 10 | 16 | 9  | 16  | 144        |
| 1934  | 15 | 15 | 12  | 10 | 17 | 14 | 15  | 8    | 10 | 25 | 19 | 14  | 174        |
| 1935  | 22 | 24 | 9   | 13 | 12 | 8  | 20  | 12   | 24 | 29 | 13 | 22  | 208        |
| 1936  | 19 | 17 | 9   | 17 | 8  | 11 | 16  | 9    | 8  | 15 | 19 | 26  | 174        |
| 1937  | 15 | 19 | 20  | 6  | 13 | 11 | 13  | 11   | 17 | 9  | 23 | 17  | 172        |
| 1938  | 24 | 13 | 18  | 15 | 18 | 17 | 10  | 7    | 10 | 20 | 20 | 15  | 187        |
| 1939  | 22 | 17 | 12  | 13 | 8  | 4  | 12  | 5    | 13 | 8  | 18 | 9   | 141        |
| 1940  | 15 | 11 | 9   | 10 | 1  | 10 | 10  | 17   | 18 | 12 | 21 | 14  | 148        |
| 1941  | 6  | 18 | 14  | 9  | 7  | 17 | 7   | 16   | 16 | 15 | 14 | 10  | 149        |
| 1942  | 10 | 10 | 10  | 4  | 9  | 9  | 17  | 11   | 17 | 22 | 16 | 18  | 153        |
| 1943  | 14 | 21 | 9   | 19 | 14 | 10 | 14  | 19   | 12 | 18 | 18 | 18  | 186        |
| 1944  | 8  | 10 | 10  | 8  | 14 | 17 | 7   | 17   | 15 | 19 | 18 | 21  | 164        |
| 1945  | 16 | 22 | 14  | 13 | 9  | 20 | 9   | 17   | 22 | 13 | 13 | 17  | 185        |
| 1946  | 12 | 11 | 14  | 16 | 11 | 15 | 7   | 12   | 18 | 10 | 16 | 15  | 157        |
| 1947  | 11 | 10 | 13  | 25 | 4  | 12 | 17  | 9    | 13 | 14 | 22 | 24  | 174        |
| 1948  | 20 | 13 | 4   | 15 | 16 | 18 | 13  | 19   | 16 | 20 | 24 | 19  | 197        |
| 1949  | 22 | 10 | 12  | 16 | 14 | 16 | 15  | 18   | 5  | 22 | 14 | 21  | 185        |
| 1950  | 5  | 15 | 12  | 13 | 10 | 17 | 17  | 6    | 17 | 17 | 20 | 15  | 164        |
| 1951  | 16 | 19 | 14  | 17 | 10 | 14 | 18  | 9    | 17 | 15 | 21 | 27  | 197        |
| 1952  | 20 | 24 | 15  | 10 | 13 | 15 | 16  | 20   | 22 | 14 | 18 | 27  | 214        |
| 1953  | 23 | 16 | 13  | 10 | 17 | 10 | 19  | 23   | 14 | 19 | 15 | 15  | 194        |
| 1954  | 20 | 12 | 16  | 12 | 6  | 21 | 17  | 17   | 23 | 22 | 23 | 26  | 215        |
| 1955  | 27 | 18 | 18  | 15 | 23 | 14 | 11  | 10   | 19 | 23 | 24 | 16  | 218        |
| 1956  | 23 | 14 | 8   | 10 | 12 | 13 | 20  | 20   | 12 | 23 | 15 | 19  | 189        |
| 1957  | 18 | 20 | 5   | 11 | 14 | 18 | 12  | 22   | 24 | 23 | 11 | 22  | 200        |
| 1958  | 16 | 17 | 8   | 10 | 14 | 12 | 15  | 13   | 10 | 17 | 17 | 18  | 167        |
| 1959  | 29 | 22 | 7   | 13 | 14 | 9  | 11  | 15   | 24 | 27 | 26 | 27  | 224        |
| 1960  | 29 | 24 | 6   | 12 | 11 | 22 | 24  | 20   | 17 | 20 | 25 | 25  | 235        |
| 1961  | 30 | 25 | 26  | 12 | 18 | 15 | 24  | 25   | 14 | 17 | 24 | 21  | 251        |
| 1962  | 28 | 20 | 19  | 18 | 17 | 23 | 18  | 23   | 20 | 20 | 21 | 23  | 250        |
| 1963  | 29 | 18 | 11  | 11 | 14 | 13 | 16  | 17   | 18 | 23 | 23 | 24  | 217        |
| 1964  | 19 | 20 | 5   | 17 | 14 | 15 | 10  | 16   | 24 | 16 | 23 | 23  | 202        |
| 1965  | 26 | 21 | 19  | 6  | 17 | 13 | 18  | 17   | 22 | 16 | 28 | 30  | 233        |
| 1966  | 20 | 24 | 26  | 18 | 10 | 11 | 21  | 14   | 25 | 26 | 25 | 27  | 247        |
| 1967  | 20 | 18 | 18  | 13 | 16 | 15 | 15  | 20   | 8  | 27 | 21 | 24  | 215        |
| 1968  | 18 | 20 | 20  | 15 | 15 | 10 | 12  | 17   | 18 | 22 | 19 | 20  | 206        |
| 1969  | 25 | 14 | 8   | 18 | 10 | 9  | 15  | 11   | 22 | 17 | 25 | 21  | 195        |
| 1970  | 21 | 19 | 18  | 20 | 9  | 5  | 21  | 15   | 18 | 16 | 19 | 23  | 204        |
| 1971  | 23 | 18 | 20  | 14 | 13 | 16 | 13  | 19   | 15 | 22 | 25 | 23  | 221        |
| 1972  | 14 | 15 | 12  | 14 | 9  | 12 | 12  | 20   | 17 | 15 | 24 | 21  | 185        |
| 1973  | 24 | 17 | 15  | 24 | 12 | 10 | 7   | 20   | 14 | 22 | 24 | 23  | 212        |
| 1974  | 16 | 21 | 10  | 8  | 9  | 20 | 22  | 17   | 17 | 26 | 20 | 30  | 216        |
| 1975  | 23 | 16 | 17  | 21 | 13 | 13 | 8   | 15   | 17 | 12 | 18 | 26  | 199        |
| 1976  | 20 | 9  | 20  | 7  | 5  | 17 | 17  | 12   | 16 | 11 | 25 | 20  | 179        |

