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Database of the iodine content of soils populated with data from published literature

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BRITISH GEOLOGICAL SURVEY

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Database of the iodine content of soils populated with data from published literature

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Summary

A database of results for the iodine content of soils has been prepared for the DFID funded project looking at "Environmental Controls in Iodine Deficiency Disorders". It has been populated with literature citations of iodine results for soils and contains 2262 records. The average result for the iodine content of soils is 5.1 $\mu\text{g/g}$ (based on screened data of 2151 cited results). Given the skewed nature of the distribution of results the geometric mean of 3.0 $\mu\text{g/g}$ is a more suitable value to quote for the level of iodine in soils.

Using a classification based mainly on texture the order for levels of iodine in soil has been determined:

peat (7.0) > clay (4.3) > silt (3.0) > sand (2.2).

The figure in brackets represents the geometric mean value ($\mu\text{g/g}$ I) for the screened data.

There is no simple correlation between the iodine content of the soil and the distance of the sample site from the sea. However, in the coastal zone (0-50 km) the highest levels of iodine in soils are recorded with a large range of results (0.8 - 150 $\mu\text{g/g}$) and a geometric mean of 11.6 $\mu\text{g/g}$. Inland, at distances greater than 50 km, there is a much narrower range of results (0.4 - 14 $\mu\text{g/g}$) with a lower geometric mean value (2.6 $\mu\text{g/g}$). There is no great difference between results for soils one hundred kilometres inland compared with those samples from several thousand kilometres, although the lowest values are recorded in continental interiors. This suggests that the mechanism of direct deposition from the atmosphere (either as wet or dry deposition) is most significant in the coastal zone and further inland other mechanisms such as volatilisation from the soil-plant system must become more important.

Unconsolidated and texturally coarse parent materials appear to produce low iodine soils, as do metamorphic bedrocks.

1 Introduction

This report describes the database of results for the iodine content of soils. These results are listed in an abbreviated format in Appendix A. Results have been taken from published literature with a valuable source for much of the pre-1956 data being the Chilean Iodine Educational Bureau (1956) compilation of iodine in soils. The database has been compiled for use with a project investigating "Environmental Controls in Iodine Deficiency Disorders (IDD)". This project is funded by the UK Department for International Development (DFID) and aims to improve our knowledge of the geochemistry of iodine in the environment and to provide a resource for multidisciplinary teams engaged in reducing the risks of IDD.

A major problem in compiling analytical results from a wide range of sources is the lack of any consistent manner of reporting the data. Generally, fundamental information, such as the method of chemical analysis, is missing and the only data to work with is simply the iodine result. The structure and fields in the database are described in the next section. Dubious or doubtful data and information have not been included in the database.

The data have been interpreted to produce average results for the iodine content of soils classified by a number of parameters entered in the database (such as country, soil texture, parent material, distance from the sea). This analysis of the database is given in Section 3. Geometric means are used in preference to arithmetic means as the data tend to be highly skewed and geometric means give a better estimation of average results.

The histogram in Figure 1 shows the citations of iodine results by each decade. The most productive period for iodine analyses in soils was 1931-1940 reflecting the great interest in environmental iodine following the recognition of the effect of iodine deficiency on human health.

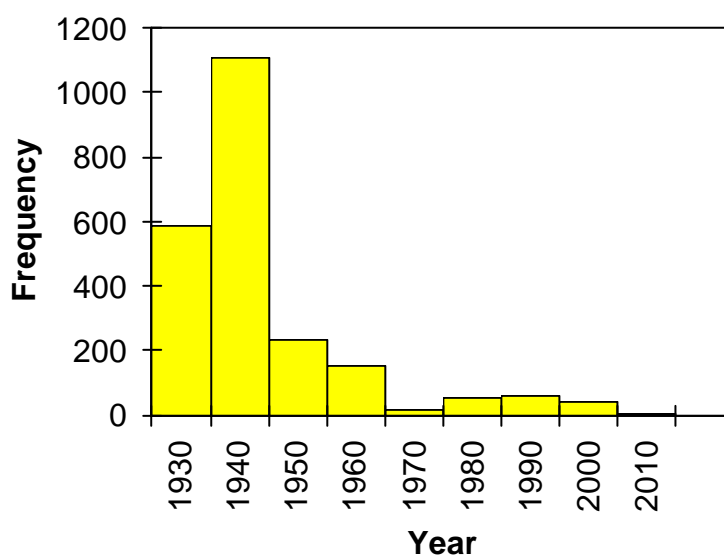


Figure 1: Histogram showing the frequency of citations for iodine results in soils classified by decade

Johnson (1980) in a study of iodine rock analyses noted that workers in the first half of the 20th century tended to report only "higher" iodine results as the methodology was not capable of the sensitivity necessary to determine the low levels of iodine found in most rock types. Levels of iodine in soil are much higher than in rocks and a similar trend to reporting low results is not seen in soil analyses. This is confirmed by Figure 2 which shows that levels of iodine being reported for soils were consistent throughout the last century although a greater range of results is recorded in the last decades of the 20th century.

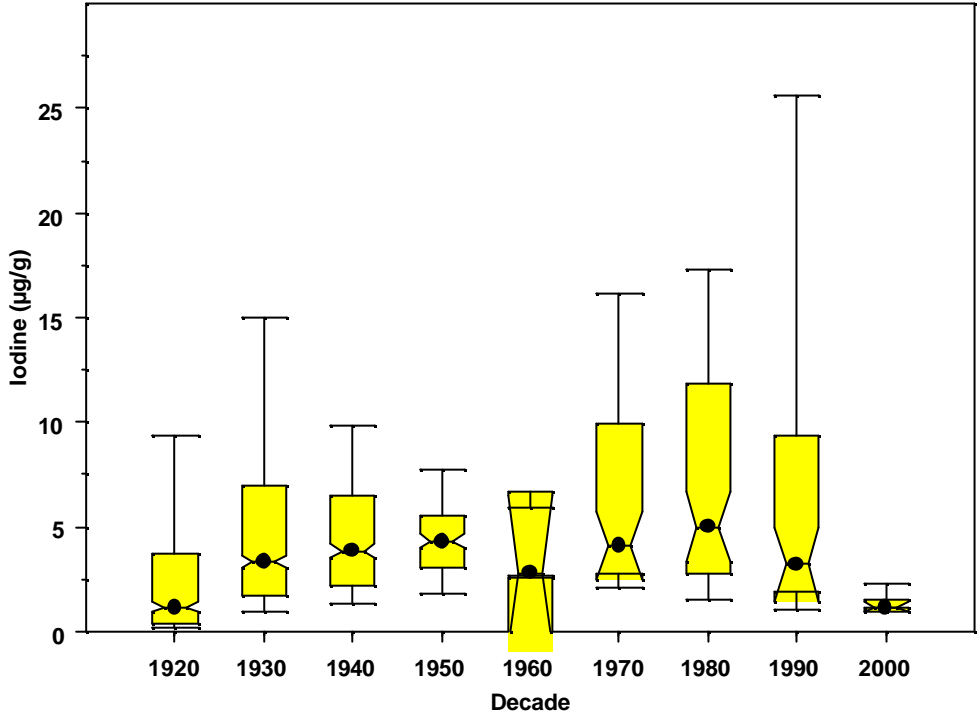


Figure 2: Box and whisker plot showing the levels of iodine reported in soils classified by decade

2 Iodine Database

2.1 DESCRIPTION

This report refers to the Microsoft Access database **IodineinSoils.mdb** last modified on 19th November 2002 which is a relational database created using MS Access 2000.

The database contains 2,262 records of iodine results for soils and the data are stored in the four relational database tables detailed below. The "*RecordNo*" is the keyfield that links the various data tables. Data stored in the **Soilreferences** table provides information about the literature reference from where the iodine result has been taken. Each reference is identified by a number that refers to the Endnote bibliographic database number assigned to each record. Endnote is the bibliographic software used by the project to store literature references and every record has a unique Endnote number. The iodine Endnote bibliography is described by Johnson (2003) and all cited references from the database are listed in full at the end of this report.

Much of the data are incomplete, particularly regarding the method of chemical analysis and a comprehensive description of the soil and its parent material. A certain amount of information can be derived from data provided. For example, in the **soilDescriptions** table a soil classification and parent material field has been added. In the **soilData** table the distance from the sea coast is taken directly from the published article in the majority of instances. Given that a location is generally given then distance from the sea could be derived making a more comprehensive data set.

2.1.1 Database tables

2.1.1.1 analyticalmethod data table

Name	Type	Size	Notes
RecordNo	Double	8	keyfield
Extraction	Text	255	method used to extract iodine from soil
Determination	Text	255	method used to determine iodine once extracted

2.1.1.2 soilreferences data table

Name	Type	Size	Notes
RecordNo	Double	8	keyfield
Min	Double	8	minimum value quoted for iodine if part of range ($\mu\text{g/g}$)
Max	Double	8	maximum value quoted for iodine if part of range ($\mu\text{g/g}$)
Number	Double	8	number of samples analysed
Average	Double	8	average result quoted ($\mu\text{g/g}$)
Geomean	Text	255	geometric mean if quoted ($\mu\text{g/g}$)
Dist. from sea (km)	Double	8	distance in kilometers from sample site to sea coast

2.1.1.3 soildescriptions data table

Name	Type	Size	Notes
RecordNo	Double	8	keyfield
Classification	Text	255	whether a surface (0-20 cm) or deeper soil
Name	Text	255	name given to the soil
soiltype	Text	50	derived field which classifies soils into a peat, sand, silt, clay or undefined
AlternateName	Text	255	alternative name given to the soil
Location	Text	255	site location
Country	Text	255	country of sample site
Continent	Text	255	continent of sample site
ParentMaterial	Text	255	soil parent material
parenttype	Text	50	derived field classifying parent material into main lithological groups

2.1.1.4 soildata data table

Name	Type	Size	Notes
RecordNo	Double	8	keyfield
Ref	Double	8	reference to the literature from where the soil result has been taken. This is the record number in the EndNote Bibliography. In this report the references cited in the soils database are listed in full at the end of this report
Citation	Text	255	indicator of primary or secondary citation. The latter means that the data were cited in the reference to another source
Year	Double	8	the year of the reference in which the data are cited
Inputter	Text	255	initials of the person who input the data (ccj = Chris Johnson; raj = Rachel Johnson)
InputDate	Date/Time	8	the date the data were input
Notes	Text	255	additional information not entered anywhere else

3 Analysis of the Database

3.1 IODINE CONTENT OF SOILS

A histogram of the 2,262 results from the database is given in Figure 3. This shows a large positive skew with nearly half the data falling within the first bin interval of 0 - 2.5 $\mu\text{g/g}$ I. All data for iodine in the database are assumed to be for total iodine results.

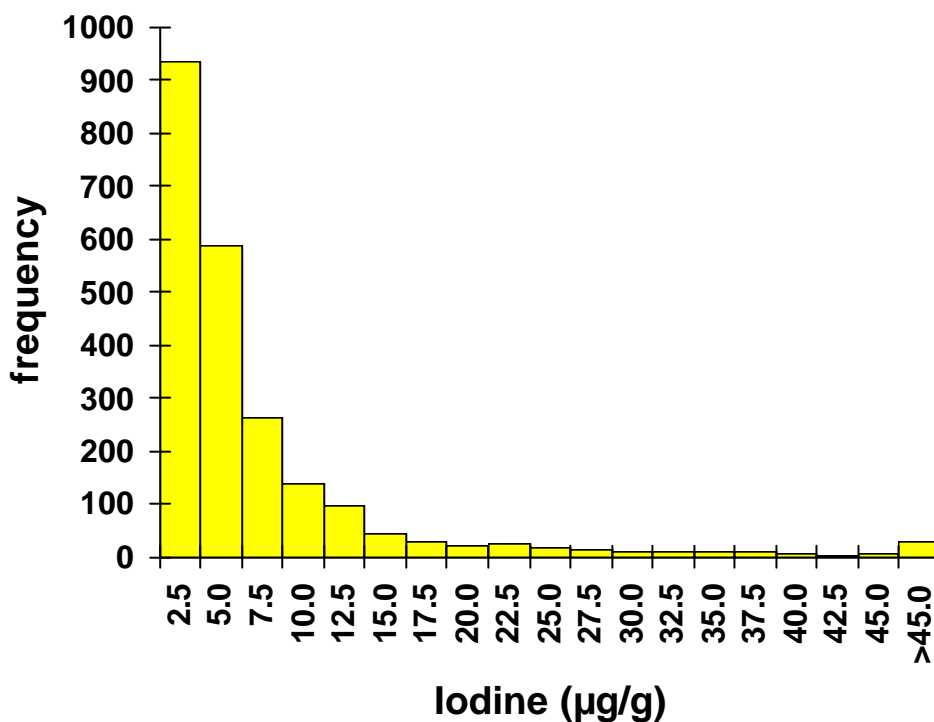


Figure 3: Histogram showing the distribution of reported iodine results for soil

There are in reality 2,241 results for "average" iodine contents as 21 records quote only a range and not an average content. The majority of values quoted are averages from a large number of soil results so the actual number of soil determinations is far greater than this number. Summary statistics for all the data are given in Table 1. This is given as both unscreened and screened data. In the latter, the top and bottom 2% of the data range were removed to allow for "abnormal" outlying results. Therefore, the screened data are the best approximation for the average iodine content of soils, namely, 5.1 $\mu\text{g/g}$. As the data are skewed, the geometric mean of 3.0 $\mu\text{g/g}$ is a better estimate of the average iodine content of soils.

	Iodine content of soil ($\mu\text{g/g}$)	
	Unscreened Data	Screened Data
<i>Mean</i>	6.03	5.09
<i>Geomean</i>	2.93	2.96
<i>Number</i>	2241	2151
<i>Minimum</i>	0.015	0.1
<i>Maximum</i>	150	72

Table 1: Summary statistics for the iodine content of soils from results in the database. For the screened data two percent of the data from the top and bottom end of the results range have been removed.

3.2 IODINE CONTENT OF SOILS CLASSIFIED BY TEXTURE

Many of the soil names reported contain textural information. On the basis of this the "soiltype" field has been created classifying the results into one of five groups: clay, silt, sand, peat or undefined. More than half the results have inadequate soil description and are therefore classified as undefined. However, this still leaves a large number of samples on which to investigate iodine content based on soil texture.

In order to be consistent in the classification, soil classes have been based on the terminology used by Brady and Weil (1999) and shown in Figure 4.

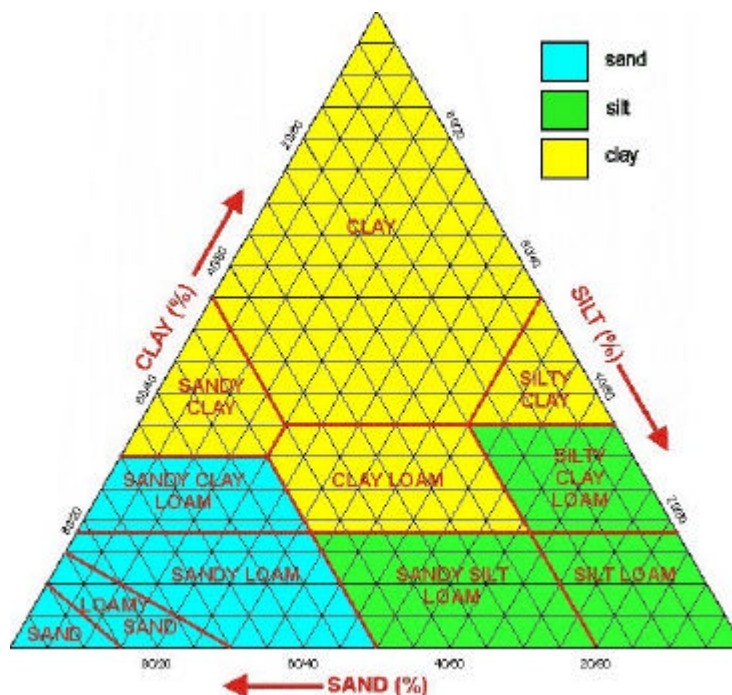


Figure 4: Figure showing classification of soil by texture

Soils referred to as loess have been classified as silt and marls as clays. If the soil name included the term peat, the soil has been classified as a peat. Summary statistics for the different classes of soil are given in Table 2. The screened data, i.e. 2% of the results at the highest and lowest end of the range removed, is represented graphically with box and whisker plots in Figure 5. In the box and whisker plot the whiskers represent the 10th and 90th percentiles, the top and bottom of the box the 25th and 75th percentile and the line in the box the median value.

Soil Class	Unscreened data (µg/g I)						Screened data (µg/g I)					
	no.	mean	geo-mean	median	min.	max.	no.	mean	geo-mean	median	min.	max.
<i>Peat</i>	41	8.83	6.63	7.25	0.2	28	39	8.56	6.99	7.25	1.32	22
<i>Silt</i>	107	8.15	2.99	4.00	0.1	135	103	6.35	2.98	4.00	0.19	72
<i>Clay</i>	394	7.27	4.26	4.65	0.1	68.74	378	6.56	4.34	4.65	0.2	33.29
<i>Sand</i>	467	4.11	2.21	2.45	0.08	58	449	3.44	2.22	2.45	0.1	27.5
<i>Undefined</i>	1232	6.08	2.81	3.14	0.015	150	1182	5.02	2.84	3.14	0.14	36.29
<i>All data</i>	2241	6.03	2.93	3.15	0.015	150	2151	5.09	2.96	3.15	0.1	72

Table 2: Summary statistics for unscreened and screened data grouped by soil class

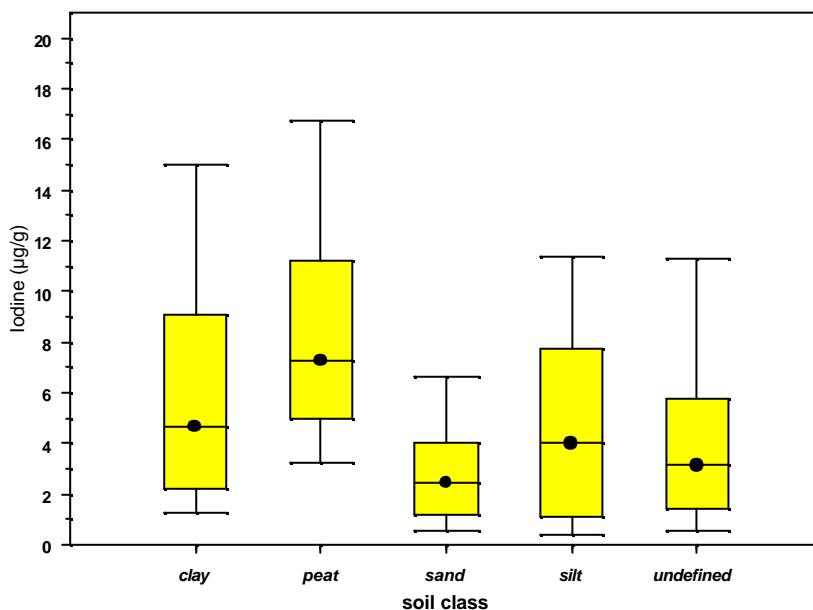
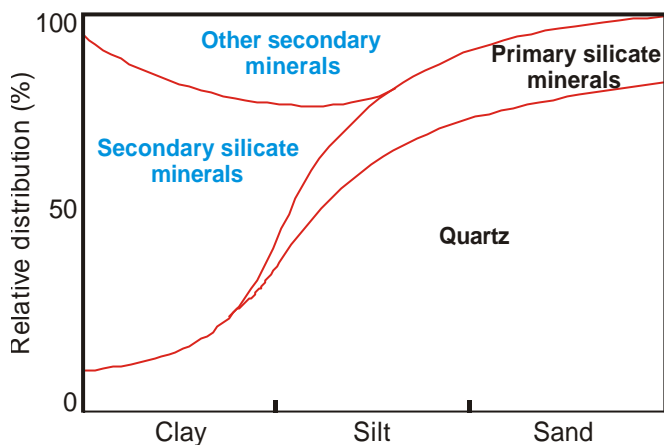


Figure 5: Levels of iodine in soil classified by soil texture

Classifying the soil on the basis of its texture with a special class for peats shows that the iodine content of soils is in the following order (mean values for screened data in brackets in µg/g I):

peat (7.0) > clay (4.3) > silt (3.0) > sand (2.2).

Figure 6: Figure showing the relationship between textural classification and mineralogical composition of a soil



It is interesting to interpret these levels of iodine on the basis of a textural classification in the context of the mineralogical composition of soils. Brady and Weil (1999) demonstrate (in Figure 6), the general relationship between particle size and the kind of minerals present. Quartz dominates the sand and coarse silt fraction whereas secondary silicate minerals (such as clays) dominate the clay fraction. Levels of iodine in quartz are low around 0.3 $\mu\text{g/g}$ (Fuge and Johnson, 1986) and secondary silicate and other secondary minerals are probably not much higher (there is very little data available). However, in the case of the secondary

minerals there is evidence that such minerals have a capacity to retain iodine in the soil by either adsorption or absorption (Hamid and Warkentin, 1967, Sakuma and Marzukee, 1995, and Whitehead, 1979). It is no surprise that the peat soils have the highest levels of iodine as many investigations have shown that organic matter has the ability to fix iodine in soils (Fuge and Johnson, 1986).

3.3 SOIL IODINE AND DISTANCE FROM THE SEA

The majority of results quoted in the literature for iodine in soils do not give an indication of how far the soil sample site was from the coastline. Input of iodine from the atmosphere, either as wet or dry precipitation, is considered to be a major part of the iodine geochemical cycle and much of this iodine must be derived from the oceans (Fuge and Johnson, 1986). The proximity of the soil site to the sea is therefore of great interest. The 75 records with distance from the sea information are plotted in Figure 7. This shows some very high results at locations near the sea and a generally higher than average level of iodine in the coastal zone 0 - 50 km. However, results in this coastal zone are not exclusively high and there are low levels of iodine also recorded for some soils. Moving well in land the average iodine content of soils does drop to low levels around 1 $\mu\text{g/g}$ and there is a much narrower range of results. Figure 7 does not include samples collected from the continental interior of Xinjiang province, China (Fordyce et al, 2003) so as not to compress the x axis. These samples were from at least 2,500 km from the nearest sea coast and had average iodine contents of 0.89 to 1.1 $\mu\text{g/g}$.

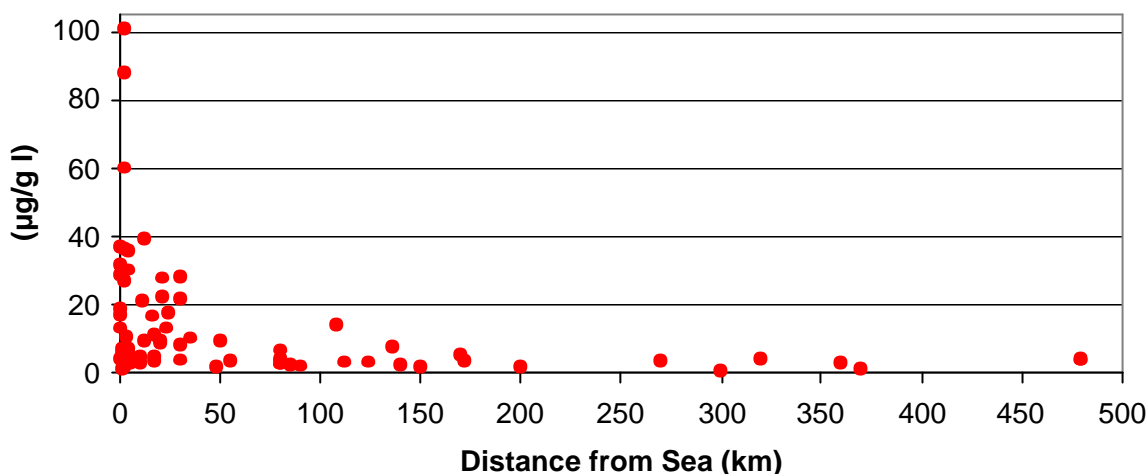


Figure 7: Levels of iodine in soils plotted against their distance from the sea coast

There is no significant correlation between the iodine content of the soil and the distance from the sea coast (Pearson correlation coefficient = -0.18) but clearly soils in the coastal zone are subjected to a greater input of iodine. The level of iodine in the soil will depend on the ability of the soil to fix the iodine. A sample of beach sand collected within 200m of the sea at Agadir, Morocco contained only 0.59 µg/g I. This sample was collected shortly after heavy rain and any salt or spray deposits had been washed from the sample. The prevailing wind direction is also of crucial importance to any comprehensive discussion of this topic, information that is lacking from most reports.

Fuge (1996) (for Wales, UK) and Johnson et al (2002) (for Anti Atlas Mts, Morocco) both report higher ranges of soil results in coastal areas declining to much lower and narrower ranges inland. It must be concluded that in coastal zones (0-50 km from the coast) there is a much higher input of iodine from the atmosphere that is directly related to migration from seawater to the land. There is a relatively rapid decline of iodine in soils moving away from the coast and soils say in central England (< 4 µg/g) do not have markedly different levels from soils of continental interiors e.g. Missouri 1.26 (µg/g) (Fuge,1996). Evidence suggests that inland the mechanism for iodine transport via the atmosphere will be different and revolatilation from the soil-plant system to the atmosphere is possibly the most important factor in determining the soil's iodine status (Fuge, 1996).

3.4 SOIL IODINE AND PARENT MATERIAL

Out of the 2,241 data records 643 could be classified according to parent material. Table 3 shows summary statistics for the soil parent material classification and this is presented graphically in Figure 8.

Parent Material	Number	Minimum	Maximum	Mean	Geomean
<i>Alluvium</i>	157	0.1	56.5	3.56	1.28
<i>Carbonates</i>	117	0.1	22.6	4.38	3.05
<i>Other Sedimentary</i>	157	0.06	38.7	4.58	2.00
<i>Igneous Extrusive</i>	114	0.1	72	14.16	6.31
<i>Igneous Intrusive</i>	21	0.4	83.2	10.66	3.75
<i>Metamorphic</i>	41	0.1	21	3.37	1.15
<i>Peat</i>	4	11.6	68.4	32.9	26.52
<i>Sand</i>	32	0.1	9.8	1.56	0.71

Table 3: Summary of statistics for soil iodine contents classified by parent material (in $\mu\text{g/g}$)

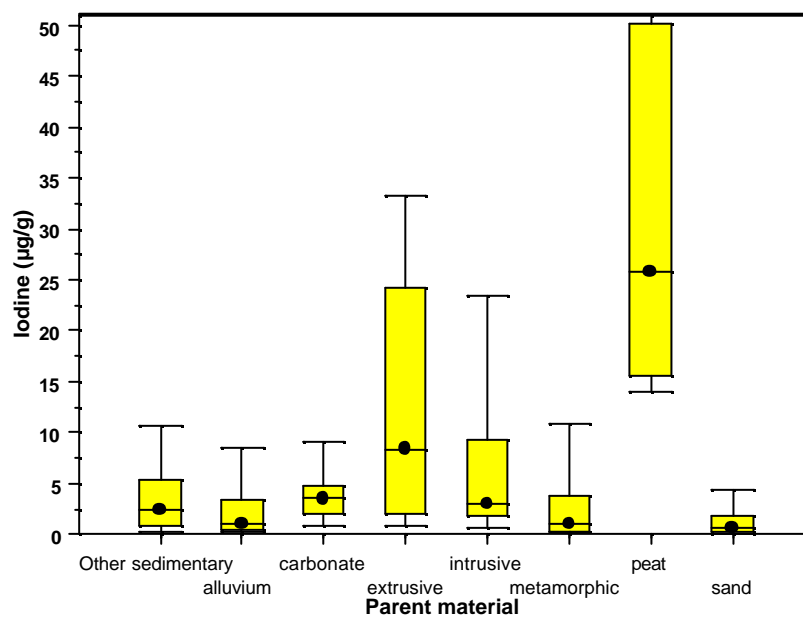


Figure 8: Box and whisker plot of soil iodine plotted against parent material

Recent and texturally coarse materials such as sand and alluvium appear to be associated with the lowest levels of iodine, as do soils formed on metamorphic rocks. The four soils described with peat as a parent material are exceptionally high in iodine. Soils formed on carbonate rocks (chalk, limestone and dolomite) do have higher geometric means than those soils formed on other sedimentary rock types (3.05 and 2.00 $\mu\text{g/g}$ I respectively). However, for these two classes the relative means are reversed if the arithmetic mean is considered. This results from a large number of high outlying values associated with sedimentary rocks, probably from sites in coastal zones. Soils associated with igneous rocks are surprisingly high in iodine especially the extrusive rocks. Again the statistics are probably been distorted by a large number of results from coastal areas where values tend to be fall within a greater range.

Appendix 1 : Listing of database

The following pages are an abbreviated listing of the soils database. Iodine concentrations are given in $\mu\text{g/g}$.

The reference number (ref) refers to the citation in which the result is quoted. These references are listed in citation number order in the list of references at the end of this report.