Normaalii

1931-60 20 18 13 14 13 15 15 16 17 20 21 21 21 203

## ROUTAHAVAINNOT v. 1931 - 1970

| Vuosi          | Routaan-tumis-päivä | Mutasuo         |              | Hietamaa        |              |
|----------------|---------------------|-----------------|--------------|-----------------|--------------|
|                |                     | Vahvin routa cm | Sulamispäivä | Vahvin routa cm | Sulamispäivä |
| 1931           | 19.11.              | 32              | 25.05.       |                 |              |
| 1932           | 27.10.              | 39              | 03.06.       |                 |              |
| 1933           | 08.11.              | 30              | 31.05.       |                 |              |
| 1934           | 05.01.-35           | 40              | 12.05.       |                 |              |
| 1935           | 19.11.              | 12              | 20.05.       |                 |              |
| 1936           | 15.11.              | 16              | 28.04.       | 11              | 26.04.       |
| 1937           | 15.11.              | 24              | 26.04.       | 22              | 25.04.       |
| 1938           | 15.12.              | 16              | 05.05.       | 25              | 05.05.       |
| 1939           | 31.10.              | 22              | 02.05.       | 22              | 09.05.       |
| 1940           | 24.10.              | 10              | 04.05.       | 13              | 04.05.       |
| 1941           | 15.10.              | 40              | 05.06.       | 50              | 30.05.       |
| 1942           | 06.11.              | 35              | 22.05.       | 38              | 11.05.       |
| 1943           | 22.11.              | 20              | 29.04.       | 25              | 29.04.       |
| 1944           | 15.11.              | 7               | 01.05.       | 7               | 01.05.       |
| 1945           | 10.11.              | 13              | 06.05.       | 8               | 03.05.       |
| 1946           | 10.11.              | 15              | 13.05.       | 19              | 04.05.       |
| 1947           | 31.12.              | 38              | 16.05.       | 37              | 08.05.       |
| 1948           | 07.11.              | 10              | 18.04.       | 8               | 18.04.       |
| 1949           | 21.11.              | 10              | 28.04.       | 9               | 24.04.       |
| 1950           | 18.11.              | 14              | 21.04.       | 12              | 15.04.       |
| 1951           | 26.10.              | 10              | 29.04.       | 11              | 27.04.       |
| 1952           | 15.11.              | 5               | 25.04.       | 5               | 23.04.       |
| 1953           | 14.11.              | 7               | 24.04.       | 7               | 20.04.       |
| 1954           | 25.12.              | 35              | 20.05.       | 40              | 10.05.       |
| 1955           | 02.11.              | 2               | 05.05.       | 2               | 05.05.       |
| 1956           | 01.11.              | 12              | 12.05.       | 16              | 10.05.       |
| 1957           | 15.11.              | 8               | 10.05.       | 8               | 10.05.       |
| 1958           | 20.11.              | 21              | 15.05.       | 20              | 13.05.       |
| 1959           | 14.11.              | 10              | 17.04.       | 8               | 15.04.       |
| 1960           | 13.11.              | 17              | 03.05.       | 18              | 01.05.       |
| 1961           | 11.11.              | 14              | 07.05.       | 14              | 05.05.       |
| 1962           | 03.12.              | 10              | 02.05.       | 8               | 20.04.       |
| 1963           | 24.11.              | 27              | 10.05.       | 33              | 07.05.       |
| 1964           | 21.11.              | 16              | 06.05.       | 20              | 06.05.       |
| 1965           | 13.11.              | 12              | 28.04.       | 22              | 03.05.       |
| 1966           | 08.12.              | 19              | 10.05.       | 24              | 13.05.       |
| 1967           | 24.11.              | 12              | 17.04.       | 10              | 17.04.       |
| 1968           | 26.10.              | 21              | 06.05.       | 28              | 02.05.       |
| 1969           | 15.12.              | 31.             | 06.05.       | 22              | 06.05.       |
| 1970           | 28.10.              | 12              | 04.05.       | 11              | 04.05.       |
| Keskim. 17.11. |                     | 19              | 07.05.       | 17              | 02.05.       |

## HAIHTUMINEN ALTAASTA (mm) v. 1960 - 76

| Vuosi   | Touko | Kesä | Heinä | Elo | Syys | Touko-syys |
|---------|-------|------|-------|-----|------|------------|
| 1960    | 77    | 95   | 112   | 72  | 25   | 381        |
| 1961    | 78    | 121  | 84    | 64  | 30   | 377        |
| 1962    | 85    | 98   | 68    | 39  | 16   | 306        |
| 1963    | 112   | 112  | 105   | 59  | 33   | 421        |
| 1964    | 96    | 124  | 137   | 64  | 32   | 453        |
| 1965    | 82    | 120  | 102   | 66  | 28   | 398        |
| 1966    | 105   | 131  | 116   | 82  | 24   | 458        |
| 1967    | 92    | 114  | 121   | 80  | 38   | 445        |
| 1968    | 80    | 160  | 102   | 81  | 25   | 449        |
| 1969    | 95    | 143  | 124   | 120 | 30   | 512        |
| 1970    | 115   | 167  | 129   | 97  | 27   | 535        |
| 1971    | 92    | 120  | 156   | 82  | 33   | 483        |
| 1972    | 84    | 143  | 146   | 74  | 30   | 477        |
| 1973    | 111   | 163  | 164   | 78  | 24   | 540        |
| 1974    | 108   | 120  | 79    | 68  | 31   | 406        |
| 1975    | 123   | 135  | 156   | 103 | 45   | 562        |
| 1976    | 140   | 119  | 98    | 78  | 36   | 471        |
| Keskim. | 99    | 129  | 118   | 77  | 30   | 451        |

## KASVUKAUDEN TEHOISAT LÄMPÖSUMMAT VUOSITTAIN 1966 - 77

| Vuosi   | Huhti | Touko | Kesä | Heinä | Elo | Syys | Loka | Yhteensä |
|---------|-------|-------|------|-------|-----|------|------|----------|
| 1966    | -     | 124   | 314  | 355   | 245 | 81   | -    | 1119     |
| 1967    | -     | 131   | 238  | 332   | 342 | 157  | 59   | 1259     |
| 1968    | 3     | 82    | 323  | 257   | 287 | 93   | -    | 1045     |
| 1969    | -     | 84    | 256  | 319   | 282 | 101  | -    | 1042     |
| 1970    | -     | 105   | 320  | 355   | 271 | 122  | -    | 1173     |
| 1971    | -     | 103   | 225  | 317   | 276 | 81   | -    | 1002     |
| 1972    | -     | 90    | 336  | 439   | 345 | 105  | 15   | 1330     |
| 1973    | 5     | 141   | 333  | 409   | 261 | 34   | -    | 1183     |
| 1974    | -     | 17    | 279  | 349   | 275 | 191  | 30   | 1141     |
| 1975    | 10    | 182   | 240  | 361   | 251 | 174  | 15   | 1233     |
| 1976    | -     | 142   | 165  | 291   | 227 | 69   | -    | 894      |
| 1977    | -     | 116   | 255  | 334   | 244 | 78   | -    | 1027     |
| Keskim. | 2     | 110   | 274  | 343   | 275 | 107  | 10   | 1121     |

LIEVIVEN JA KOVIEN HALLÄÖIDEN LUKUMÄÄRÄT 10 PVÄN JAKSOINA KARJALAN KOBASEMALLIA v. 1925 - 76

| Vuosi    | TOIVOKUU |          |          |            |          |          |          |          |          |            |          |          | HEVÄKUU  |          |          |            |          |          |          |          |          |            |          |          |        |   |
|----------|----------|----------|----------|------------|----------|----------|----------|----------|----------|------------|----------|----------|----------|----------|----------|------------|----------|----------|----------|----------|----------|------------|----------|----------|--------|---|
|          | 2 m      |          |          | Maan pinta |          |          | 2 m      |          |          | Maan pinta |          |          | 2 m      |          |          | Maan pinta |          |          | 2 m      |          |          | Maan pinta |          |          |        |   |
|          | 1 - 10   | 11 - 20  | 21 - 31  | 01 - 10    | 11 - 20  | 21 - 31  | 01 - 10  | 11 - 20  | 21 - 31  | 01 - 10    | 11 - 20  | 21 - 31  | 01 - 10  | 11 - 20  | 21 - 31  | 01 - 10    | 11 - 20  | 21 - 31  | 01 - 10  | 11 - 20  | 21 - 31  | 01 - 10    | 11 - 20  | 21 - 31  |        |   |
| -0.1 - 4 | -0.1 - 4 | -0.1 - 4 | -0.1 - 4 | -0.1 - 4   | -0.1 - 4 | -0.1 - 4 | -0.1 - 4 | -0.1 - 4 | -0.1 - 4 | -0.1 - 4   | -0.1 - 4 | -0.1 - 4 | -0.1 - 4 | -0.1 - 4 | -0.1 - 4 | -0.1 - 4   | -0.1 - 4 | -0.1 - 4 | -0.1 - 4 | -0.1 - 4 | -0.1 - 4 | -0.1 - 4   | -0.1 - 4 | -0.1 - 4 |        |   |
| -3.9 -   | -3.9 -   | -3.9 -   | -3.9 -   | -3.9 -     | -3.9 -   | -3.9 -   | -3.9 -   | -3.9 -   | -3.9 -   | -3.9 -     | -3.9 -   | -3.9 -   | -3.9 -   | -3.9 -   | -3.9 -   | -3.9 -     | -3.9 -   | -3.9 -   | -3.9 -   | -3.9 -   | -3.9 -   | -3.9 -     | -3.9 -   | -3.9 -   | -3.9 - |   |
| 1925     | 1        | 0        | 0        | 0          | 3        | 1        |          |          |          | 2          | 0        | 0        | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 0        | 0        | 0          | 0        | 0        | 0      | 0 |
| 1926     | 2        | 3        | 0        | 0          | 0        | 0        |          |          |          | 0          | 0        | 0        | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 0        | 0        | 0          | 0        | 0        | 0      | 0 |
| 1927     | 6        | 0        | 4        | 3          | 2        | 0        |          |          |          | 0          | 0        | 0        | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 0        | 0        | 0          | 0        | 0        | 0      | 0 |
| 1928     | 5        | 2        | 5        | 0          | 4        | 0        | 2        | 5        | 4        | 1          | 5        | 1        | 2        | 2        | 1        | 0          | 0        | 0        | 0        | 6        | 2        | 2          | 0        | 0        | 0      |   |
| 1929     | 4        | 1        | 6        | 0          | 0        | 0        | 3        | 4        | 4        | 2          | 2        | 0        | 3        | 0        | 0        | 0          | 1        | 0        | 5        | 0        | 2        | 0          | 2        | 0        | 0      |   |
| 1930     | 5        | 3        | 3        | 1          | 1        | 0        | 4        | 5        | 2        | 2          | 3        | 0        | 3        | 0        | 0        | 0          | 0        | 0        | 4        | 1        | 0        | 0          | 0        | 1        | 0      |   |
| 1931     | 4        | 0        | 3        | 0          | 4        | 0        | 3        | 1        | 4        | 2          | 1        | 3        | 3        | 0        | 1        | 0          | 0        | 0        | 3        | 1        | 1        | 0          | 0        | 0        | 0      |   |
| 1932     | 3        | 1        | 2        | 0          | 2        | 1        | 2        | 3        | 4        | 0          | 6        | 1        | 3        | 0        | 0        | 0          | 0        | 0        | 3        | 1        | 0        | 0          | 0        | 0        | 0      |   |
| 1933     | 6        | 3        | 3        | 2          | 2        | 0        | 7        | 3        | 3        | 4          | 2        | 1        | 5        | 1        | 2        | 0          | 1        | 0        | 2        | 4        | 2        | 0          | 1        | 0        | 0      |   |
| 1934     | 3        | 0        | 1        | 0          | 3        | 0        | 3        | 1        | 1        | 1          | 3        | 0        | 3        | 0        | 0        | 0          | 0        | 0        | 4        | 0        | 2        | 2          | 0        | 0        | 0      |   |
| 1935     | 3        | 5        | 2        | 3          | 4        | 0        | 0        | 8        | 2        | 5          | 6        | 1        | 2        | 1        | 0        | 0          | 0        | 0        | 2        | 1        | 0        | 0          | 0        | 0        | 0      |   |
| 1936     | 6        | 1        | 4        | 2          | 4        | 0        | 3        | 5        | 6        | 2          | 2        | 2        | 0        | 0        | 0        | 0          | 0        | 0        | 1        | 0        | 0        | 0          | 1        | 0        | 0      |   |
| 1937     | 4        | 1        | 4        | 1          | 3        | 0        | 4        | 5        | 5        | 4          | 4        | 0        | 0        | 0        | 1        | 0          | 0        | 0        | 1        | 0        | 2        | 0          | 1        | 0        | 0      |   |
| 1938     | 6        | 1        | 1        | 0          | 2        | 0        | 4        | 5        | 6        | 0          | 4        | 1        | 1        | 0        | 1        | 0          | 0        | 0        | 1        | 0        | 2        | 1          | 0        | 0        | 1      |   |
| 1939     | 7        | 2        | 5        | 3          | 2        | 2        | 2        | 8        | 4        | 3          | 4        | 0        | 1        | 0        | 0        | 0          | 1        | 0        | 2        | 1        | 0        | 0          | 0        | 1        | 0      |   |
| 1940     | 5        | 1        | 3        | 0          | 5        | 0        | 2        | 4        | 3        | 0          | 1        | 4        | 1        | 0        | 3        | 0          | 0        | 0        | 0        | 1        | 4        | 0          | 1        | 0        | 0      |   |
| 1941     | 2        | 8        | 8        | 1          | 4        | 1        | 1        | 9        | 3        | 7          | 3        | 6        | 6        | 1        | 0        | 0          | 0        | 0        | 5        | 3        | 2        | 0          | 2        | 0        | 0      |   |
| 1942     | 5        | 5        | 2        | 3          | 1        | 0        | 0        | 10       | 3        | 4          | 4        | 0        | 2        | 0        | 3        | 0          | 0        | 0        | 0        | 3        | 2        | 4          | 3        | 0        | 0      |   |
| 1943     | 2        | 1        | 3        | 0          | 3        | 2        | 5        | 2        | 2        | 1          | 2        | 5        | 2        | 0        | 0        | 0          | 0        | 0        | 0        | 1        | 0        | 0          | 0        | 0        | 0      |   |
| 1944     | 3        | 4        | 3        | 0          | 3        | 2        | 3        | 5        | 3        | 0          | 4        | 3        | 4        | 0        | 0        | 0          | 1        | 0        | 4        | 3        | 0        | 0          | 2        | 0        | 0      |   |
| 1945     | 5        | 5        | 1        | 3          | 5        | 0        | 6        | 4        | 6        | 3          | 6        | 1        | 1        | 0        | 0        | 0          | 0        | 0        | 1        | 1        | 0        | 0          | 1        | 0        | 0      |   |
| 1946     | 4        | 1        | 3        | 2          | 4        | 1        | 2        | 5        | 4        | 2          | 2        | 6        | 1        | 0        | 0        | 0          | 0        | 0        | 3        | 0        | 1        | 0          | 0        | 0        | 0      |   |
| 1947     | 5        | 3        | 4        | 1          | 6        | 0        | 3        | 6        | 2        | 3          | 3        | 4        | 3        | 0        | 0        | 0          | 0        | 0        | 3        | 2        | 0        | 0          | 0        | 0        | 0      |   |
| 1948     | 3        | 1        | 3        | 0          | 2        | 1        | 4        | 1        | 2        | 2          | 5        | 1        | 0        | 0        | 2        | 0          | 0        | 0        | 0        | 0        | 0        | 2          | 0        | 0        | 0      |   |
| 1949     | 3        | 1        | 2        | 0          | 1        | 1        | 5        | 2        | 2        | 1          | 1        | 1        | 2        | 0        | 0        | 0          | 0        | 0        | 2        | 0        | 0        | 0          | 0        | 0        | 0      |   |