Ref	Min	Max	No.	Av.	Year	Location	Country	Ref	Min	Max	No.	Av.	Year	Location	Country
177				44.9	1999	Rokkasho/Aomori	Japan	177			2	8.3	1999	Imaichi/Tochigi	Japan
177				32.6	1999	Mito/Ibaraki	Japan	177			3	47.9	1999	Imaichi/Tochigi	Japan
177				2.08	1999	Nakakanbaragun/Nii	Japan	177				1.46	1999	Gamougun/Shiga	Japan
177				1.32	1999	Kumagaya/Saitama	Japan	177				0.92	1999	Kashihara/Nara	Japan
177				26	1999	Shiojiri/Nagano	Japan	177				24.2	1999	Kimotukigun/Kagosh	Japan
177				2.76	1999	Koriyama/Fukushima	Japan	177				33	1999	Kawasaki/Kanagawa	Japan
177				1.64	1999	Oomagari/Akita	Japan	177				11.3	1999	Toyohashi/Aichi	Japan
177				11.8	1999	Takayama/Gifu	Japan	177				0.63	1999	Kumagaya/Saitama	Japan
177				1.93	1999	Mito/Ibaraki	Japan	177				2.8	1999	Fukuyama/Hiroshim	Japan
179	0.8	1	2	0.9	1999	Waldhof	Germany	179	2.7	3.6	2	3.2	1999	Penzberg	Germany
179	1	1	2	1	1999	Horgenzell	Germany	179			1	2.8	1999	Schauinsland	Germany
179				0.4	1999	Tann	Germany	179	3.1	5.1	2	4.1	1999	Laichingen	Germany
179	1	6.5	4	3.8	1999	Brotjackriegel	Germany	179	1.3	1.8	2	1.6	1999	Tarmstedt	Germany
179	1.9	1.9	2	1.9	1999	Wissingen	Germany	179	2	2.7	4	2.3	1999	Deuselbach	Germany
179	2.6	4.6	2	3.6	1999	Bad Mergentheim	Germany	179	0.9	1.6	2	1.3	1999	Westerland/Humtrup	Germany
219	5.6	30	7	13.9	1996	Precambrian Shield	Canada	259	1.2	4.9		3.2	1994	Fyldon Common	UK
259	5.4	14.9		9.2	1994	Barton Pits	UK	259	2.9	13.8		8.6	1994	Great Coombeshead	UK
259	7.9	17.5		11.2	1994	Five Barrows north	UK	259	2.2	6.9		4.4	1994	Five Barrows south	UK
305				4.7	1984	?		305				0.32	1984	?	
305				3.7	1984	?		305				5.2	1984	?	
305				3.9	1984	?		305				4.6	1984	?	
305				5.5	1984	?		305				20.4	1984	?	
305				22.7	1984	?		305				1.1	1984	?	
305				2.8	1984	?		305				6.4	1984	?	
305				1.9	1984	?		453	2.58	9.54	11	6.58	1989	North Derbyshire	UK
453	3.18	3.73	3	3.44	1989	North Derbyshire	UK	453	2.32	8.53	7	4.16	1989	North Derbyshire	UK
453				2.48	1989	North Derbyshire	UK	453	1.88	3.04	5	2.42	1989	North Derbyshire	UK
466				11	1976	Armenia (cited in	USSR	466				3.1	1976	Armenia (cited in	USSR
466				3.6	1976	Armenia (cited in	USSR	466				3.9	1976	Armenia (cited in	USSR
466				4.3	1976	Armenia (cited in	USSR	466				6.4	1976	Armenia (cited in	USSR
466				3.5	1976	Armenia (cited in	USSR	466				2.6	1976	Armenia (cited in	USSR
468	1.5	3.9			1979	Shap (cited in #529)	UK	469				12.24	1935	Westphalia,	Germany
469				11.36	1935	Westphalia,	Germany	469				0.88	1935	Westphalia, Iburg	Germany
469				3.2	1935	Westphalia,	Germany	469	2.315	2.36	2	2.338	1935	Westphalia,	Germany
469	1.95	4.01	2	2.98	1935	Westphalia,	Germany	469	4	29.5	6	16.355	1935	Westphalia,	Germany
469				4.5	1935	Westphalia, Hellweg	Germany	469	2.57	3.86	2	3.215	1935	Westphalia,	Germany
469	4.79	7.78	2	6.285	1935	Westphalia, Heesen	Germany	469				3.6	1935	Westphalia, Herford	Germany
469				4.9	1935	Westphalia,	Germany	469				19.2	1935	Westphalia,	Germany
469	4.555	4.675	2	4.615	1935	Westphalia,	Germany	469				3.05	1935	Westphalia, Siegen	Germany
469	3.52	3.65	2	3.585	1935	Westphalia, Heggen	Germany	469	3.35	4.98	2	4.165	1935	Westphalia, Hövel	Germany
469				2.05	1935	Westphalia,	Germany	469	2.18	2.375	2	2.278	1935	Westphalia,	Germany
469				2.4	1935	Westphalia, Wrexen	Germany	469	2.8	3.175	2	2.988	1935	Westphalia, Wüllen	Germany
469				14.25	1935	Westphalia, Lienen	Germany	469				3.5	1935	Westphalia,	Germany
469	3.2	4.07	2	3.635	1935	Westphalia,	Germany	469	3.31	3.91	2	3.61	1935	Westphalia,	Germany
469	3.11	4.44	2	3.775	1935	Westphalia, Bimberg	Germany	469	3.69	4.08	2	3.885	1935	Westphalia,	Germany
469	1.505	1.79	2	1.648	1935	Westphalia, Börste	Germany	469	4.03	5.54	2	4.785	1935	Westphalia,	Germany
469	2.83	3.425	2	3.128	1935	Westphalia,	Germany	469				10.45	1935	Westphalia, Hagen	Germany
469	2.98	3.185	2	3.083	1935	Westphalia, Geist	Germany	469	2.6	3.8	2	3.2	1935	Westphalia,	Germany
469	5.5	12.88	8	8.725	1935	Westphalia,	Germany	469				5.93	1935	Westphalia,	Germany
469	1.73	3.09	6	2.23	1935	Westphalia, Deuz	Germany	469	3.225	3.87	2	3.548	1935	Westphalia, Brakel	Germany
469	2.945	3.23	2	3.088	1935	Westphalia,	Germany	469				4.8	1935	Westphalia,	Germany
469	1.46	1.655	2	1.558	1935	Westphalia, Lintel	Germany	469				3.85	1935	Westphalia,	Germany
469				9.21	1935	Westphalia,	Germany	469	4.39	4.56	2	4.475	1935	Westphalia,	Germany
469	2.95	5.23	2	4.09	1935	Westphalia,	Germany	469	2.15	3.05	2	2.6	1935	Westphalia,	Germany
469	4.27	4.39	2	4.33	1935	Westphalia,	Germany	469	7.696	9.09	2	8.525	1935	Westphalia,	Germany
469				5.52	1935	Westphalia,	Germany	469				6.4	1935	Westphalia, Olpe	Germany
469	2.515	2.57	2	2.543	1935	Westphalia, Rütten	Germany	469	3.54	3.96	2	3.75	1935	Westphalia,	Germany
469				1.88	1935	Westphalia, Sprakel	Germany	469	2.43	5.98	6	3.76	1935	Westphalia, Sprake	Germany
469				8.575	1935	Westphalia,	Germany	469	3.06	3.14	2	3.1	1935	Westphalia,	Germany
469				7.12	1935	Westphalia, Uentrop	Germany	469	2.06	2.8	2	2.43	1935	Westphalia,	Germany
469				5.76	1935	Westphalia, Olpe	Germany	471				0.35	1930	Nuremberg,	Germany
471				0.4	1930	Nuremberg,	Germany	471	0.76	0.86	2	0.81	1930	Zoppot	Germany
471	8.5	13.3	4	10.2	1930	Schleswig-Holstien	Germany	471				1.7	1930	Rostock, Polchow	Germany
471				1.3	1930	Rostock, Polchow	Germany	471				0.8	1930	Rostock, Biestow	Germany
471				0.6	1930	Rostock, Biestow	Germany	471				3.5	1930	Nuremberg, Gut	Germany
471				3.5	1930	Nuremberg, Gut	Germany	482	2.289	2.693	4	2.491	1929	Försterei Forstgarten	Germany
482				1.212	1929	Fauerbach	Germany	482				3.231	1929	Hausen	Germany
482				1.345	1929	Breungeshain	Germany	482				1.345	1929	Daxweiler	Germany
482				8.344	1929	Daxweiler	Germany	482				1.539	1929	holzhausen bei	Germany
482				1.144	1929	Fauerbach	Germany	482	0.807	0.807	2	0.807	1929	Fauerbach	Germany
482	3.904	5.924	5	4.981	1929	Hausen	Germany	482				2.693	1929	Münster	Germany
482				4.846	1929	Seibersbach	Germany	482				1.75	1929	Hausen	Germany
482				3.231	1929	Hausen	Germany	482				2.424	1929	Hausen	Germany
482				2.698	1929	Hausen	Germany	482				1.592	1929	Hausen	Germany
482				1.481	1929	Fauerbach	Germany	506				1.32	1924	Eggishorn	Switzerland
506				1	1924	Binn	Switzerland	506				3.15	1924	Gaispfad	Switzerland
506				5.95	1924	Kinzigpasshöhe	Switzerland	506				1.7	1924	Schächental	Switzerland
506				2.2	1924	Locality unspecified	Switzerland	506				1.57	1924	Berne	Switzerland
506				6.4	1924	La Chaux-de-Fonds	Switzerland	515	4.8	12.45		8.2	1959	Valencia	Spain
515	3.4	5.6	6	4.7	1959	Coastal Valencia	Spain	521	0.82	2.36			1975	N. Tartar (cited in	USSR
526				3.7	1970	Moldavia (cited in	USSR	526				3	1970	Moldavia (cited in	USSR
526	1.5	3.2			1970	Moldavia (cited in	USSR	526				2	1970	Moldavia (cited in	USSR
526				0.85	1970	Moldavia (cited in	USSR	529			1	3.5	1980	Arreau, S France	France
529			44	16.5	1980	Coed-y-Brenin	UK	529			1	1.5	1980	Bosost, N Spain	Spain
529			1	2	1980	Toulouse	France	529			1	5	1980	Solihull, central	UK

Ref	Min	Max	No.	Av.	Year	Location	Country	Ref	Min	Max	No.	Av.	Year	Location	Country
529			1	4	1980	Zarauz, NW Spain	Spain	529			1	13	1980	Ingleton, N England	UK
529	2	51	64	10	1980	Van, near Llanidloes	UK	529			1	3	1980	St Julia, Andorra	Andorra
529			1	3	1980	Selles, NE Spain	Spain	529			1	14	1980	Ager, NE Spain	Spain
529	2.5	149	80	22	1980	East of Glog Fach,	UK	529			1	17.5	1980	Ingleborough, N	UK
529			1	150	1980	Roscoff, NW France	France	537	5.4	16.6	13	9	1976	Coastal NW Norway	Norway
537	2.8	7.6	16	4.4	1976	Eastern Norway	Norway	546				2.17	1941	South Carolina:	USA
546				6.41	1941	South Carolina:	USA	546				5.17	1941	South Carolina:	USA
546				9.26	1941	South Carolina:	USA	546				6.02	1941	South Carolina:	USA
546				9.62	1941	South Carolina:	USA	546				6.06	1941	South Carolina:	USA
546				3.09	1941	South Carolina:	USA	546				3.85	1941	South Carolina:	USA
546				1.83	1941	South Carolina:	USA	546				7.78	1941	South Carolina:	USA
546				4.03	1941	South Carolina:	USA	546				4.55	1941	South Carolina:	USA
546				4.17	1941	South Carolina:	USA	546				4.63	1941	South Carolina:	USA
546				5.16	1941	South Carolina:	USA	546				2.14	1941	South Carolina:	USA
546				1.65	1941	South Carolina:	USA	546				1.5	1941	South Carolina:	USA
546				2.35	1941	South Carolina:	USA	546				5.68	1941	South Carolina:	USA
546				2.13	1941	South Carolina:	USA	546				2.38	1941	South Carolina:	USA
546				8.93	1941	South Carolina:	USA	546				8.62	1941	South Carolina:	USA
546				7.14	1941	South Carolina:	USA	546				14.29	1941	South Carolina:	USA
546				10.91	1941	South Carolina:	USA	546				9.26	1941	South Carolina:	USA
546				11.36	1941	South Carolina:	USA	546				40	1941	South Carolina:	USA
546				4.9	1941	South Carolina:	USA	546				4.17	1941	South Carolina:	USA
546				3.85	1941	South Carolina:	USA	546				8.13	1941	South Carolina:	USA
546				7.69	1941	South Carolina:	USA	546				9.35	1941	South Carolina:	USA
546				6.06	1941	South Carolina:	USA	546				4.95	1941	South Carolina:	USA
546				8.55	1941	South Carolina:	USA	546				8.13	1941	South Carolina:	USA
546				8.2	1941	South Carolina:	USA	546				6.03	1941	South Carolina:	USA
546				5.43	1941	South Carolina:	USA	546				2.19	1941	South Carolina:	USA
546				4.43	1941	South Carolina:	USA	546				4.27	1941	South Carolina:	USA
546				6.15	1941	South Carolina:	USA	546				6.99	1941	South Carolina:	USA
546				3.75	1941	South Carolina:	USA	546				2.14	1941	South Carolina:	USA
546				9.52	1941	South Carolina:	USA	546				7.14	1941	South Carolina:	USA
546				3.12	1941	South Carolina:	USA	546				9.17	1941	South Carolina:	USA
546				9.09	1941	South Carolina:	USA	546				3.39	1941	South Carolina:	USA
546				3.21	1941	South Carolina:	USA	546				8.06	1941	South Carolina:	USA
546				3.38	1941	South Carolina:	USA	546				6.25	1941	South Carolina:	USA
546				9.26	1941	South Carolina:	USA	546				10.4	1941	South Carolina:	USA
546				11.63	1941	South Carolina:	USA	546				11.9	1941	South Carolina:	USA
546				7.94	1941	South Carolina:	USA	546				13.51	1941	South Carolina:	USA
546				14.49	1941	South Carolina:	USA	546				7.44	1941	South Carolina:	USA
546				9.09	1941	South Carolina:	USA	546				9.57	1941	South Carolina:	USA
546				11.9	1941	South Carolina:	USA	551				12.1	1951	New Jersey:	USA
551				2.3	1951	New Jersey:	USA	551				8.2	1951	New Jersey:	USA
551				5.2	1951	New Jersey:	USA	551				1.7	1951	New Jersey:	USA
551				3.9	1951	New Jersey:	USA	551				4.6	1951	New Jersey:	USA
551				5.4	1951	New Jersey:	USA	551				5	1951	New Jersey:	USA
551				2.8	1951	New Jersey: Coastal	USA	551				4.5	1951	New Jersey:	USA
551				5.6	1951	New Jersey:	USA	551				2.4	1951	New Jersey:	USA
551				6.7	1951	New Jersey: Coastal	USA	551				8	1951	New Jersey:	US
551				7.1	1951	New Jersey: Coastal	USA	551				4.7	1951	New Jersey: Coastal	USA
551				4.5	1951	New Jersey:	USA	551				3.1	1951	New Jersey:	USA
551				3.6	1951	New Jersey: Coastal	USA	551				2.2	1951	New Jersey: Coastal	USA
551				1.7	1951	New Jersey: Coastal	USA	551				4	1951	New Jersey: Coastal	USA
551				1.5	1951	New Jersey: Coastal	USA	551				10.1	1951	New Jersey:	USA
551				4.8	1951	New Jersey: Coastal	USA	551				4.9	1951	New Jersey:	USA
551				3.7	1951	New Jersey:	USA	551				1.2	1951	New Jersey:	USA
551				6.2	1951	New Jersey:	USA	551				1.6	1951	New Jersey: Coastal	USA
557				6.7	1969	Sverdlovsk (cited in	USSR	557				2.8	1969	Sverdlovsk (cited in	USSR
557				2.6	1969	Sverdlovsk (cited in	USSR	564				2.1	1970	Armenia (cited in	USSR
564				3.8	1970	Armenia (cited in	USSR	565				2.16	1970	Central Yakutia	USSR
565				5.18	1970	Central Yakutia	USSR	565				1.83	1970	Central Yakutia	USSR
565				2.43	1970	Central Yakutia	USSR	565				1.32	1970	Central Yakutia	USSR
565				0.73	1970	Central Yakutia	USSR	565				3.15	1970	Central Yakutia	USSR
570	0.4	3.2			1969	Zeya-Bureya Plain	USSR	573				17.563	1927	Danzig	Poland
573				20.85	1927	Franzensbad	Czechoslovakia	573				23.48	1927	Vesuvius area	Italy
573				16.83	1927	Normandy	France	573	18.2	19.27		18.5	1927	Rimin & Trieste	Italy
587				24.3	1973	Arthur Rickwood,	UK	587				17.2	1973	Terrington, Norfolk	UK
587				4.8	1973	Auchincruive, Ayr	UK	587				13.3	1973	Logie Newton,	UK
587				2.8	1973	Mossend, Ayr	UK	587				4.8	1973	Aldroughty, Moray	UK
587				11.6	1973	High Mowthorpe,	UK	587				36.9	1973	Mains of Pitullie,	UK
587				10.1	1973	Easthill, Kincardine	UK	587				15.7	1973	Craigiebuckler,	UK
587				2.8	1973	Gleadthorpe,	UK	587				6.2	1973	Great House,	UK
587				2.7	1973	Rosemaund,	UK	587				3.4	1973	Hurley, Berkshire	UK
587				9.7	1973	Bridgets, Hampshire	UK	587				2.7	1973	Redesdale,	UK
587				3.4	1973	Fairfield, Lancashire	UK	587				27.6	1973	Pwllpeiran,	UK
587				7.5	1973	Drayton,	UK	587				21.1	1973	Trawscoed,	UK
587				5.5	1973	Boxwood,	UK	587				12.2	1973	Rosewarne,	UK
587				10.8	1973	Liscombe, Somerset	UK	588				2.2	1974	Sonning, Berkshire	UK
590	0.5	98.2	132	9.2	1979		UK	591				2.8	1981	SK 448301 (UK Grid)	UK
591				22.6	1981	SU 505828 (UK Grid)	UK	591				0.5	1981	SU 853443 (UK Grid)	UK
591				1.5	1981	SU 813377 (UK Grid)	UK	591				2.7	1981	SU 810830 (UK Grid)	UK
591				1.6	1981	SO 566477 (UK Grid)	UK	591				11.8	1981	SP 000062 (UK Grid)	UK
591				5.1	1981	SK 333976 (UK Grid)	UK	591				7.4	1981	SN 277501 (UK Grid)	UK
591				20.4	1981	NY 374039 (UK)	UK	591				15.8	1981	NY 345269 (UK)	UK
591				11.6	1981	NY 294064 (UK)	UK	591				4	1981	SP 649126 (UK Grid)	UK

Ref	Min	Max	No.	Av.	Year	Location	Country	Ref	Min	Max	No.	Av.	Year	Location	Country
591				2.1	1981	SP 964358 (UK	UK	591				6.9	1981	TL 122134 (UK	UK
591				6.3	1981	SP 164553 (UK	UK	591				12.7	1981	SN 676733 (UK	UK
591				2.5	1981	SK 593698 (UK	UK	591				13.3	1981	SE 892691 (UK	UK
591				5.2	1981	SK 448301 (UK	GridUK	591				4.4	1981	SU 813377 (UK	GridUK
591				5.6	1981	SU 822824 (UK	UK	591				5.5	1981	SK 333976 (UK	GridUK
591				4.8	1981	SO 712183 (UK	GridUK	591				4.9	1981	SE 218820 (UK	GridUK
591				12.3	1981	SS 883332 (UK	GridUK	591				5.2	1981	SP 376095 (UK	GridUK
591				5.4	1981	SP 376095 (UK	GridUK	591				13.3	1981	SP 000062 (UK	GridUK
591				12.2	1981	SN 277501 (UK	GridUK	591				12.1	1981	NY 374039 (UK	UK
591				3.7	1981	SU 853443 (UK	GridUK	591				4.7	1981	SO 712183 (UK	GridUK
591				8.7	1981	SE 218820 (UK	GridUK	591				3.6	1981	SP 649126 (UK	GridUK
591				2.5	1981	SU 810830 (UK	GridUK	591				1.2	1981	SU 505828 (UK	GridUK
591				19.5	1981	NY 294064 (UK	UK	591				8.3	1981	NY 345269 (UK	UK
606	0.04	6.6	60	1.9	1996	Angunawala	Sri Lanka	606			32	9.4	1996	Wariyapola (Dry	Sri Lanka
694	0.12	5.6	92	1.26	1987	Missouri	USA	726	0.2	1.5	2	0.85	1930	Otago: Makarora	New Zealand
726	0.6	1.5	3	0.93	1930	Otago: Wanaka	New Zealand	726				2.8	1930	Canterbury:	New Zealand
762	0.16	6.9	23	1.25	1984	Kalinin, Vladimir	Russia	918				9.1	1931	Tonga Islands	Pacific Islands
918				36	1931	Savaii: Satupaitea	Pacific Islands	918				2.4	1931	Perth	Australia
918				7.2	1931	Savaii: Tuasivi	Pacific Islands	918				6.1	1931	Snares Island	Pacific Islands
918				3.8	1931	Blowening East	Australia	918				9.6	1931	Bunbury	Australia
918				0.7	1931	Bunbury	Australia	918				1.5	1931	Coolac	Australia
918				2.4	1931	Freemantle	Australia	918				0.8	1931	Northam	Australia
918				4.1	1931	Upolu: Vailele	Pacific Islands	918	9	19.8	2	14.4	1931	Southland: Stewart	New Zealand
918				5.3	1931	Kalgorlie	Australia	918				37	1931	British Solomon	Pacific Islands
918			11	6.9	1931	Otago: Seacliff	New Zealand	918			8	2.5	1931	Canterbury:	New Zealand
918				12	1931	Auckland Island	Pacific Islands	918				19.4	1931	British Solomon	Pacific Islands
918				10.3	1931	Campbell Islands	Pacific Islands	918				19.8	1931	Enderby Island	Pacific Islands
918				25.2	1931	Goat Island	Pacific Islands	918				27	1931	Savaii: Fagamalo	Pacific Islands
918				35.1	1931	Savaii: Samatau	Pacific Islands	918				72	1931	Savaii: Sataua	Pacific Islands
918				2.4	1931	Otago: Waitai	New Zealand	918				10.2	1931	Rarotonga	Pacific Islands
918	12	14.4	2	13.2	1931	Antipodes Islands	Pacific Islands	918				9.8	1931	Otago: Oamaru	New Zealand
918				0.3	1931	Canterbury:	New Zealand	930				0.4	1925	Auckland: Kiripaka	New Zealand
930				0.4	1925	Auckland: Herekino	New Zealand	930	1.6	2	3	1.9	1925	Auckland: Hikimutu	New Zealand
930				0.8	1925	Auckland: Hikurangi	New Zealand	930				0.2	1925	Auckland: Hikutaia	New Zealand
930				0.4	1925	Auckland: Hukerenui	New Zealand	930				0.4	1925	Auckland: Kaeo	New Zealand
930				9.6	1925	Auckland: Kauri	New Zealand	930				0.2	1925	Auckland: Kohukohu	New Zealand
930				0.6	1925	Auckland:	New Zealand	930				2	1925	Auckland: Kopaki	New Zealand
930				5.2	1925	Auckland:	New Zealand	930				0.2	1925	Auckland: Kaiataia	New Zealand
930	4.6	6.2	3	5.7	1925	Auckland:	New Zealand	930				0.1	1925	Auckland: Hamilton	New Zealand
930	1	7.4	3	4	1925	Auckland: Hamilton	New Zealand	930				33	1925	Auckland:	New Zealand
930	1.6	2	2	1.8	1925	Auckland: Gisborne	New Zealand	930				0.4	1925	Auckland: Frankton	New Zealand
930				0.2	1925	Auckland: Dargavile	New Zealand	930				1.2	1925	Auckland:	New Zealand
930				2.3	1925	Auckland: Belmont	New Zealand	930				1	1925	Auckland: Awanui	New Zealand
930				25.6	1925	Auckland: Auckland	New Zealand	930	3.4	6.2	2	4.8	1925	Auckland: Auckland	New Zealand
930				0.4	1925	Auckland:	New Zealand	930				0.2	1925	Auckland: Fairbarns	New Zealand
930				10.4	1925	Chatham Islands	Pacific Islands	930				0.4	1925	Wellington:	New Zealand
930				0.8	1925	Wellington:	New Zealand	930				2.4	1925	Wellington:	New Zealand
930				13.2	1925	Wellington:	New Zealand	930				6.2	1925	Wellington:	New Zealand
930				0.6	1925	Wellington:	New Zealand	930				0.4	1925	Westland: Hokitika	New Zealand
930				0.2	1925	Westland: Hokitika	New Zealand	930				11	1925	Wellington: Shannon	New Zealand
930				0.7	1925	Westland: Moana	New Zealand	930				1	1925	Wellington:	New Zealand
930	4	18	3	12.3	1925	Otago: Dunedin	New Zealand	930	0.8	2.2	5	1.5	1925	Otago: Dunedin	New Zealand
930	1.2	3.6	17	2.1	1925	Otago: Dunedin	New Zealand	930				1.6	1925	Otago: Dunedin	New Zealand
930				1.8	1925	Otago: Dunedin	New Zealand	930				1.4	1925	Otago: Dunedin	New Zealand
930				3	1925	Otago: Dunedin	New Zealand	930	1.1	2	3	1.5	1925	Otago: Dunedin	New Zealand
930				4.8	1925	Westland: Kumara	New Zealand	930				1	1925	Wellington: Marton	New Zealand
930				0.1	1925	Otago: Queenstown	New Zealand	930	0.8	1	2	0.9	1925	Wellington: Feilding	New Zealand
930				1	1925	Wellington: Feilding	New Zealand	930				0.6	1925	Wellington: Foxton	New Zealand
930				0.4	1925	Wellington:	New Zealand	930	13	18.2	6	15.2	1925	Wellington: Levin	New Zealand
930				7.8	1925	Wellington: Levin	New Zealand	930				1.2	1925	Wellington: Lower	New Zealand
930	0	1	12	0.5	1925	Wellington:	New Zealand	930				1	1925	Wellington:	New Zealand
930				0.6	1925	Southland: Stewart	New Zealand	930				0.6	1925	Wellington:	New Zealand
930				8	1925	Wellington: Oharui	New Zealand	930				4.2	1925	Wellington: Oharui	New Zealand
930				0.4	1925	Wellington: Oharui	New Zealand	930				2.6	1925	Wellington: Oharui	New Zealand
930				0.4	1925	Auckland: Dargavile	New Zealand	930				0.8	1925	Wellington: Pahiatua	New Zealand
930				22.4	1925	Auckland: Mercer	New Zealand	930	0.6	8.2	4	3.4	1925	Wellington: Makara	New Zealand
930				2.4	1925	Otago: Oamaru	New Zealand	930				0.1	1925	Otago: Manuhirika	New Zealand
930				0.2	1925	Otago: Matau	New Zealand	930				0.1	1925	Otago: Matau	New Zealand
930				0.6	1925	Otago: Maungatua	New Zealand	930	0.8	1	4	0.85	1925	Otago: Milton	New Zealand
930	1.4	1.6	2	1.5	1925	Otago: Mosgiel	New Zealand	930				0.7	1925	Otago: Mosgiel	New Zealand
930				0.6	1925	Otago: Mosgiel	New Zealand	930				1.2	1925	Otago: Dunedin	New Zealand
930	0.9	1	2	0.95	1925	Otago: North Clutha	New Zealand	930	0.2	0.2	2	0.2	1925	Otago: Lake Hawea	New Zealand
930	0.2	2.4	6	1.1	1925	Otago: Oamaru	New Zealand	930	0.4	1	2	0.7	1925	Otago: Oamaru	New Zealand
930				3.4	1925	Otago: Oamaru	New Zealand	930				0.2	1925	Otago: Omarama	New Zealand
930				0.6	1925	Otago: Omarama	New Zealand	930	0.2	0.6	3	0.4	1925	Otago: Outram	New Zealand
930				0.8	1925	Otago: Palmerston	New Zealand	930	1.5	18.2	11	6.6	1925	Otago: Dunedin	New Zealand
930				0.6	1925	Otago: Naseby	New Zealand	930				0.1	1925	Otago: Henley	New Zealand
930				4.6	1925	Wellington:	New Zealand	930	0.8	1	2	0.9	1925	Otago: Dunedin	New Zealand
930	1.4	1.4	2	1.4	1925	Otago: Dunedin	New Zealand	930	2.4	3.8	2	3.1	1925	Otago: Dunedin	New Zealand
930				0.2	1925	Otago: Dunedin	New Zealand	930				2.6	1925	Otago: Dunedin	New Zealand
930				1	1925	Otago: Duntroon	New Zealand	930	0.4	0.5	2	0.45	1925	Otago: Duntroon	New Zealand
930				1	1925	Otago: Maheno	New Zealand	930				0.4	1925	Otago: Henley	New Zealand
930				0.4	1925	Otago: Lovell's Flat	New Zealand	930				0.4	1925	Otago: Inch Clutha	New Zealand
930				1.5	1925	Otago: Kaitangata	New Zealand	930	0.4	1	4	0.7	1925	Otago: Kaitangata	New Zealand
930	0.2	0.4	4	0.275	1925	Otago: Kaitangata	New Zealand	930				1.4	1925	Otago: Kakanui	New Zealand