| 1950     | 2        | 1        | 3        | 1          | 4        | 1        | 5        | 0        | 3        | 1          | 5        | 0        | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 0        | 0        | 0          | 0        | 0        | 0      |   |
| 1951     | 6        | 3        | 2        | 5          | 6        | 1        | 3        | 7        | 4        | 6          | 6        | 3        | 5        | 0        | 1        | 0          | 0        | 0        | 5        | 0        | 2        | 0          | 0        | 0        | 0      |   |
| 1952     | 4        | 3        | 4        | 3          | 3        | 2        | 5        | 4        | 4        | 4          | 3        | 2        | 1        | 0        | 0        | 0          | 0        | 0        | 3        | 1        | 2        | 0          | 0        | 0        | 0      |   |
| 1953     | 2        | 6        | 5        | 0          | 4        | 0        | 1        | 8        | 4        | 1          | 6        | 1        | 0        | 0        | 0        | 0          | 0        | 0        | 1        | 0        | 0        | 0          | 0        | 0        | 0      |   |
| 1954     | 5        | 1        | 8        | 0          | 1        | 0        | 4        | 5        | 5        | 4          | 4        | 4        | 0        | 1        | 0        | 0          | 0        | 0        | 5        | 2        | 0        | 0          | 0        | 0        | 0      |   |
| 1955     | 7        | 1        | 6        | 0          | 4        | 0        | 6        | 4        | 4        | 3          | 3        | 4        | 4        | 0        | 2        | 1          | 0        | 0        | 4        | 4        | 2        | 2          | 4        | 0        | 0      |   |
| 1956     | 3        | 4        | 4        | 3          | 2        | 1        | 5        | 4        | 2        | 7          | 3        | 4        | 0        | 0        | 0        | 0          | 0        | 0        | 2        | 0        | 3        | 0          | 0        | 0        | 0      |   |
| 1957     | 4        | 0        | 2        | 0          | 6        | 2        | 6        | 1        | 2        | 0          | 4        | 4        | 2        | 0        | 1        | 0          | 2        | 0        | 2        | 1        | 2        | 0          | 4        | 0        | 0      |   |
| 1958     | 3        | 1        | 2        | 0          | 1        | 0        | 8        | 1        | 4        | 0          | 2        | 0        | 2        | 0        | 0        | 0          | 0        | 0        | 2        | 1        | 0        | 0          | 0        | 0        | 0      |   |
| 1959     | 3        | 1        | 4        | 0          | 2        | 1        | 4        | 1        | 2        | 2          | 5        | 2        | 0        | 0        | 1        | 0          | 1        | 0        | 0        | 0        | 1        | 0          | 0        | 3        | 0      |   |
| 1960     | 6        | 1        | 6        | 0          | 2        | 2        | 5        | 2        | 5        | 1          | 0        | 4        | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 0        | 0        | 0          | 0        | 0        | 0      |   |
| 1961     | 4        | 2        | 1        | 0          | 2        | 0        | 2        | 4        | 1        | 0          | 2        | 0        | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 0        | 0        | 0          | 0        | 0        | 0      |   |
| 1962     | 4        | 0        | 4        | 2          | 1        | 0        | 5        | 3        | 5        | 3          | 5        | 0        | 1        | 1        | 1        | 0          | 0        | 0        | 2        | 3        | 6        | 0          | 0        | 0        | 0      |   |
| 1963     | 3        | 0        | 2        | 0          | 1        | 0        | 2        | 1        | 4        | 0          | 4        | 0        | 2        | 0        | 0        | 0          | 0        | 0        | 6        | 1        | 3        | 0          | 0        | 0        | 0      |   |
| 1964     | 5        | 0        | 2        | 0          | 2        | 0        | 6        | 0        | 4        | 1          | 2        | 1        | 2        | 0        | 0        | 0          | 0        | 0        | 4        | 0        | 0        | 0          | 0        | 0        | 0      |   |
| 1965     | 5        | 4        | 4        | 1          | 8        | 0        | 5        | 4        | 5        | 2          | 5        | 3        | 2        | 0        | 2        | 0          | 0        | 0        | 3        | 1        | 2        | 0          | 0        | 0        | 0      |   |
| 1966     | 4        | 2        | 2        | 0          | 0        | 0        | 6        | 2        | 5        | 0          | 1        | 0        | 2        | 0        | 0        | 0          | 0        | 0        | 2        | 0        | 0        | 0          | 0        | 0        | 0      |   |
| 1967     | 2        | 1        | 2        | 0          | 0        | 0        | 3        | 2        | 3        | 0          | 4        | 0        | 0        | 0        | 0        | 0          | 0        | 0        | 1        | 0        | 0        | 0          | 0        | 0        | 0      |   |
| 1968     | 3        | 0        | 3        | 1          | 7        | 0        | 2        | 1        | 0        | 4          | 5        | 2        | 1        | 0        | 0        | 0          | 0        | 0        | 2        | 0        | 1        | 0          | 0        | 0        | 0      |   |
| 1969     | 3        | 5        | 1        | 0          | 2        | 0        | 2        | 7        | 2        | 1          | 4        | 2        | 2        | 0        | 0        | 0          | 1        | 0        | 2        | 1        | 0        | 0          | 4        | 0        | 0      |   |
| 1970     | 3        | 0        | 3        | 3          | 4        | 1        | 4        | 1        | 2        | 4          | 4        | 2        | 0        | 0        | 3        | 0          | 2        | 0        | 1        | 0        | 3        | 0          | 2        | 0        | 0      |   |
| 1971     | 3        | 3        | 1        | 0          | 6        | 0        | 2        | 6        | 3        | 0          | 4        | 1        | 1        | 0        | 1        | 0          | 0        | 0        | 0        | 1        | 1        | 0          | 3        | 0        | 0      |   |
| 1972     | 5        | 2        | 5        | 2          | 0        | 0        | 5        | 4        | 3        | 6          | 1        | 0        | 0        | 0        | 0        | 0          | 0        | 0        | 1        | 0        | 0        | 0          | 0        | 0        | 0      |   |
| 1973     | 5        | 1        | 3        | 0          | 3        | 0        | 5        | 3        | 2        | 2          | 2        | 1        | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 0        | 2        | 0          | 0        | 0        | 0      |   |
| 1974     | 1        | 6        | 6        | 2          | 2        | 3        | 2        | 5        | 5        | 4          | 3        | 5        | 1        | 0        | 0        | 0          | 0        | 0        | 3        | 1        | 0        | 0          | 0        | 0        | 0      |   |
| 1975     | 4        | 0        | 0        | 0          | 4        | 1        | 5        | 2        | 1        | 0          | 3        | 2        | 0        | 0        | 0        | 0          | 0        | 0        | 2        | 0        | 1        | 0          | 0        | 0        | 0      |   |
| 1976     | 5        | 3        | 1        | 0          | 4        | 0        | 1        | 6        | 9        | 0          | 7        | 2        | 2        | 0        | 1        | 0          | 0        | 0        | 3        | 1        | 3        | 1          | 0        | 0        | 0      |   |
| YHT.     | 204      | 104      | 161      | 48         | 151      | 27       | 177      | 189      | 168      | 105        | 170      | 87       | 83       | 6        | 30       | 1          | 11       | 0        | 111      | 42       | 60       | 8          | 33       | 0        | 0      |   |
| K.A.     | 3.9      | 2.0      | 3.1      | 0.9        | 2.9      | 0.5      | 3.6      | 3.9      | 3.4      | 2.1        | 3.5      | 1.8      | 1.6      | 0.1      | 0.6      | 0.0        | 0.2      | 0        | 2.3      | 0.9      | 1.2      | 0.2        | 0.7      | 0        | 0      |   |
| YHT.     | 308      | 209      | 178      | 366        | 273      | 257      | 89       | 31       | 11       | 153        | 68       | 33       |          |          |          |            |          |          |          |          |          |            |          |          |        |   |
| K.A.     | 6        | 4        | 3        | 7          | 6        | 5        | 2        | 1        | 0        | 3          | 1        | 0        | 0        | 0        | 0        | 0          | 0        | 0        | 1        | 0        | 1        | 0          | 0        | 1        | 0      |   |

LIEVIEN JA KOVTEEN HALLÄÖIDEN LUEKUMÄÄRÄT 10 PVÄN JÄYKSOJNA KÄRJÄLÄN FORASHMALLTA v. 1925 - 76

| Vuosi   | HEINÄKUU |         |         |         |            |         |         |         |         |         |         |         | BLOKUUN    |         |         |         |         |         |         |         |            |         |         |         |        |   |
|---------|----------|---------|---------|---------|------------|---------|---------|---------|---------|---------|---------|---------|------------|---------|---------|---------|---------|---------|---------|---------|------------|---------|---------|---------|--------|---|
|         | 2 m      |         |         |         | Maan pinta |         |         |         | 2 m     |         |         |         | Maan pinta |         |         |         | 2 m     |         |         |         | Maan pinta |         |         |         |        |   |
|         | 01 - 10  | 11 - 20 | 21 - 31 | 01 - 10 | 11 - 20    | 21 - 31 | 01 - 10 | 11 - 20 | 21 - 31 | 01 - 10 | 11 - 20 | 21 - 31 | 01 - 10    | 11 - 20 | 21 - 31 | 01 - 10 | 11 - 20 | 21 - 31 | 01 - 10 | 11 - 20 | 21 - 31    | 01 - 10 | 11 - 20 | 21 - 31 |        |   |
| -0.1 -4 | -0.1 -4  | -0.1 -4 | -0.1 -4 | -0.1 -4 | -0.1 -4    | -0.1 -4 | -0.1 -4 | -0.1 -4 | -0.1 -4 | -0.1 -4 | -0.1 -4 | -0.1 -4 | -0.1 -4    | -0.1 -4 | -0.1 -4 | -0.1 -4 | -0.1 -4 | -0.1 -4 | -0.1 -4 | -0.1 -4 | -0.1 -4    | -0.1 -4 | -0.1 -4 | -0.1 -4 |        |   |
| -3.9 -  | -3.9 -   | -3.9 -  | -3.9 -  | -3.9 -  | -3.9 -     | -3.9 -  | -3.9 -  | -3.9 -  | -3.9 -  | -3.9 -  | -3.9 -  | -3.9 -  | -3.9 -     | -3.9 -  | -3.9 -  | -3.9 -  | -3.9 -  | -3.9 -  | -3.9 -  | -3.9 -  | -3.9 -     | -3.9 -  | -3.9 -  | -3.9 -  | -3.9 - |   |
| 1925    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0      | 0 |
| 1926    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0      | 0 |
| 1927    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0      | 0 |
| 1928    | 0        | 0       | 0       | 0       | 1          | 0       | 0       | 0       | 0       | 0       | 1       | 0       | 0          | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 1      | 0 |
| 1929    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 2      | 1 |
| 1930    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 1       | 0       | 1       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0      | 0 |
| 1931    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 1      | 0 |
| 1932    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 1       | 1       | 0       | 0       | 0          | 0       | 0       | 0       | 3      | 1 |
| 1933    | 0        | 0       | 0       | 0       | 0          | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 2      | 0 |
| 1934    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 1      | 0 |
| 1935    | 0        | 0       | 2       | 0       | 0          | 0       | 0       | 0       | 2       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0      | 0 |
| 1936    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 3       | 0       | 2       | 0       | 0       | 0       | 0          | 0       | 0       | 1       | 3      | 5 |
| 1937    | 0        | 0       | 1       | 0       | 0          | 0       | 0       | 0       | 3       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 1      | 0 |
| 1938    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 1      | 0 |
| 1939    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 1      | 0 |
| 1940    | 0        | 0       | 1       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 2       | 0       | 0       | 0       | 0       | 2       | 0          | 1       | 0       | 0       | 2      | 0 |
| 1941    | 0        | 0       | 2       | 0       | 0          | 0       | 0       | 0       | 3       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 2      | 0 |
| 1942    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 1       | 0       | 1       | 0          | 0       | 0       | 0       | 1      | 0 |
| 1943    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 1       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 2      | 0 |
| 1944    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 4       | 0       | 1       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 3       | 1      | 0 |
| 1945    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0      | 0 |
| 1946    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 1      | 0 |
| 1947    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 2       | 0       | 4       | 0       | 0       | 0       | 0          | 1       | 1       | 6       | 4      |   |
| 1948    | 0        | 0       | 1       | 0       | 0          | 4       | 0       | 2       | 0       | 0       | 0       | 0       | 0          | 0       | 1       | 0       | 0       | 0       | 3       | 0       | 1          | 0       | 0       | 0       | 0      | 0 |
| 1949    | 0        | 0       | 1       | 0       | 0          | 0       | 0       | 2       | 0       | 0       | 0       | 0       | 0          | 0       | 1       | 0       | 2       | 0       | 0       | 0       | 1          | 0       | 2       | 0       | 0      | 0 |
| 1950    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 2       | 0       | 0       | 0       | 0          | 0       | 3       | 0       | 2       | 0       | 3       | 0       | 6          | 0       | 3       | 0       | 3      | 0 |
| 1951    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 2       | 0       | 0          | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0          | 0       | 0       | 0       | 1      | 0 |
| 1952    | 0        | 0       | 0       | 0       | 0          | 0       | 2       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 3       | 0       | 1       | 0       | 0          | 0       | 4       | 0       | 2      | 0 |
| 1953    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0      | 0 |
| 1954    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 3      | 0 |
| 1955    | 0        | 0       | 0       | 0       | 1          | 0       | 0       | 0       | 0       | 2       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0          | 0       | 0       | 0       | 1      | 1 |
| 1956    | 0        | 0       | 4       | 0       | 1          | 0       | 0       | 0       | 2       | 1       | 1       | 0       | 0          | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 1          | 0       | 0       | 2       | 0      | 1 |
| 1957    | 0        | 0       | 0       | 0       | 0          | 2       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 3          | 0       | 1       | 0       | 0      | 0 |
| 1958    | 1        | 0       | 0       | 0       | 0          | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 2       | 0       | 0       | 0          | 0       | 0       | 0       | 2      | 0 |
| 1959    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 1       | 0       | 0          | 1       | 0       | 0       | 1       | 0       | 2       | 0       | 1          | 0       | 1       | 0       | 1      | 0 |
| 1960    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0      | 0 |
| 1961    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 1      | 0 |
| 1962    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 1       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 2       | 0      | 1 |
| 1963    | 0        | 0       | 0       | 0       | 0          | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 2       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 2       | 0      | 0 |
| 1964    | 0        | 0       | 0       | 0       | 1          | 0       | 0       | 0       | 0       | 0       | 2       | 0       | 0          | 0       | 0       | 0       | 2       | 0       | 1       | 0       | 0          | 0       | 0       | 4       | 0      | 2 |
| 1965    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 1       | 2      | 0 |
| 1966    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 5          | 1       | 0       | 0       | 6      | 2 |
| 1967    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0      | 0 |
| 1968    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 4       | 0       | 1       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 1       | 0       | 1       | 0      | 0 |
| 1969    | 1        | 0       | 0       | 0       | 0          | 1       | 0       | 1       | 0       | 0       | 0       | 0       | 0          | 0       | 2       | 0       | 3       | 0       | 0       | 0       | 4          | 0       | 3       | 1       | 3      | 0 |
| 1970    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 1       | 0      | 3 |
| 1971    | 0        | 0       | 0       | 0       | 1          | 0       | 0       | 0       | 0       | 0       | 2       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 1      | 0 |
| 1972    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0          | 0       | 0       | 0       | 2      | 0 |
| 1973    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 1       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 2      | 1 |
| 1974    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0      | 1 |
| 1975    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0      | 0 |
| 1976    | 0        | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0          | 2       | 0       | 2       | 0      | 4 |
| YHT.    | 2        | 0       | 12      | 0       | 6          | 0       | 13      | 0       | 24      | 1       | 21      | 0       | 13         | 0       | 22      | 0       | 37      | 2       | 31      | 1       | 40         | 5       | 75      | 11      |        |   |
| K.A.    | 0.0      | 0       | 0.2     | 0       | 0.1        | 0       | 0.3     | 0       | 0.5     | 0.0     | 0.4     | 0       | 0.3        | 0       | 0.4     | 0       | 0.7     | 0.0     | 0.6     | 0.0     | 0.7        | 0.1     | 1.5     | 0.2     |        |   |
| YHT.    | 2        | 12      | 6       | 0       | 13         | 25      | 21      | 13      | 22      | 0       | 39      | 1       | 32         | 1       | 45      |         |         |         |         |         |            |         |         |         |        |   |