Ref	Min	Max	No.	Av.	Year	Location	Country	Ref	Min	Max	No.	Av.	Year	Location	Country
930	0.2	0.8	2	0.5	1925	Otago: Kokonga	New Zealand	930	2.4	2.5	2	2.45	1925	Otago: Kurow	New Zealand
930	4.5	5	2	4.75	1925	Otago: Kurow	New Zealand	930				1.6	1925	Otago: Dunedin	New Zealand
930			2	0.1	1925	Otago: Duntroon	New Zealand	930				0.4	1925	Nelson: Motueka	New Zealand
930				2	1925	Wellington: Epuni	New Zealand	930				0.6	1925	Nelson: Stoke	New Zealand
930				2	1925	Nelson: Richmond	New Zealand	930				3.8	1925	Nelson: Reefton	New Zealand
930				0.4	1925	Nelson: Ngakawai	New Zealand	930	0.4	1.8	2	1.1	1925	Nelson: Nelson	New Zealand
930				1	1925	Nelson: Nelson	New Zealand	930				3.8	1925	Nelson: Nelson	New Zealand
930				1	1925	Nelson: Wakefield	New Zealand	930				1.2	1925	Nelson: Moutere	New Zealand
930				0.4	1925	Nelson: Westport	New Zealand	930				4.2	1925	Nelson: Motueka	New Zealand
930				0.3	1925	Nelson: Granity	New Zealand	930				0.2	1925	Nelson: Collingwood	New Zealand
930				0.6	1925	Marlborough:	New Zealand	930				0.1	1925	Marlborough:	New Zealand
930				0.2	1925	Marlborough:	New Zealand	930				0.4	1925	Marlborough:	New Zealand
930				8.6	1925	Hawke's Bay:	New Zealand	930				3.8	1925	Nelson: Nelson	New Zealand
930	0.2	0.4	2	0.3	1925	Otago: Berwick	New Zealand	930				3.4	1925	Otago: Dunedin	New Zealand
930				3.6	1925	Otago: Dunedin	New Zealand	930	1	2.4	3	1.5	1925	Otago: Dunedin	New Zealand
930			2	0.1	1925	Otago: Dunedin	New Zealand	930	0.4	0.7	2	0.55	1925	Otago: Dunback	New Zealand
930	0	0.4	9	0.11	1925	Otago: Cromwell	New Zealand	930				0.4	1925	Otago: Cromwell	New Zealand
930	0.2	0.4	2	0.3	1925	Otago: Clyde	New Zealand	930				0.4	1925	Nelson: Stole	New Zealand
930				0.1	1925	Otago: Chatto Creek	New Zealand	930				0.6	1925	Hawke's Bay:	New Zealand
930	0.2	0.4	2	0.3	1925	Otago: Beaumont	New Zealand	930				1	1925	Otago: Beaumont	New Zealand
930	0	1	7	0.526	1925	Otago: Balclutha	New Zealand	930	0	1	5	0.28	1925	Otago: Balclutha	New Zealand
930	1	1	2	1	1925	Otago: Balclutha	New Zealand	930				1.4	1925	Otago: Allanton	New Zealand
930	0	0.7	9	0.32	1925	Otago: Alexandra	New Zealand	930				2.4	1925	Otago: Alexandra	New Zealand
930				0.4	1925	Otago: Clyde	New Zealand	930				36	1925	Taranaki: New	New Zealand
930	0.6	1	2	0.8	1925	Canterbury:	New Zealand	930				5	1925	Southland: Taramoa	New Zealand
930	1.6	9.6	2	5.6	1925	Southland: Taramoa	New Zealand	930				5	1925	Southland: Taramoa	New Zealand
930			2	0.1	1925	Southland: Tuatapere	New Zealand	930	0.6	0.6	2	0.6	1925	Southland: Winton	New Zealand
930				27	1925	Taranaki: Clifton	New Zealand	930	6.8	7.2	2	7	1925	Taranaki: Hawera	New Zealand
930				1.6	1925	Hawke's Bay:	New Zealand	930				9	1925	Taranaki: Inglewood	New Zealand
930				0.5	1925	Canterbury: Kaiapoi	New Zealand	930				28	1925	Taranaki: Omeho	New Zealand
930				4.8	1925	Taranaki: Opunake	New Zealand	930	1	2.4	2	1.7	1925	Taranaki: Patea	New Zealand
930				3.6	1925	Taranaki: Stratford	New Zealand	930				26.8	1925	Taranaki: Waitara	New Zealand
930				1.6	1925	Wellington:	New Zealand	930	1.2	2.6	2	1.9	1925	Wellington:	New Zealand
930				0.4	1925	Wellington:	New Zealand	930				0.1	1925	Canterbury:	New Zealand
930				0.4	1925	Canterbury: Temuka	New Zealand	930				0.2	1925	Otago: Riccarton	New Zealand
930				0.4	1925	Hawke's Bay:	New Zealand	930				0.4	1925	Hawke's Bay:	New Zealand
930	2.4	2.6	2	2.5	1925	Hawke's Bay:	New Zealand	930				0.4	1925	Canterbury:	New Zealand
930				0.1	1925	Canterbury:	New Zealand	930				0.6	1925	Canterbury: Waikari	New Zealand
930				0.4	1925	Canterbury: Timaru	New Zealand	930				0.1	1925	Canterbury: Gleniti	New Zealand
930				0.5	1925	Canterbury: Te	New Zealand	930				1.5	1925	Canterbury:	New Zealand
930				0.2	1925	Canterbury:	New Zealand	930				0.6	1925	Canterbury:	New Zealand
930				0.1	1925	Canterbury: Rakaia	New Zealand	930	0.6	1	3	0.9	1925	Canterbury: Pigeon	New Zealand
930				0.2	1925	Canterbury: Mona	New Zealand	930				0.9	1925	Canterbury:	New Zealand
930				0.6	1925	Canterbury: Little	New Zealand	930				0.3	1925	Canterbury:	New Zealand
930				1.2	1925	Hawke's Bay:	New Zealand	930	0.4	0.4	2	0.4	1925	Canterbury: Timaru	New Zealand
930				1	1925	Auckland: Thornton	New Zealand	930				0.2	1925	Auckland: Waikohu	New Zealand
930				0.6	1925	Auckland: Waihi	New Zealand	930				0.4	1925	Auckland: Victoria	New Zealand
930				1.4	1925	Auckland: Totara	New Zealand	930				0.6	1925	Auckland: Tokaanu	New Zealand
930				7.4	1925	Auckland: Titoki	New Zealand	930				0.4	1925	Auckland: Thornton	New Zealand
930				0.1	1925	Canterbury:	New Zealand	930	0.8	1	2	0.9	1925	Auckland: Thornton	New Zealand
930				4.6	1925	Auckland: Waitomo	New Zealand	930				4.2	1925	Auckland: Thames	New Zealand
930				0.6	1925	Auckland: Thames	New Zealand	930				1	1925	Auckland: Te Puke	New Zealand
930				0.8	1925	Auckland: Te Kuiti	New Zealand	930				10.6	1925	Auckland: Te	New Zealand
930				8.6	1925	Auckland: Te	New Zealand	930				5.2	1925	Auckland: Tauranga	New Zealand
930				0.6	1925	Auckland: Thornton	New Zealand	930				0.2	1925	Canterbury:	New Zealand
930	0.4	1	2	0.7	1925	Otago: Palmerston	New Zealand	930				1.1	1925	Canterbury:	New Zealand
930	1.3	1.5	4	1.4	1925	Canterbury:	New Zealand	930				1.2	1925	Canterbury:	New Zealand
930				0.4	1925	Canterbury: Cave	New Zealand	930				1	1925	Canterbury:	New Zealand
930				0.4	1925	Canterbury: Barry's	New Zealand	930				0.1	1925	Auckland:	New Zealand
930				0.4	1925	Canterbury:	New Zealand	930				1.2	1925	Auckland: Waipu	New Zealand
930				0.6	1925	Canterbury: Albury	New Zealand	930				0.6	1925	Auckland:	New Zealand
930	0.6	1	2	0.8	1925	Auckland:	New Zealand	930				70	1925	Auckland:	New Zealand
930				0.4	1925	Auckland:	New Zealand	930				0.2	1925	Auckland: Wellsford	New Zealand
930				2.8	1925	Auckland: Waitomo	New Zealand	930				0.4	1925	Auckland:	New Zealand
930	12	13.4	2	12.7	1925	Southland: Stewart	New Zealand	930				8.4	1925	Auckland: Ohoeawai	New Zealand
930				0.8	1925	Auckland: Taupo	New Zealand	930				1	1925	Auckland:	New Zealand
930				19	1925	Auckland: Peria	New Zealand	930				0.4	1925	Auckland: Paparoa	New Zealand
930				1	1925	Auckland: Paeroa	New Zealand	930				0.2	1925	Auckland: Oue	New Zealand
930				3.6	1925	Auckland: Orongo	New Zealand	930				30.4	1925	Auckland: Poroti	New Zealand
930	6.8	56	4	21.7	1925	Auckland: Onehunga	New Zealand	930				8	1925	Rarotonga	Pacific Islands
930				0.6	1925	Auckland: Ngata	New Zealand	930				12.4	1925	Auckland:	New Zealand
930				0.4	1925	Auckland:	New Zealand	930				0.8	1925	Auckland:	New Zealand
930	6.8	9.8	2	8.3	1925	Auckland:	New Zealand	930				16	1925	Auckland:	New Zealand
930				1.2	1925	Auckland: Mongonui	New Zealand	930				0.1	1925	Auckland: Mercury	New Zealand
930				0.4	1925	Auckland: Opua	New Zealand	930				0.6	1925	Auckland: Riponui	New Zealand
930	0.5	1.7	7	1	1925	Canterbury:	New Zealand	930				1	1925	Auckland:	New Zealand
930				2	1925	Auckland:	New Zealand	930				3.4	1925	Auckland: Takapuna	New Zealand
930				0.2	1925	Auckland: Takahue	New Zealand	930	8.2	8.8	2	8.5	1925	Auckland:	New Zealand
930				0.4	1925	Auckland: Ruatahuna	New Zealand	930				9.2	1925	Auckland: Poroporo	New Zealand
930	0.8	1.6	3	1.3	1925	Auckland: Rotorua	New Zealand	930				0.8	1925	Auckland:	New Zealand
930				0.1	1925	Auckland: Rawene	New Zealand	930				0.2	1925	Auckland: Rangitahi	New Zealand
930				0.3	1925	Auckland: Putrauru	New Zealand	930				6.8	1925	Auckland: Putrauru	New Zealand
930				0.1	1925	Auckland: Putrauru	New Zealand	930				0.2	1925	Auckland: Purua	New Zealand
930				24	1925	Auckland: Pukehoe	New Zealand	930				0.6	1925	Auckland: Porrt	New Zealand
930				0.2	1925	Auckland: Ruatahuna	New Zealand	930	0.2	0.6	4	0.4	1925	Southland: Gore	New Zealand

Ref	Min	Max	No.	Av.	Year	Location	Country	Ref	Min	Max	No.	Av.	Year	Location	Country
930	0.2	0.4	2	0.3	1925	Southland: Ryal Bush	New Zealand	930	0.6	5.8	4	3.25	1925	Southland: Ryal Bush	New Zealand
930				0.2	1925	Southland: Otautau	New Zealand	930	1	1.6	2	1.3	1925	Southland: Otautau	New Zealand
930				0.2	1925	Southland: Oravia	New Zealand	930				1.2	1925	Southland: Mossburn	New Zealand
930	0.4	0.8	2	0.6	1925	Southland:	New Zealand	930				2	1925	Southland:	New Zealand
930				2.2	1925	Southland:	New Zealand	930	0	0.2	2	0.1	1925	Canterbury:	New Zealand
930				0.4	1925	Southland:	New Zealand	930	0.8	2.4	2	1.6	1925	Southland:	New Zealand
930				1.4	1925	Southland: Bluff	New Zealand	930				0.7	1925	Otago: Silverstream	New Zealand
930				0.2	1925	Otago: Silverstream	New Zealand	930				0.7	1925	Otago: Silverstream	New Zealand
930	0.2	0.4	3	0.3	1925	Otago: Stirling	New Zealand	930				10.6	1925	Southland:	New Zealand
930				1.4	1925	Otago: Water Race	New Zealand	930	0.4	0.6	2	0.5	1925	Southland: Dipton	New Zealand
930				4.2	1925	Southland: Bluff	New Zealand	930				0.4	1925	Southland: Bluff	New Zealand
930				0.4	1925	Southland: Caroline	New Zealand	930				1	1925	Southland: Castle	New Zealand
930	1	1	2	1	1925	Southland: Centre	New Zealand	930				0.5	1925	Otago: Taieri	New Zealand
931	6.4	12		10	1959	Russian Plain (cited Russia)		931	0.3	6.7		2.6	1959	Russian Plain (cited Russia)	
931	0.56	4.4		2.5	1959	Russian Plain (cited Russia)		931	2	9.8		5.3	1959	Russian Plain (cited Russia)	
931	1.3	3.8		2.5	1959	Russian Plain (cited Russia)		931	0.2	42		12	1959	Russian Plain (cited Russia)	
932				0.29	1930	Bad Hall	Austria	933				7.433	1926	Vesuvius area	Italy
933	0.65	0.72			1926	Prague	Czechoslovakia	933	0.33	0.42			1926	Prague	Czechoslovakia
933	0.11	0.26			1926	Prague	Czechoslovakia	933	0.67	0.83			1926	Planan District	Czechoslovakia
933	1.2	1.5			1926	Prague	Czechoslovakia	934				4.7	1935	Jánovice	Czechoslovakia
934				0.7	1935	Jihlava	Czechoslovakia	934				4.8	1935	Kociánov	Czechoslovakia
934				2	1935	Kolín	Czechoslovakia	934				2.2	1935	Kolín	Czechoslovakia
934				5.5	1935	Hulin	Czechoslovakia	934				4.6	1935	Kostelec & Jicín	Czechoslovakia
934				6.2	1935	Kostelec & Jicín	Czechoslovakia	934				4.6	1935	Kostomlaty	Czechoslovakia
934				3	1935	Zvíkov	Czechoslovakia	934				4.1	1935	Kostelec & Czechoslovakia	
934				5.4	1935	Hulin	Czechoslovakia	934				4.2	1935	Horní Smokovce	Czechoslovakia
934				3.3	1935	Habartice	Czechoslovakia	934	2.6	4.2	2	3.4	1935	Záborná	Czechoslovakia
934				2.6	1935	Frysaldov	Czechoslovakia	934				2.6	1935	Frysava	Czechoslovakia
934				3.8	1935	Drevohostice	Czechoslovakia	934				3.6	1935	Drevohostice	Czechoslovakia
934				2.3	1935	Brtnice	Czechoslovakia	934				4.3	1935	Brtnice	Czechoslovakia
934				6.1	1935	Breclav	Czechoslovakia	934				6.3	1935	Horní Smokovce	Czechoslovakia
934				4.2	1935	Radosovice	Czechoslovakia	934				5.1	1935	Opava	Czechoslovakia
934				3.8	1935	Osícko	Czechoslovakia	934				4.9	1935	Ostruzná	Czechoslovakia
934				2	1935	Panská Lhota	Czechoslovakia	934				2.6	1935	Peruc	Czechoslovakia
934				2.7	1935	Peruc	Czechoslovakia	934	1.1	1.1	2	1.1	1935	Petrovice	Czechoslovakia
934				3.9	1935	Podoly	Czechoslovakia	934				4.5	1935	Podoly	Czechoslovakia
934				0.9	1935	Mor. Trebová	Czechoslovakia	934				0.8	1935	Lipt. Sv. Mikulas	Czechoslovakia
934				1.6	1935	Zd'ár	Czechoslovakia	934				2.1	1935	Prácheň	Czechoslovakia
934				2	1935	Zd'ár	Czechoslovakia	934				4.4	1935	Radosovice	Czechoslovakia
934	3	4.6	2	3.8	1935	Recice	Czechoslovakia	934				4.1	1935	Silvič	Czechoslovakia
934				2.6	1935	Silvič	Czechoslovakia	934				2.1	1935	Stržany	Czechoslovakia
934				6.5	1935	Tatranska Lesná	Czechoslovakia	934				2.3	1935	Tatranska Lesná	Czechoslovakia
934				5.2	1935	Trenc Teplice	Czechoslovakia	934				5	1935	Trenc Teplice	Czechoslovakia
934				5.3	1935	Trnava	Czechoslovakia	934				0.3	1935	Uhrinovice	Czechoslovakia
934				5.8	1935	N. Bydžov	Czechoslovakia	934				5.8	1935	Kromeriz	Czechoslovakia
935				1.7	1949	Slotava	Czechoslovakia	935				1.5	1949	Kostomlátky	Czechoslovakia
935				4.1	1949	Hruby Jeseník	Czechoslovakia	935				1.3	1949	Hruby Jeseník	Czechoslovakia
935				0.1	1949	Hruby Jeseník	Czechoslovakia	935	0.5	1	2	0.75	1949	Jíkev	Czechoslovakia
935				4.8	1949	Jíkev	Czechoslovakia	935				7	1949	Jíkev	Czechoslovakia
935				0.5	1949	Kostomlátky	Czechoslovakia	935				0.5	1949	Kovansko	Czechoslovakia
935				3.4	1949	Kostomlátky	Czechoslovakia	935				0.5	1949	Horátev	Czechoslovakia
935				3	1949	Kostomlátky	Czechoslovakia	935				2.1	1949	Kostomlátky	Czechoslovakia
935	1.2	1.8	2	1.5	1949	Kostomlátky	Czechoslovakia	935				0.1	1949	Kovance	Czechoslovakia
935				0.1	1949	Kovance	Czechoslovakia	935				2.7	1949	Kovance	Czechoslovakia
935				0.8	1949	Sovenice	Czechoslovakia	935				1.5	1949	Kostomlátky	Czechoslovakia
935	1.4	32.5	16	5.1	1949	Darkov	Czechoslovakia	935	1.9	3	2	2.45	1949	Bobnice	Czechoslovakia
935				1.8	1949	Bobnice	Czechoslovakia	935				4	1949	Budiměřice	Czechoslovakia
935				0.5	1949	Budiměřice	Czechoslovakia	935				5.8	1949	Budiměřice	Czechoslovakia
935				2	1949	Chleby	Czechoslovakia	935	2.5	3.8	2	3.15	1949	Chleby	Czechoslovakia
935				4.3	1949	Hruby Jeseník	Czechoslovakia	935	1.3	27.5	16	7.3	1949	Darkov	Czechoslovakia
935				0.5	1949	Horátev	Czechoslovakia	935				0.1	1949	Doubrava	Czechoslovakia
935				1.1	1949	Doubrava	Czechoslovakia	935				2.2	1949	Doubrava	Czechoslovakia
935				1.5	1949	Drahelice	Czechoslovakia	935				0.5	1949	Drahelice	Czechoslovakia
935				1.6	1949	Drahelice	Czechoslovakia	935				1.5	1949	Horátev	Czechoslovakia
935				0.1	1949	Kovansko	Czechoslovakia	935				2.5	1949	Chleby	Czechoslovakia
935				2.4	1949	Sovenice	Czechoslovakia	935				1.8	1949	Kovansko	Czechoslovakia
935				0.1	1949	Nymburg	Czechoslovakia	935				2.5	1949	Nymburg	Czechoslovakia
935				4.3	1949	Nymburg	Czechoslovakia	935	4.8	5.7	2	5.25	1949	Oskorín	Czechoslovakia
935				2.2	1949	Oskorín	Czechoslovakia	935				0.1	1949	Oskorín	Czechoslovakia
935				2.8	1949	Novy Dvur	Czechoslovakia	935				1.5	1949	Sovenice	Czechoslovakia
935				4.2	1949	Novy Dvur	Czechoslovakia	935				2.8	1949	Studec	Czechoslovakia
935	1	1.5	2	1.25	1949	Studec	Czechoslovakia	935				8	1949	Studec	Czechoslovakia
935				9	1949	Studec	Czechoslovakia	935				7.3	1949	Studec	Czechoslovakia
935				6	1949	Studec	Czechoslovakia	935				4.8	1949	Studec	Czechoslovakia
935				3	1949	Slotava	Czechoslovakia	935				4.6	1949	Mcery	Czechoslovakia
935				3.2	1949	Kovansko	Czechoslovakia	935				3.2	1949	Kovansko	Czechoslovakia
935				2.4	1949	Kovansko	Czechoslovakia	935				0.5	1949	Lány	Czechoslovakia
935				2.7	1949	Lány	Czechoslovakia	935				4	1949	Lány	Czechoslovakia
935				0.7	1949	Mcery	Czechoslovakia	935				3.3	1949	Novy Dvur	Czechoslovakia
935				2.1	1949	Mcery	Czechoslovakia	935				4.6	1949	Mcery	Czechoslovakia
935				5.8	1949	Mecír	Czechoslovakia	935				5.2	1949	Mecír	Czechoslovakia
935				2.2	1949	Mecír	Czechoslovakia	935				3.8	1949	Mecír	Czechoslovakia
935				3	1949	Mecír	Czechoslovakia	935				1	1949	Novy Dvur	Czechoslovakia
935				3.8	1949	Novy Dvur	Czechoslovakia	935				0.5	1949	Mcery	Czechoslovakia
936	3.43	8.08	8	5.22	1929	Derbyshire	UK	936				25	1929	Locality unspecified	Falkland Island