| Vuosi | SYYSKUU |         |         |          |          |          | Maan pinta |     |      |         |      |     |
|-------|---------|---------|---------|----------|----------|----------|------------|-----|------|---------|------|-----|
|       | 2 m     |         |         | 21 - 31  |          |          | 01 - 10    |     |      | 11 - 20 |      |     |
|       | 01 - 10 | 11 - 20 | 21 - 31 | -0.1 - 4 | -0.1 - 4 | -0.1 - 4 | -0.1       | -4  | -0.1 | -4      | -0.1 | -4  |
|       | -3.9    | -       | -3.9    | -        | -3.9     | -        | -3.9       | -   | -3.9 | -       | -3.9 | -   |
| 1925  | 0       | 0       | 1       | 0        | 1        | 0        |            |     |      |         |      |     |
| 1926  | 0       | 0       | 2       | 1        | 6        | 0        |            |     |      |         |      |     |
| 1927  | 2       | 1       | 2       | 2        | 2        | 1        |            |     |      |         |      |     |
| 1928  | 1       | 0       | 2       | 0        | 6        | 1        | 4          | 0   | 3    | 0       | 2    | 5   |
| 1929  | 2       | 0       | 3       | 1        | 5        | 0        | 3          | 0   | 1    | 4       | 4    | 2   |
| 1930  | 3       | 0       | 1       | 0        | 5        | 1        | 2          | 2   | 5    | 0       | 2    | 4   |
| 1931  | 1       | 0       | 2       | 1        | 4        | 3        | 5          | 0   | 3    | 1       | 1    | 7   |
| 1932  | 1       | 0       | 2       | 0        | 1        | 0        | 0          | 0   | 2    | 0       | 3    | 0   |
| 1933  | 3       | 0       | 2       | 0        | 0        | 1        | 1          | 3   | 2    | 1       | 0    | 1   |
| 1934  | 0       | 0       | 1       | 0        | 0        | 1        | 1          | 0   | 1    | 1       | 2    | 0   |
| 1935  | 0       | 0       | 3       | 0        | 2        | 1        | 0          | 0   | 1    | 2       | 1    | 2   |
| 1936  | 2       | 0       | 1       | 1        | 4        | 2        | 2          | 2   | 6    | 1       | 4    | 2   |
| 1937  | 2       | 0       | 0       | 0        | 2        | 0        | 2          | 0   | 1    | 0       | 3    | 1   |
| 1938  | 0       | 0       | 2       | 1        | 2        | 0        | 0          | 0   | 1    | 3       | 2    | 1   |
| 1939  | 1       | 2       | 2       | 1        | 5        | 4        | 1          | 2   | 4    | 1       | 3    | 6   |
| 1940  | 2       | 0       | 2       | 0        | 2        | 1        | 2          | 0   | 2    | 0       | 3    | 2   |
| 1941  | 3       | 1       | 2       | 0        | 3        | 4        | 2          | 3   | 7    | 1       | 0    | 7   |
| 1942  | 2       | 1       | 3       | 2        | 3        | 1        | 3          | 1   | 1    | 3       | 3    | 3   |
| 1943  | 3       | 2       | 3       | 0        | 2        | 1        | 3          | 3   | 4    | 0       | 2    | 2   |
| 1944  | 0       | 0       | 5       | 1        | 1        | 0        | 3          | 0   | 4    | 4       | 3    | 0   |
| 1945  | 0       | 0       | 1       | 0        | 6        | 1        | 5          | 0   | 5    | 0       | 3    | 3   |
| 1946  | 0       | 0       | 0       | 0        | 0        | 3        | 0          | 0   | 1    | 0       | 1    | 3   |
| 1947  | 2       | 1       | 0       | 1        | 3        | 1        | 1          | 3   | 0    | 1       | 4    | 2   |
| 1948  | 1       | 0       | 1       | 0        | 4        | 0        | 2          | 0   | 2    | 0       | 7    | 1   |
| 1949  | 0       | 0       | 2       | 0        | 3        | 0        | 0          | 0   | 2    | 0       | 5    | 0   |
| 1950  | 2       | 0       | 2       | 0        | 0        | 0        | 2          | 0   | 2    | 0       | 0    | 0   |
| 1951  | 0       | 0       | 0       | 1        | 2        | 0        | 1          | 0   | 0    | 1       | 3    | 0   |
| 1952  | 0       | 0       | 2       | 1        | 3        | 1        | 1          | 0   | 1    | 2       | 3    | 2   |
| 1953  | 1       | 1       | 4       | 4        | 3        | 3        | 2          | 2   | 2    | 8       | 1    | 5   |
| 1954  | 3       | 0       | 0       | 0        | 4        | 0        | 2          | 2   | 1    | 0       | 3    | 3   |
| 1955  | 0       | 0       | 0       | 0        | 0        | 1        | 2          | 0   | 2    | 0       | 1    | 1   |
| 1956  | 3       | 2       | 5       | 0        | 2        | 2        | 3          | 3   | 5    | 1       | 2    | 3   |
| 1957  | 1       | 0       | 0       | 0        | 6        | 0        | 1          | 0   | 0    | 0       | 7    | 0   |
| 1958  | 2       | 1       | 3       | 1        | 4        | 0        | 1          | 2   | 3    | 3       | 3    | 1   |
| 1959  | 1       | 0       | 3       | 1        | 5        | 0        | 1          | 1   | 2    | 3       | 4    | 3   |
| 1960  | 2       | 0       | 0       | 2        | 3        | 0        | 4          | 0   | 2    | 2       | 1    | 3   |
| 1961  | 1       | 1       | 6       | 0        | 3        | 1        | 3          | 2   | 2    | 4       | 3    | 3   |
| 1962  | 3       | 0       | 3       | 0        | 1        | 0        | 3          | 0   | 2    | 2       | 5    | 0   |
| 1963  | 1       | 0       | 1       | 0        | 3        | 0        | 1          | 0   | 4    | 0       | 3    | 2   |
| 1964  | 1       | 0       | 1       | 0        | 3        | 0        | 1          | 1   | 2    | 0       | 5    | 2   |
| 1965  | 0       | 0       | 1       | 1        | 0        | 0        | 0          | 0   | 1    | 2       | 2    | 0   |
| 1966  | 0       | 0       | 2       | 0        | 2        | 2        | 1          | 0   | 3    | 2       | 5    | 4   |
| 1967  | 0       | 0       | 3       | 0        | 0        | 2        | 0          | 0   | 2    | 3       | 3    | 3   |
| 1968  | 1       | 0       | 3       | 1        | 1        | 2        | 2          | 0   | 3    | 2       | 2    | 3   |
| 1969  | 0       | 0       | 1       | 0        | 4        | 0        | 3          | 0   | 2    | 1       | 1    | 3   |
| 1970  | 1       | 0       | 0       | 0        | 4        | 0        | 1          | 0   | 1    | 0       | 1    | 2   |
| 1971  | 3       | 0       | 2       | 1        | 1        | 2        | 5          | 2   | 2    | 3       | 2    | 3   |
| 1972  | 3       | 0       | 2       | 0        | 0        | 1        | 3          | 2   | 2    | 1       | 3    | 1   |
| 1973  | 2       | 0       | 3       | 2        | 0        | 6        | 3          | 0   | 3    | 5       | 1    | 6   |
| 1974  | 0       | 0       | 0       | 0        | 0        | 1        | 0          | 0   | 4    | 0       | 3    | 0   |
| 1975  | 1       | 0       | 0       | 0        | 0        | 1        | 3          | 0   | 1    | 1       | 1    | 1   |
| 1976  | 2       | 1       | 0       | 4        | 4        | 0        | 2          | 3   | 0    | 4       | 2    | 6   |
| YHT.  | 65      | 14      | 92      | 31       | 130      | 53       | 54         | 39  | 112  | 73      | 131  | 114 |
| K.A.  | 1.3     | 0.3     | 1.8     | 0.6      | 2.5      | 1.0      | 1.9        | 0.8 | 2.3  | 1.5     | 2.7  | 2.3 |
| YHT.  | 79      |         | 23      |          | 183      |          | 133        |     | 185  |         | 245  |     |
| K.A.  | 2       |         | 2       |          | 4        |          | 3          |     | 4    |         | 5    |     |