Ref	Min	Max	No.	Av.	Year	Location	Country	Ref	Min	Max	No.	Av.	Year	Location	Country
937				0.46	1933	Edale, Derbyshire	UK	937				4	1933	Carlesworth,	UK
937	0.39	5.79	6	2.12	1933	Glossop, Derbyshire	UK	937	1	5.3	6	2.31	1933	Heanor, Derbyshire	UK
937				3.53	1933	Heage, Derbyshire	UK	937				0.1	1933	Hayfield,	UK
937				0.79	1933	Hathersage,	UK	937				0.8	1933	Hassop, Derbyshire	UK
937				3.06	1933	Hartington,	UK	937				1	1933	Grindleford,	UK
937				0.43	1933	Grange Mill,	UK	937				1.13	1933	Elton, Derbyshire	UK
937				6.4	1933	Hopton, Derbyshire	UK	937				0.6	1933	Coxbench,	UK
937				1.4	1933	Horsely Woodhouse,	UK	937				3.46	1933	Chapel-en-le-Frith,	UK
937				1.5	1933	Calver, Derbyshire	UK	937				0.13	1933	Bugsworth,	UK
937	0.47	2.24	2	1.355	1933	Brook Gate,	UK	937				0.41	1933	Bonsall Moor,	UK
937				0.06	1933	Birchover,	UK	937	1.48	2.83	4	1.97	1933	Beeley, Derbyshire	UK
937	12.36	13.6	2	12.98	1933	Ashwood Dale,	UK	937				0.86	1933	Ashton,	UK
937				1.13	1933	Alport, Derbyshire	UK	937	0.59	1.49	2	1.04	1933	Crich, Derbyshire	UK
937				3.6	1933	Tideswell,	UK	937				3.86	1933	Winster, Derbyshire	UK
937				0.3	1933	Whatstandwell,	UK	937				0.47	1933	Via Gellia,	UK
937				1.33	1933	Hope, Derbyshire	UK	937	0.7	9.5	2	5.1	1933	Two Dales,	UK
937				0.4	1933	Taddington,	UK	937				1.5	1933	Smalley, Derbyshire	UK
937				3.6	1933	Shipley, Derbyshire	UK	937	3.13	4.66	2	3.895	1933	Lathkil Dale,	UK
937	4	24.1	2	14.05	1933	Via Gellia,	UK	937				0.81	1933	Kirk Dale,	UK
937				0.9	1933	Sheldon, Derbyshire	UK	937	0.1	0.9	2	0.5	1933	Little Eaton,	UK
937	1.46	11.8	2	6.63	1933	Longcliffe,	UK	937				9.76	1933	Middleton,	UK
937				1.46	1933	Newton Grange,	UK	937				8.33	1933	Parwich, Derbyshire	UK
938	2.2	4.235	2	3.218	1930	Tarascon	France	938				1.65	1930	Carcassonne	France
938				4.95	1930	Nimes	France	938				2.64	1930	Nimes	France
938	2.2	2.475	2	2.338	1930	Tarascon	France	938				2.337	1930	Tarascon	France
938				3.143	1930	Carcassonne	France	940	0.15	4.15			1926	Passau, Bavaria	Germany
940				5.39	1926	Dietmannsried,	Germany	940	0.64	2.8	6	1.72	1926	Oggersheim,	Germany
940	2.28	6.78	6	4.6	1926	Eddelack, Holstein	Germany	940				2.1	1926	Beratzhausen,	Germany
940				1.05	1926	Passau, Bavaria	Germany	940	0.76	1.12	2	0.94	1926	Dietmannsried,	Germany
940				0.1	1926	Nuremberg, Bavaria	Germany	940				3.81	1926	Nördlingen, Bavaria	Germany
940	8.5	9.33	2	8.92	1926	Kaufbeuren, Bavaria	Germany	940				0.16	1926	Kemnath, Bavaria	Germany
940				2.03	1926	Ansbach, Bavaria	Germany	940				2.57	1926	Aldorf, Bavaria	Germany
940				6.02	1926	Bavaria	Germany	940				7.8	1926	Bavaria	Germany
940				2.75	1926	Uffenheim, Bavaria	Germany	940				0.9	1926	Gunzenhausen,	Germany
940	0.93	1.59	2	1.26	1926	Munich District,	Germany	941				1.202	1927	Neuenheim	Germany
941				1.252	1927	Schwalbach	Germany	941				1.813	1927	Sulzbach	Germany
941				1.4	1927	Mammolsheim	Germany	942				6.6	1928	Oeynhausen	Germany
942				0.84	1928	Köhlen	Germany	942				0.38	1928	Lindenau	Germany
942				2	1928	Ludwigshof bei	Germany	942				0.64	1928	Marklissa	Germany
942				0.19	1928	Marklissa	Germany	942				1.84	1928	Minden	Germany
942				1.46	1928	Minden	Germany	942				0.52	1928	Münsterberg	Germany
942				2	1828	Norderney	Germany	942				3.4	1928	Oeynhausen	Germany
942				1.04	1928	Ottenstein	Germany	942				1.8	1928	Ottenstein	Germany
942				0.67	1928	Tepliwoda	Germany	942				1.32	1928	Torgau-Ost.	Germany
942				1.04	1928	Torgau-Ost.	Germany	942				0.72	1928	Tost.	Germany
942				0.92	1928	Köhlen	Germany	942				0.625	1928	Vechele	Germany
942				0.76	1928	Neuwied	Germany	942				1.36	1928	Gross-Strelitz	Germany
942				4	1928	locality unspecified	New Guinea	942				2	1928	Alme	Germany
942				1.96	1928	Alme	Germany	942	10	11			1928	Bad Reinerz	Germany
942	3.6	6.8	2	5.2	1928	Bederkesa	Germany	942	1.8	2.8	2	2.3	1928	Bederkesa	Germany
942				0.44	1928	Berlin	Germany	942				0.8	1928	Bremerhaven	Germany
942				2.85	1928	Gross-Strelitz	Germany	942				0.72	1928	Gross-Strelitz	Germany
942				1.2	1928	Höchst	Germany	942				0.76	1928	Vechele	Germany
942				7.8	1928	Grünfliess	Germany	942				5.2	1928	Grünfliess	Germany
942	0.6	1.52	6	1.093	1928	Hildesheim	Germany	942	1.4	2.8	2	2.1	1928	Hildesheim	Germany
942	0.48	2.8	4	1.39	1928	Hildesheim	Germany	942				1.32	1928	Hildesheim	Germany
942				0.6	1928	Höchst	Germany	942				1.08	1928	Gross-Strelitz	Germany
942				5	1928	East Friesland	Germany	942				7.65	1928	Vechele	Germany
942	27.5	28			1928	Westrauderfehn	Germany	942				2.3	1928	Weener	Germany
942				2.7	1928	Vege sack	Germany	942				1.12	1928	Vege sack	Germany
942				0.96	1928	Vege sack	Germany	942				4.72	1928	Vege sack	Germany
942				7	1928	Vechele	Germany	943				1.1	1929	Uffenheim	Germany
943				3.3	1929	Zoppot	Germany	943				1	1929	Uffenheim	Germany
943				1.5	1929	Uffenheim	Germany	943				13	1929	Schleswig	Germany
943				28.3	1929	Schleswig	Germany	943	1.1	13.3	9	6.667	1929	Schleswig	Germany
943	2.3	8.5	4	5.6	1929	Schleswig	Germany	943	0.8	1.1	6	0.933	1929	Oppau	Germany
943	0.9	1.2	6	1.083	1929	Oppau	Germany	943	0.9	2.1	4	1.75	1929	Limburgerhof bei	Germany
944				2.3	1930	Palatinate	Germany	944				0.6	1930	Palatinate	Germany
944				2.2	1930	Palatinate	Germany	944				0.7	1930	Palatinate	Germany
944				2.7	1930	Palatinate	Germany	944				0.08	1930	Palatinate	Germany
944				0.25	1930	Palatinate	Germany	944				0.185	1930	Palatinate	Germany
944				2.8	1930	Palatinate	Germany	944				1.85	1930	Palatinate	Germany
944				1.2	1930	Palatinate	Germany	944				8.8	1930	Schleswig	Germany
944				3.7	1930	Schleswig	Germany	944				2.4	1930	Schleswig	Germany
944				0.69	1930	Schleswig-Holstien	Germany	944				1.17	1930	Schleswig-Holstien	Germany
944				1.5	1930	Palatinate	Germany	944				2.5	1930	Schleswig-Holstien	Germany
944				0.75	1930	Palatinate	Germany	944				1.1	1930	Palatinate	Germany
944				0.25	1930	Palatinate	Germany	944				2.8	1930	Palatinate	Germany
944				1.05	1930	Palatinate	Germany	944				0.44	1930	Palatinate	Germany
944				0.2	1930	Palatinate	Germany	944				1.45	1930	Palatinate	Germany
944				1.74	1930	Palatinate	Germany	944				2.7	1930	Palatinate	Germany
944				0.92	1930	Palatinate	Germany	944				3.1	1930	Palatinate	Germany
944				3.6	1930	Palatinate	Germany	944				0.1	1930	Palatinate	Germany
944				7.3	1930	Palatinate	Germany	944				2.4	1930	Palatinate	Germany
944				2.5	1930	Palatinate	Germany	945				1.841	1932	Prussia, Gut	Germany

Ref	Min	Max	No.	Av.	Year	Location	Country	Ref	Min	Max	No.	Av.	Year	Location	Country
945	0.675	2.194	2	1.435	1932	Prussia, Berlin	Germany	945				4.148	1932	Prussia,	Germany
945	1.423	1.957	2	1.69	1932	Prussia, Kiel	Germany	945				2.933	1932	Prussia, Elemental	Germany
945	1.275	1.702	2	1.489	1932	Prussia, Cottbus	Germany	945				7.536	1932	Prussia, Laudenbach	Germany
945	0.11	1.421	2	0.766	1932	Prussia, Königsberg	Germany	946				3.39	1935	Middle Franconia,	Germany
946				1.96	1935	Lower Franconia,	Germany	946	2.17	3.55	5	2.9	1935	Lower Franconia,	Germany
946				3.78	1935	Lower Franconia,	Germany	946				3.62	1935	Lower Franconia,	Germany
946				1.46	1935	Middle Franconia,	Germany	946				1.77	1935	Middle Franconia,	Germany
946				3.74	1935	Middle Franconia,	Germany	946				5.96	1935	Middle Franconia,	Germany
946				4.18	1935	Middle Franconia,	Germany	946	6.19	6.54	2	6.365	1935	Middle Franconia,	Germany
946				3.29	1935	Upper Franconia,	Germany	946				1.18	1935	Upper Bavaria,	Germany
946	3.42	3.52	2	3.47	1935	Lower Franconia,	Germany	946				2.38	1935	Middle Franconia,	Germany
946				0.97	1935	Lower Franconia,	Germany	946				4.34	1935	Swabia, Weizenried	Germany
946				4.78	1935	Upper Bavaria,	Germany	946				1.71	1935	Upper Franconia,	Germany
946				2.39	1935	Upper Bavaria,	Germany	946				2.44	1935	Upper Bavaria,	Germany
946				5.34	1935	Black Forest,	Germany	946				0.86	1935	Black Forest,	Germany
946				1.96	1935	Black Forest,	Germany	946				4.83	1935	Lower Franconia,	Germany
946	1.69	2.59	4	2.18	1935	Lower Franconia,	Germany	946				1.87	1935	Lower Franconia,	Germany
946				2.48	1935	Lower Franconia,	Germany	946				1.56	1935	Lower Franconia,	Germany
946				2.79	1935	Lower Franconia,	Germany	946				1.67	1935	Lower Franconia,	Germany
946				2.01	1935	Black Forest,	Germany	946				3.63	1935	Swabia, Rickenbach	Germany
946				3.31	1935	Swabia, Sigmarszell	Germany	946	2.59	8.5	18	4.84	1935	Swabia, Kempten	Germany
946				3.7	1935	Swabia, Krugzell	Germany	946				2.61	1935	Swabia, Lautrach	Germany
946				1.42	1935	Swabia, Legau	Germany	946				1.82	1935	Swabia, Hangnach	Germany
946				3.32	1935	Swabia,	Germany	946				1.16	1935	Swabia, Hangnach	Germany
946				3.2	1935	Swabia, Röthenbach	Germany	946				5.07	1935	Swabia, Röthenbach	Germany
946				10.39	1935	Swabia, Schwangau	Germany	946				6.12	1935	Swabia, Sigmarszell	Germany
946				1.41	1935	Swabia, Steinebach	Germany	946				4.61	1935	Upper Bavaria,	Germany
946				2.96	1935	Swabia, Nördlingen	Germany	946				2.89	1935	Swabia, Altusried	Germany
946				2.77	1935	Upper Franconia,	Germany	946				9.69	1935	Upper Franconia,	Germany
946	1.72	3.54	7	2.17	1935	Upper Franconia,	Germany	946				5.22	1935	Upper Franconia,	Germany
946	2.27	2.63	2	2.45	1935	Upper Franconia,	Germany	946				3.2	1935	Swabia, Kalzhofen	Germany
946	1.56	3.7	5	2.58	1935	Upper Franconia,	Germany	946				6.86	1935	Upper Franconia,	Germany
946				2.52	1935	Swabia, Altusried	Germany	946				3.45	1935	Swabia, Buchenberg	Germany
946				1.55	1935	Swabia, Ebratshofen	Germany	946				1.9	1935	Swabia,	Germany
946				3.87	1935	Swabia, Ellhofen	Germany	946				2.2	1935	Swabia, Gundlfingen	Germany
946	1.8	9.78	8	3.49	1935	Upper Franconia,	Germany	946				1.35	1935	Lower Bavaria,	Germany
946	2.12	4.53	9	3.31	1935	Lower Bavaria, Stadl	Germany	946				2.41	1935	Lower Bavaria,	Germany
946				0.63	1935	Lower Bavaria,	Germany	946				1.43	1935	Lower Bavaria,	Germany
946				2.32	1935	Lower Bavaria,	Germany	946				5.82	1935	Lower Bavaria,	Germany
946				4.56	1935	Upper Bavaria,	Germany	946				2.82	1935	Lower Bavaria,	Germany
946				2.16	1935	Lower Bavaria,	Germany	946	1.68	4.56	5	2.43	1935	Lower Bavaria,	Germany
946				1.57	1935	Upper Bavaria,	Germany	946				5.49	1935	Upper Bavaria,	Germany
946				5.18	1935	Upper Bavaria,	Germany	946	2.74	9.77	2	6.255	1935	Upper Bavaria,	Germany
946				1.26	1935	Upper Bavaria,	Germany	946				2.1	1935	Lower Bavaria,	Germany
946				2.93	1935	Lower Bavaria,	Germany	946				4.85	1935	Lower Bavaria,	Germany
946				2.44	1935	Upper Franconia,	Germany	946				5.93	1935	Upper Bavaria,	Germany
946	5.81	8	2	6.905	1935	Lower Bavaria,	Germany	946				1.02	1935	Lower Bavaria,	Germany
946				0.86	1935	Lower Bavaria,	Germany	946	2.98	11.85	7	5.01	1935	Lower Bavaria,	Germany
946				2.25	1935	Lower Bavaria,	Germany	946	1.34	1.97	2	1.655	1935	Lower Bavaria,	Germany
946	2.07	6.48	3	3.6	1935	Lower Bavaria,	Germany	946	1.43	6.75	3	4.9	1935	Lower Bavaria,	Germany
946				2.88	1935	Lower Bavaria,	Germany	946	1.8	5.61	2	3.705	1935	Lower Bavaria,	Germany
946				1.61	1935	Lower Bavaria,	Germany	946				1.65	1935	Lower Bavaria,	Germany
946				2.59	1935	Lower Bavaria,	Germany	946				1.41	1935	Lower Bavaria,	Germany
946				1.88	1935	Lower Bavaria,	Germany	946				1.54	1935	Lower Bavaria,	Germany
946				2.54	1935	Upper Bavaria,	Germany	946				1.6	1935	Upper Bavaria,	Germany
946	1.88	4.57	4	2.94	1935	Upper Bavaria,	Germany	946				5.36	1935	Upper Bavaria,	Germany
946				3.31	1935	Upper Bavaria,	Germany	946				1.81	1935	Upper Bavaria,	Germany
946				1.75	1935	Upper Bavaria,	Germany	946				4.45	1935	Upper Bavaria,	Germany
946				7.5	1935	Upper Bavaria,	Germany	946				2.43	1935	Upper Bavaria,	Germany
946	2.99	10	2	6.5	1935	Upper Bavaria,	Germany	946				3.8	1935	Upper Bavaria,	Germany
946	3.55	9.08	2	6.315	1935	Lower Bavaria,	Germany	946				1.71	1935	Upper Bavaria,	Germany
946				2.47	1935	Upper Bavaria,	Germany	946				6.97	1935	Upper Bavaria,	Germany
946				7.81	1935	Upper Bavaria, Tölz	Germany	946				2.08	1935	Upper Bavaria,	Germany
946				2.18	1935	Upper Bavaria,	Germany	946				3.19	1935	Upper Bavaria,	Germany
946				3	1935	Upper Bavaria,	Germany	946				4.06	1935	Upper Bavaria,	Germany
946				2.77	1935	Upper Bavaria, Riet	Germany	946				3.64	1935	Upper Bavaria,	Germany
946				4.09	1935	Upper Bavaria,	Germany	946				2.98	1935	Upper Bavaria,	Germany
946				5.43	1935	Upper Bavaria,	Germany	946				1.12	1935	Upper Bavaria,	Germany
946				12.18	1935	Upper Bavaria,	Germany	946				3.88	1935	Upper Bavaria,	Germany
946				2.72	1935	Upper Bavaria,	Germany	946				2.82	1935	Upper Bavaria,	Germany
946				3.76	1935	Upper Bavaria,	Germany	946	5.02	8.22	2	6.62	1935	Upper Bavaria,	Germany
946				3.48	1935	Upper Bavaria,	Germany	946				1.32	1935	Upper Bavaria,	Germany
947				0.11	1936	Silesia, Bad Reinerz	Germany	947				0.344	1936	Silesia, Bad Reinerz	Germany
947	3.252	11.667	8	7.254	1936	Silesia, Bad Reinerz	Germany	948	1.95	2.2	2	2.075	1949	Oberrimsingen	Germany
948				1.96	1949	Oberrimsingen	Germany	948				1.95	1949	Niederrimsingen	Germany
948				2.95	1949	Niederrimsingen	Germany	948				1.46	1949	Niederrimsingen	Germany
948				1.97	1949	Oberrimsingen	Germany	948				1.94	1949	Niederrimsingen	Germany
948				3.43	1949	Oberrimsingen	Germany	948				2.68	1949	Oberrimsingen	Germany
948				3.9	1949	Oberrimsingen	Germany	948	0.98	2.21	3	1.717	1949	Niederrimsingen	Germany
948				3.9	1949	Oberrimsingen	Germany	948				3.64	1949	Niederrimsingen	Germany
948				4.72	1949	Oberrimsingen	Germany	948				1.22	1949	Niederrimsingen	Germany
948	3.9	3.9	2	3.9	1949	Oberrimsingen	Germany	948				2.95	1949	Hausen	Germany
948				2.45	1949	Niederrimsingen	Germany	948				1.96	1949	Niederrimsingen	Germany
948				1.97	1949	Niederrimsingen	Germany	948				1.48	1949	Niederrimsingen	Germany
948				1.48	1949	Niederrimsingen	Germany	948				2.94	1949	Merdingen	Germany

Ref	Min	Max	No.	Av.	Year	Location	Country	Ref	Min	Max	No.	Av.	Year	Location	Country
948				2.78	1949	Merdingen	Germany	948				4.18	1949	Merdingen	Germany
948				1.95	1949	Hausen	Germany	948				2.41	1949	Niederrimsingen	Germany
948				2.2	1949	Grezhhausen	Germany	948				5.27	1949	Merdingen	Germany
948				1.94	1949	Hausen	Germany	948				5.39	1949	Hausen	Germany
948				2.96	1949	Hausen	Germany	948				2.46	1949	Hausen	Germany
948				3.46	1949	Hausen	Germany	948				2.93	1949	Hausen	Germany
948	3.44	3.65	2	3.545	1949	Hausen	Germany	948	1.98	3.18	3	2.537	1949	Hausen	Germany
948				1.96	1949	Grezhhausen	Germany	948	1.98	4.17	4	3.183	1949	Oberrrimsingen	Germany
949				2.86	1932	Balmazújváros	Hungary	949				4.094	1932	Hajduszoboszló	Hungary
949				1.904	1932	Békéscsada	Hungary	949	0.286	0.362	2	0.324	1932	Great Plain beyond	Hungary
949				0.438	1932	Ujfehértó	Hungary	949				6.521	1932	Kaba	Hungary
949				0.428	1932	Hortobágy	Hungary	949				13.47	1932	Biharnagybajom	Hungary
949				4.57	1932	Hajdunánás	Hungary	949				0.238	1932	Bocskai kert	Hungary
950				2.6	1940	Co. Tipperary,	Ireland	950				3.4	1940	Co. Tipperary,	Ireland
950				1.6	1940	Co. Tipperary,	Ireland	950				5.9	1940	Co. Tipperary,	Ireland
950				1.7	1940	Co. Tipperary,	Ireland	950				5	1940	Co. Tipperary,	Ireland
950				7.2	1940	Co. Tipperary,	Ireland	950				5.6	1940	Co. Tipperary,	Ireland
950				3.7	1940	Co. Tipperary,	Ireland	950				3.3	1940	Co. Tipperary,	Ireland
950				2.6	1940	Co. Tipperary, Emly	Ireland	950				5.8	1940	Co. Tipperary,	Ireland
950				2.7	1940	Co. Tipperary,	Ireland	950				2.3	1940	Co. Tipperary,	Ireland
950				4.5	1940	Co. Tipperary,	Ireland	950				21	1940	Co. Galway,	Ireland
950				1.5	1940	Co. Tipperary,	Ireland	950				4.8	1940	Co. Tipperary,	Ireland
950				4.7	1940	Co. Tipperary,	Ireland	950				3.9	1940	Co. Tipperary,	Ireland
950				5.8	1940	Co. Tipperary,	Ireland	950				3	1940	Co. Tipperary,	Ireland
950				5.8	1940	Co. Tipperary,	Ireland	950				3.8	1940	Co. Tipperary,	Ireland
950				0.7	1940	Co. Tipperary,	Ireland	950				2.4	1940	Co. Tipperary,	Ireland
950				4.7	1940	Co. Tipperary, New	Ireland	950				3.7	1940	Co. Tipperary,	Ireland
950				6.5	1940	Co. Tipperary,	Ireland	950				11	1940	Co. Tipperary, The	Ireland
950				3.5	1940	Co. Tipperary,	Ireland	950				68.4	1940	Co. Galway, Salerna	Ireland
950				1.9	1940	Co. Tipperary,	Ireland	950				21.1	1940	Co. Galway, Spiddal	Ireland
950				1.2	1940	Co. Tipperary,	Ireland	950				3.4	1940	Co. Tipperary,	Ireland
950				1.6	1940	Co. Tipperary,	Ireland	950			11	8.5	1940	Co. Cork, Cork	Ireland
950				44.1	1940	Co. Galway, Barna	Ireland	950				83.2	1940	Co. Galway, Furbo	Ireland
950				3.1	1940	Co. Tipperary,	Ireland	950				32	1940	Co. Galway, R.	Ireland
950				13.2	1940	Co. Galway,	Ireland	950				10.6	1940	Co. Tipperary,	Ireland
951	12.7	16.08	2	14.39	1945	Co. Galway, Spiddal	Ireland	951	4.82	5.29	2	5.05	1945	Co. Mayo,	Ireland
951	2.488	5.416	6	3.721	1945	Co. Tipperary,	Ireland	951	2.368	5.459	9	3.809	1945	Co. Tipperary,	Ireland
951	1.4	4.05	4	3.071	1945	Co. Tipperary,	Ireland	951	2.445	4.03	3	3.01	1945	Co. Leix,	Ireland
952	31	31.8	2	31.4	1930	Locality unspecified	Netherlands	952				2.65	1930	Brabant	Netherlands
952				8.6	1930	South Holland	Netherlands	952				13.3	1930	Zeeland	Netherlands
953	32.6	57	3	42.23	1932	Dollard District	Netherlands	953	4	5.52	5	4.73	1932	Meppel & Steenwijk	Netherlands
953	9.45	14.4	3	12.52	1932	Warffum	Netherlands	953	9.3	22.8	5	16.68	1932	Slochteren	Netherlands
953	7.36	60.6	5	20.6	1932	Slochteren	Netherlands	953	0.56	4.05	11	2.67	1932	Rhine-Maas Delta	Netherlands
953	2.84	3.63	11	3.15	1932	Rhine-Maas Delta	Netherlands	953				9.55	1932	Onderwierum	Netherlands
953				10.3	1932	Onderwierum	Netherlands	953				10.7	1932	Noordwolde	Netherlands
953	1.16	3.41	6	2.31	1932	Breda	Netherlands	953	2.75	8.75	5	4.71	1932	Meppel & Steenwijk	Netherlands
953	8.05	16.9	4	10.78	1932	't Zandt	Netherlands	953	1.3	3.55	8	2.45	1932	Meppel & Steenwijk	Netherlands
953	1.21	4.62	8	2.79	1932	Meppel & Steenwijk	Netherlands	953	6.4	16.9	4	11.25	1932	Krimpenerwaard	Netherlands
953	8.6	14.4	4	11.8	1932	Krimpenerwaard	Netherlands	953	3.18	4.23	2	3.71	1932	Krimpenerwaard	Netherlands
953	3.85	4.61	2	4.23	1932	Krimpenerwaard	Netherlands	953				15	1932	Julianapolder	Netherlands
953				18.5	1932	Julianapolder	Netherlands	953	5.64	14.4	5	10.36	1932	Hunze District	Netherlands
953				10.6	1932	Noordwolde	Netherlands	953	2.16	2.8	2	2.48	1932	Zutphen	Netherlands
953	34.8	59.3	3	43.03	1932	Dollard District	Netherlands	953	7.7	14.1	5	10.83	1932	Hunze District	Netherlands
953	1.43	2.9	6	2.16	1932	Breda	Netherlands	953	1.67	4.68	6	3.09	1932	Assen	Netherlands
953	7.67	18.4	3	11.62	1932	Warffum	Netherlands	953	2.65	6.25	6	3.98	1932	Assen	Netherlands
953				13.2	1932	Gaaokemawier	Netherlands	953	2.44	3.05	2	2.745	1932	Zutphen	Netherlands
953	1.86	5.28	6	2.69	1932	Zutphen	Netherlands	953	1.58	4.86	7	2.71	1932	Zutphen	Netherlands
953				11.3	1932	Zevenboerenpolder	Netherlands	953				12	1932	Zevenboerenpolder	Netherlands
953	3.35	21.44	6	8.87	1932	Zeeland	Netherlands	953	4.34	27.84	6	10.94	1932	Zeeland	Netherlands
953				10.2	1932	Gaaokemawier	Netherlands	953	9.13	16.5	4	11.34	1932	't Zandt	Netherlands
954				11.9	1924	Effingen	Switzerland	954				0.82	1924	Kaisten	Switzerland
954				1.97	1924	Kaisten	Switzerland	954				4.94	1924	Hornussen	Switzerland
954				0.61	1924	HunZenschwil	Switzerland	955				0.42	1930	Latvia, Melluži	USSR
955				3.09	1930	Latvia, Kemer	USSR	955	0.21	0.3			1930	Latvia, locality	USSR
955				5.58	1930	Latvia, Baldone	USSR	955	0.135	0.25			1930	Latvia, Slok	USSR
955				5.06	1930	Latvia, Kemer	USSR	955	2.28	31.7	2	16.99	1930	Latvia, Kemer	USSR
955				28	1930	Latvia, Liepāja	USSR	955				1.6	1930	Latvia, Madona	USSR
955	6.5	9.5			1930	Latvia, Poguljanka	USSR	955	1.4	7.7	2	4.55	1930	Latvia, Cevsaine	USSR
956				3.38	1944	Bank of Lake Orlovo	USSR	956				5.07	1944	Bank of Lake Orlovo	USSR
956				1.32	1944	Bank of Lake Orlovo	USSR	956				2.89	1944	Bolshevo	USSR
956				4.44	1944	Bolshevo	USSR	956				1.76	1944	Moscow Province	USSR
956	0.69	2.2	2	1.445	1944	Moscow Province	USSR	1011	1.64	5.63	19	3.75	1997	Austria	Austria
1011	1.08	4.8	21	2.58	1997	Austria	Austria	1021	2	9.8		5.3	1940	Locality unspecified	USSR
1021	0.2	42	51	5.1	1940	Locality unspecified	USSR	1021	3	9	5	6.6	1940	Eastern Siberia	USSR
1021	0.56	4.4		2.5	1940	Locality unspecified	USSR	1021	6.4	12		10	1940	Locality unspecified	USSR
1021	0.2	42		12	1940	Locality unspecified	USSR	1021	0.3	6.7		2.6	1940	Locality unspecified	USSR
1021	1.3	3.8		2.5	1940	Locality unspecified	USSR	1021	0.28	2.7	17	1.5	1940	Locality unspecified	USSR
1022				19.8	1932	Latvia, Kemer	USSR	1022	4.29	7.34	2	5.815	1932	Latvia, Kemer	USSR
1022				0.492	1932	Latvia, Ilgeziem	USSR	1022				0.357	1932	Latvia, Dondangen	USSR
1022				0.52	1932	Latvia, Riga Coast	USSR	1023	0.45	3.5	2	1.975	1927	Punjab: Sanawar	India
1023	0.4	4.5	2	2.45	1927	Punjab: Kasauli	India	1023				2	1927	Madras:	India
1023	2.3	4.5	2	3.4	1927	Madras: Coimbatore	India	1023	10.1	41.4	3		1927	Madras: Nilgiri Hills	India
1023				2.5	1927	Madras: Madras City	India	1023	2.8	6			1927	Chin Hills	Burma
1024				18.689	1934	Palau Island	Pacific Islands	1024	15.1	55.732	4	36.295	1934	Saipan	Pacific Islands
1024				1.384	1934	Tokyo	Japan	1024				0.578	1934	Nara	Japan