## Viimeinen kesähalla vuosittain

| Vuosi              | 2 m   | Maan pinta | Vuosi             | 2 m   | Maan pinta |
|--------------------|-------|------------|-------------------|-------|------------|
| <b>Koeasemalla</b> |       |            |                   |       |            |
| 1925               | 7.6.  | -          | 1951              | 25.6. | 17.6.      |
| 1926               | 7.5.  | -          | 1952              | 7.6.  | 15.6.      |
| 1927               | 29.5. | -          | 1953              | 31.5. | 10.6.      |
| 1928               | 19.6. | 19.6.      | 1954              | 8.6.  | 10.6.      |
| 1929               | 30.6. | 30.6.      | 1955              | 14.6. | 30.6.      |
| 1930               | 5.6.  | 29.6.      | 1956              | 29.5. | 19.6.      |
| 1931               | 11.6. | 11.6.      | 1957              | 24.6. | 28.6.      |
| 1932               | 5.6.  | 5.6.       | 1958              | 7.6.  | 8.6.       |
| 1933               | 24.6. | 24.6.      | 1959              | 30.6. | 30.6.      |
| 1934               | 16.6. | 16.6.      | 1960              | 24.5. | 24.5.      |
| 1935               | 4.6.  | 4.6.       | 1961              | 27.5. | 27.5.      |
| 1936               | 30.5. | 29.6.      | 1962              | 12.6. | 20.6.      |
| 1937               | 14.6. | 15.6.      | 1963              | 4.6.  | 19.6.      |
| 1938               | 20.6. | 23.6.      | Keskim.           | 9.6.  | 16.6.      |
| 1939               | 25.6. | 25.6.      |                   |       |            |
| 1940               | 17.6. | 23.6.      | <b>Harjulassa</b> |       |            |
| 1941               | 10.6. | 28.6.      | 1943              | 29.5. | 30.5.      |
| 1942               | 16.6. | 18.6.      | 1944              | 1.6.  | 1.6.       |
| 1943               | 8.6.  | 1.6.       | 1945              | 25.5. | 7.6.       |
| 1944               | 23.6. | 27.6.      | 1946              | -     | -          |
| 1945               | 7.6.  | 28.6.      | 1947              | 7.6.  | -          |
| 1946               | 30.5. | 3.6.       | 1948              | 19.5. | 30.5.      |
| 1947               | 4.6.  | 5.6.       | 1949              | 21.6. | 2.6.       |
| 1948               | 16.6. | 16.6.      | 1950              | 28.5. | 28.5.      |
| 1949               | 3.6.  | 3.6.       | 1951              | 25.5. | 29.5.      |
| 1950               | 29.5. | 29.5.      | 1952              | 21.5. | -          |
|                    |       |            | Keskim.           | 30.5. | 31.5.      |

HALLOJEN ESIINTYMISSUOSIEN LUKUMÄÄRÄT 10 PVÄN JAKSOTINA v. 1925 - 76

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Hallat -0..1.- -3..9 °C

| 10 pvän<br>jaksot | TOUKOKUU<br>2 m | Maan pinta | KESÄKUU<br>2 m | Maan pinta | HEINÄKUU<br>2 m | Maan pinta | ELOKUU<br>2 m | Maan pinta | SYYSKUU<br>2 m | Maan pinta |
|-------------------|-----------------|------------|----------------|------------|-----------------|------------|---------------|------------|----------------|------------|
| 01 - 10           | 52              | 49         | 38             | 40         | 2               | 8          | 8             | 14         | 35             | 42         |
| 11 - 20           | 49              | 49         | 18             | 26         | 7               | 12         | 12            | 20         | 40             | 45         |
| 21 -              | 47              | 49         | 9              | 16         | 6               | 14         | 22            | 37         | 41             | 46         |

Hallat alle -4..0 °C

| 10 pvän<br>jaksot | TOUKOKUU<br>2 m | Maan pinta | KESÄKUU<br>2 m | Maan pinta | HEINÄKUU<br>2 m | Maan pinta | ELOKUU<br>2 m | Maan pinta | SYYSKUU<br>2 m | Maan pinta |
|-------------------|-----------------|------------|----------------|------------|-----------------|------------|---------------|------------|----------------|------------|
| 01 - 10           | 41              | 47         | 5              | 26         | 0               | 0          | 0             | 1          | 11             | 18         |
| 11 - 20           | 22              | 36         | 1              | 4          | 0               | 1          | 0             | 3          | 21             | 31         |
| 21 -              | 19              | 34         | 0              | 0          | 0               | 0          | 2             | 7          | 29             | 39         |

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## LÄMPÖTILA, °C KARJALAN KOEASEMALIA v. 1943 - 1952

| Vuosi   | I     | II    | III   | IV   | V    | VI   | VII  | VIII | IX   | X    | XI   | XII   | I - XII |
|---------|-------|-------|-------|------|------|------|------|------|------|------|------|-------|---------|
| 1943    | -13.9 | -4.3  | -2.1  | 2.5  | 8.8  | 14.3 | 16.2 | 13.5 | 8.5  | 4.4  | 0.5  | -2.8  | 3.8     |
| 1944    | -6.0  | -7.0  | -5.1  | -1.2 | 7.2  | 11.6 | 15.8 | 14.3 | 8.9  | 5.1  | -1.0 | -3.4  | 3.3     |
| 1945    | -10.1 | -6.8  | -7.7  | 0.9  | 5.5  | 12.2 | 17.0 | 15.7 | 7.1  | -0.8 | -3.2 | -13.4 | 1.4     |
| 1946    | -8.7  | -13.1 | -7.8  | 1.2  | 7.0  | 14.6 | 16.7 | 14.1 | 9.3  | 0.2  | -3.1 | -3.8  | 2.2     |
| 1947    | -10.4 | -17.7 | -10.0 | 1.6  | 7.5  | 14.9 | 15.7 | 13.2 | 10.0 | 2.3  | -2.8 | -8.0  | 1.4     |
| 1948    | -11.3 | -11.1 | -5.0  | 2.9  | 9.9  | 15.4 | 14.3 | 12.0 | 9.1  | 3.5  | -0.8 | -3.6  | 2.9     |
| 1949    | -4.7  | -4.9  | -5.9  | 2.4  | 10.3 | 12.0 | 14.2 | 11.9 | 11.1 | 3.7  | -0.8 | -4.4  | 3.7     |
| 1950    | -16.9 | -8.8  | -5.0  | 4.7  | 7.7  | 13.0 | 13.7 | 12.4 | 9.3  | 4.1  | -0.9 | -5.4  | 2.3     |
| 1951    | -11.4 | -10.0 | -9.3  | 2.9  | 4.6  | 12.4 | 14.3 | 15.1 | 9.8  | 4.9  | -4.3 | -3.2  | 2.2     |
| 1952    | -5.7  | -6.4  | -12.7 | 1.5  | 5.5  | 13.3 | 15.3 | 12.2 | 7.2  | -0.4 | -3.4 | -5.8  | 1.8     |
| Keskim. | -9.9  | -9.0  | -7.1  | 1.9  | 7.4  | 13.4 | 15.3 | 13.4 | 9.0  | 2.7  | -2.0 | -5.4  | 2.5     |
| Norm.   |       |       |       |      |      |      |      |      |      |      |      |       |         |
| 1931-60 |       |       |       |      |      |      |      |      |      |      |      |       |         |
|         | -10.5 | -10.6 | -6.8  | 1.0  | 7.7  | 13.4 | 16.1 | 13.9 | 8.6  | 2.9  | -2.0 | -6.9  | 2.2     |

## LÄMPÖTILA, °C HARJULASSA v. 1943 - 1952

| Vuosi   | I     | II    | III   | IV   | V    | VI   | VII  | VIII | IX   | X    | XI   | XII   | I-XII |
|---------|-------|-------|-------|------|------|------|------|------|------|------|------|-------|-------|
| 1943    | -13.1 | -4.5  | -2.1  | 1.8  | 9.2  | 14.1 | 16.2 | 13.2 | 9.1  | 3.7  | -0.6 | -3.6  | 3.6   |
| 1944    | -6.6  | -7.6  | -4.9  | -0.9 | 7.1  | 10.8 | 16.4 | 14.3 | 9.2  | 4.4  | -2.1 | -4.4  | 3.0   |
| 1945    | -9.9  | -7.8  | -7.7  | 0.3  | 5.2  | 11.6 | 16.8 | 16.7 | 8.0  | -0.5 | -3.3 | -12.8 | 1.4   |
| 1946    | -9.0  | -12.2 | -6.1  | 0.6  | 6.6  | 13.5 | 16.5 | 14.2 | 9.6  | 0.0  | -3.6 | -4.2  | 2.2   |
| 1947    | -10.7 | -19.2 | -8.6  | 1.2  | 8.1  | 15.5 | 16.2 | 15.0 | 11.0 | 2.3  | -3.2 | -9.0  | 1.6   |
| 1948    | -11.8 | -10.2 | -4.1  | 2.8  | 10.2 | 15.3 | 15.0 | 12.4 | 9.1  | 2.8  | -1.3 | -4.1  | 3.0   |
| 1949    | -5.8  | -5.4  | -4.0  | 2.7  | 10.8 | 11.2 | 14.5 | 12.7 | 11.2 | 3.3  | -1.6 | -4.7  | 3.7   |
| 1950    | -15.5 | -8.7  | -4.6  | 4.6  | 7.8  | 12.8 | 14.1 | 14.2 | 9.2  | 4.3  | -1.6 | -5.5  | 2.6   |
| 1951    | -11.2 | -9.9  | -7.4  | 2.2  | 4.9  | 12.8 | 13.9 | 16.9 | 10.0 | 4.3  | -4.6 | -4.2  | 2.3   |
| 1952    | -6.4  | -7.2  | -11.7 | 2.2  | 5.7  | 13.1 | 15.1 | 12.5 | 7.1  | -0.4 | -3.6 | -5.2  | 1.8   |
| Keskim. | -10.0 | -9.3  | -6.1  | 1.8  | 7.6  | 13.1 | 15.5 | 14.2 | 9.4  | 2.4  | -2.6 | -5.8  | 2.5   |

## JÄMPÖTILA °C HÄRJULASSA v. 1943 – 1952

| Vuosi   | I     | II    | III   | IV   | V    | VI   | VII  | VIII | IX   | X    | XI   | XII   | Yht. |
|---------|-------|-------|-------|------|------|------|------|------|------|------|------|-------|------|
| 1943    | -13.1 | -4.5  | -2.1  | 1.8  | 9.2  | 14.1 | 16.2 | 13.2 | 9.1  | 3.7  | -0.6 | -3.6  | 3.6  |
| 1944    | -6.6  | -7.6  | -4.9  | -0.9 | 7.1  | 10.8 | 16.4 | 14.3 | 9.2  | 4.4  | -2.1 | -4.4  | 3.6  |
| 1945    | -9.9  | -7.8  | -7.7  | 0.3  | 5.2  | 11.6 | 16.8 | 16.7 | 8.0  | -0.5 | -3.3 | -12.8 | 1.4  |
| 1946    | -9.0  | -12.2 | -6.1  | 0.6  | 6.6  | 13.5 | 16.5 | 14.2 | 9.6  | 0.0  | -3.6 | -4.2  | 2.2  |
| 1947    | -10.7 | -19.2 | -8.6  | 1.2  | 8.1  | 15.5 | 16.2 | 15.0 | 11.0 | 2.3  | -3.2 | -9.0  | 1.6  |
| 1948    | -11.8 | -10.2 | -4.1  | 2.8  | 10.2 | 15.3 | 15.0 | 12.4 | 9.1  | 2.8  | -1.3 | -4.1  | 3.0  |
| 1949    | -5.8  | -5.4  | -4.0  | 2.7  | 10.8 | 11.2 | 14.5 | 12.7 | 11.2 | 3.3  | -1.6 | -4.7  | 3.7  |
| 1950    | -15.5 | -8.7  | -4.6  | 4.6  | 7.8  | 12.8 | 14.1 | 14.2 | 9.2  | 4.3  | -1.6 | -5.5  | 2.6  |
| 1951    | -11.2 | -9.9  | -7.4  | 2.2  | 4.9  | 12.8 | 13.9 | 16.9 | 10.0 | 4.3  | -4.6 | -4.2  | 2.3  |
| 1952    | -6.4  | -7.2  | -11.7 | 2.2  | 5.7  | 13.1 | 15.1 | 12.5 | 7.1  | -0.4 | -3.6 | -5.2  | 1.8  |
| Keskim. | -10.0 | -9.3  | -6.1  | 1.8  | 7.6  | 13.1 | 15.5 | 14.2 | 9.4  | 2.4  | -2.6 | -5.8  | 2.5  |