Ref	Min	Max	No.	Av.	Year	Location	Country	Ref	Min	Max	No.	Av.	Year	Location	Country
1024				3.549	1934	Koti	Japan	1024				1.164	1934	Saga	Japan
1024	0.638	5.038	2	2.838	1934	Osaka	Japan	1024	6.05	9.703	2	7.877	1934	Okinawa	Japan
1024				1.361	1934	Okayama	Japan	1024				1.431	1934	Okayama	Japan
1024				1.328	1934	Okayama	Japan	1024				1.243	1934	Simane	Japan
1024	1.058	1.112	2	1.085	1934	Oita	Japan	1024				1.129	1934	Sizuoka	Japan
1024				0.493	1934	Nara	Japan	1024				26.56	1934	Miyazaki	Japan
1024	2.048	3.631	2	2.84	1934	Miyagi	Japan	1024				0.753	1934	Mie	Japan
1024				0.625	1934	Mie	Japan	1024				1.202	1934	Koti	Japan
1024				2.656	1934	Tokushima	Japan	1024	0.98	43.19	3	17.35	1934	Okayama	Japan
1024				2.789	1934	Totiki	Japan	1024	1.246	7.634	2	4.44	1934		Korea
1024				0.807	1934	Yamaguti	Japan	1024	0.807	4.955	2	2.881	1934	Yamaguti	Japan
1024				35.007	1934	Yamagata	Japan	1024				1.873	1934	Wakayama	Japan
1024	1.467	2.583	2	2.025	1934	Wakayama	Japan	1024				1.127	1934	Tottori	Japan
1024				5.372	1934	Saga	Japan	1024				37.935	1934	Tottori	Japan
1024				3.849	1934	Kanagawa	Japan	1024	1.437	17.021	2	9.229	1934	Tokyo	Japan
1024				5.259	1934	Tokushima	Japan	1024				2.928	1934	Tokushima	Japan
1024				3.161	1934	Tiba	Japan	1024				2.788	1934	Tiba	Japan
1024				4.026	1934	Tiba	Japan	1024	0.806	2.455	2	1.631	1934	Sizuoka	Japan
1024				3.388	1934	Tottori	Japan	1024				10.569	1934	Ehime	Japan
1024	2.664	34.69	2	18.677	1934	Koti	Japan	1024	0.977	2.394	2	1.686	1934	Fukuoka	Japan
1024				1.462	1934	Fukuoka	Japan	1024	1.843	6.202	3	3.475	1934	Fukui	Japan
1024				30.81	1934	Ehime	Japan	1024	1.036	1.41	2	1.223	1934	Ehime	Japan
1024				3.141	1934	Ehime	Japan	1024				1.535	1934	Fukushima	Japan
1024				1.871	1934	Ehime	Japan	1024	1.274	1.416	2	1.345	1934	Fukushima	Japan
1024	1.268	3.806	2	2.537	1934	Akita	Japan	1024	3.216	4.419	2	3.818	1934	Manchuria:	China
1024				4.169	1934	Manchuria:	China	1024	4.8	6.639	2	5.72	1934	Manchuria:	China
1024				18.5	1934	Formosa	China	1024				5.941	1934	Formosa	China
1024				1.08	1934	Formosa	China	1024	1.71	7.64	2	4.675	1934	Ehime	Japan
1024				2.008	1934	Gunba	Japan	1024				7.196	1934	Kanagawa	Japan
1024				7.119	1934	Kanagawa	Japan	1024	0.875	0.883	2	0.879	1934	Kagawa	Japan
1024	1.308	1.672	2	1.49	1934	Isikawa	Japan	1024	10.297	19.794	2	15.046	1934	Ibaragi	Japan
1024				3.601	1934	Ibaragi	Japan	1024				56.531	1934	Hokkaido	Japan
1024				0.729	1934	Fukushima	Japan	1024	1.289	3.352	3	2.131	1934	Hiroshima	Japan
1024	0.756	3.163	2	1.96	1934	Formosa	China	1024	1.364	4.454	2	2.909	1934	Gunba	Japan
1024				2.147	1934	Gunba	Japan	1024	1.659	2.186	2	1.923	1934	Gifu	Japan
1024				1.011	1934	Fukushima	Japan	1024				2.856	1934	Fukushima	Japan
1024				1.964	1934	Fukushima	Japan	1024				0.962	1934	Fukushima	Japan
1024				1.774	1934	Fukushima	Japan	1024				1.206	1934	Hokkaido	Japan
1025	20.72	22.64	2	21.68	1937	Kagoshima:	Japan	1025				24.11	1937	Kagoshima: Ei	Japan
1025				5.21	1937	Ehime	Japan	1025				18.45	1937	Kumamoto: Sashiki	Japan
1025				15.33	1937	Kumamoto: Sashiki	Japan	1025				44.36	1937	Kumamoto:	Japan
1025				16.2	1937	Kumamoto:	Japan	1025				11.84	1937	Kanagawa: Ofuna	Japan
1025				9.3	1937	Kagoshima:	Japan	1025	8.07	16.85	2	12.46	1937	Kagoshima:	Japan
1025	21.23	38.06	2	29.645	1937	Kagoshima:	Japan	1025				33.29	1937	Kagoshima:	Japan
1025				12.84	1937	Kumamoto:	Japan	1025				11.98	1937	Kagoshima: Ei	Japan
1025				23.51	1937	Miyazaki: Iwawaki	Japan	1025				37.54	1937	Kagoshima: Ei	Japan
1025				27.01	1937	Kagoshima: Chiran	Japan	1025				27.11	1937	Kagoshima: Chiran	Japan
1025				10.67	1937	Kagoshima: Chiran	Japan	1025				58.12	1937	Kagoshima: Chiran	Japan
1025				10.98	1937	Hyogo	Japan	1025				10.93	1937	Hyogo	Japan
1025				22.7	1937	Hiroshima	Japan	1025				29.34	1937	Gifu	Japan
1025				16.79	1937	Fukuoka	Japan	1025				10.78	1937	Ehime	Japan
1025				68.74	1937	Kagoshima: Kanoya	Japan	1025				8.8	1937	Shimane: Sahime	Japan
1025				32.87	1937	Kagoshima: Kanoya	Japan	1025				17.14	1937	Yawahama	Japan
1025				3.01	1937	Yamaguchi: Sinobu	Japan	1025				21.27	1937	Yamaguchi: Heki	Japan
1025				25.27	1937	Wakayama:	Japan	1025				21.03	1937	Wakayama: Funeiki	Japan
1025				5.16	1937	Wakayama: Fujita	Japan	1025				36.43	1937	Tottori: Akazaki	Japan
1025				18.97	1937	Shizuoka: Mukasa	Japan	1025				34.65	1937	Shizuoka: Mikatabara	Japan
1025				24.04	1937	Kumamoto: Sashiki	Japan	1025				2	1937	Shimane: Yatsuka	Japan
1025				11.22	1937	Ehime	Japan	1025				20.5	1937	Shimane: Masuda	Japan
1025				11.34	1937	Shimane: Kawamoto	Japan	1025				38.68	1937	Shimane: Imaichi	Japan
1025				2.33	1937	Shimane: Fukumitsu	Japan	1025				18.1	1937	Shimane: Arashima	Japan
1025				8.26	1937	Saga: Onitsuka	Japan	1025				49.29	1937	Oita: Yokkaichi	Japan
1025				5.08	1937	Oita: Yokkaichi	Japan	1025				10.05	1937	Oita: Tsukumi	Japan
1025				27.06	1937	Miyazaki: Tomitaka	Japan	1025				24.74	1937	Miyazaki: Kitagawa	Japan
1025				6.75	1937	Shimane: Yoshida	Japan	1025				27.67	1937	Fukuoka	Japan
1026				63.401	1935	Tottori	Japan	1026	0.88	3.151	3	2.03	1935	Okayama	Japan
1026	0.955	4.669	3	2.303	1935	Okayama	Japan	1026	2.957	9.385	3	5.904	1935	Kyoto	Japan
1026	3.229	6.658	3	5.408	1935	Kyoto	Japan	1026	1.297	2.924	6	1.998	1935	Kurashiki	Japan
1026	0.833	3.886	6	2.044	1935	Kurashiki	Japan	1026				60.614	1935	Tottori	Japan
1027				3	1939	Manchuria:	China	1027				5.937	1939	Manchuria: Fu	China
1027				4.84	1939	Manchuria: Fakuting	China	1027				2.762	1939	Manchuria: Fakuting	China
1027				0.618	1939	Manchuria: Emu	China	1027	2.089	2.827	2	2.548	1939	Manchuria: Dairen	China
1027				0.68	1939	Manchuria:	China	1027				1.883	1939	Manchuria: Fushun	China
1027				0.671	1939	Manchuria:	China	1027				1.395	1939	Manchuria:	China
1027	0.867	1.167	2	1.017	1939	Manchuria: Chihfeng	China	1027				1.44	1939	Manchuria: Hulan	China
1027				1.26	1939	Manchuria:	China	1027	0.784	1.317	2	1.051	1939	Manchuria: Fushun	China
1027				0.43	1939	Manchuria: Fuyu	China	1027				0.422	1939	Manchuria: Hailar	China
1027				0.8	1939	Manchuria:	China	1027				0.467	1939	Manchuria: Harbin	China
1027				1.32	1939	Manchuria:	China	1027				1.487	1939	Manchuria:	China
1027				0.542	1939	Manchuria:	China	1027				0.57	1939	Manchuria:	China
1027				1.538	1939	Manchuria:	China	1027				0.714	1939	Manchuria: Hsinmin	China
1027				0.348	1939	Manchuria:	China	1027				2.66	1939	Manchuria: Hailun	China
1027				9.395	1939	Hokkaido: Hokawazu	Japan	1027				3.355	1939	Manchuria:	China
1027				2.64	1939	Hopei: Luan-Hsien	China	1027				1.635	1939	Hopei: Lijun	China
1027				1.68	1939	Hopei: Huaijou	China	1027				1.811	1939	Chiba: Kanaya	Japan

Ref	Min	Max	No.	Av.	Year	Location	Country	Ref	Min	Max	No.	Av.	Year	Location	Country
1027				5.77	1939	Fukuoka: Imatsuna	Japan	1027				0.651	1939	Hopei: Malanyu	China
1027				2.333	1939	Hiroshima:	Japan	1027				0.765	1939	Hopei: Miyun	China
1027				2.329	1939	Kagawa: Takuma	Japan	1027				3.205	1939	Kanagawa:	Japan
1027				2.953	1939	Kumamoto: Yamagi	Japan	1027				1.543	1939	Tokyo: Simo-Ochiai	Japan
1027				1.609	1939	Yamaguchi: Miya	Japan	1027				0.818	1939	Hopei: Hsifengkou	China
1027				0.91	1939	Hopei: Chi-Hsien	China	1027				2.178	1939	Fukushima:	Japan
1027				1.868	1939	Manchuria: Anshan	China	1027				2.076	1939	Manchuria:	China
1027	0.436	1.403	8	0.898	1939	Manchuria:	China	1027				0.405	1939	Manchuria:	China
1027				1.238	1939	Manchuria:	China	1027				0.69	1939	Manchuria:	China
1027				2.158	1939	Manchuria:	China	1027				0.7	1939	Hopei: Malanchen	China
1027				4.275	1939	Manchuria: Antung	China	1027				1.025	1939	Manchuria:	China
1027				1.931	1939	Manchuria: Anshan	China	1027				1.382	1939	Hopei: Wangtien	China
1027				0.783	1939	Hopei: Tsunhua	China	1027				3.27	1939	Hopei: Tang-Shan	China
1027				3.505	1939	Hopei: Shuni	China	1027				1.142	1939	Hopei: San-Ho	China
1027				0.992	1939	Hopei: Pengchiakou	China	1027				1.657	1939	Manchuria:	China
1027	0.465	0.522	2	0.494	1939	Manchuria: Lunghua	China	1027				0.912	1939	Manchuria: Peipiao	China
1027				1.59	1939	Manchuria: Panshih	China	1027				1.782	1939	Manchuria:	China
1027				0.984	1939	Manchuria: Ningnien	China	1027				0.538	1939	Manchuria:	China
1027				2.25	1939	Manchuria: Na-Ho	China	1027				1.27	1939	Manchuria:	China
1027				1.578	1939	Manchuria: Muleng	China	1027	0.417	1.529	2	0.973	1939	Manchuria: Mukden	China
1027	0.437	1.525	4	0.912	1939	Manchuria: Mukden	China	1027	1.053	2.44	3	1.659	1939	Manchuria: Mukden	China
1027	1.035	1.053	2	1.044	1939	Manchuria: Mukden	China	1027				1.542	1939	Manchuria: Mishan	China
1027	0.577	1.091	3	0.905	1939	Manchuria:	China	1027				1.715	1939	Manchuria:	China
1027				1.245	1939	Manchuria: Chian	China	1027	1.148	2.017	2	1.583	1939	Manchuria: Kaiyuan	China
1027				1.525	1939	Manchuria: Koshan	China	1027				2.24	1939	Manchuria:	China
1027	1.782	2.291	2	2.037	1939	Manchuria:	China	1027				1.288	1939	Manchuria:	China
1027				0.949	1939	Manchuria: Linhsi	China	1027				1.275	1939	Manchuria: Lungkua	China
1027				3.836	1939	Manchuria:	China	1027				0.538	1939	Manchuria:	China
1027	0.931	1.011	2	0.971	1939	Manchuria:	China	1027				1.78	1939	Manchuria:	China
1027				1.346	1939	Manchuria:	China	1027				1.453	1939	Manchuria: Nungan	China
1027	0.669	2.02	5	1.339	1939	Manchuria:	China	1027	0.472	0.568	2	0.52	1939	Manchuria:	China
1027	1.353	1.745	2	1.549	1939	Manchuria:	China	1027				1.181	1939	Manchuria: Tumen	China
1027	1.615	3.509	2	2.562	1939	Manchuria: Port	China	1027				1.486	1939	Manchuria: Tungpei	China
1027				1.51	1939	Manchuria:	China	1027	1.069	1.181	2	1.125	1939	Manchuria:	China
1027				1.322	1939	Manchuria:	China	1027				0.563	1939	Manchuria: Tunghua	China
1027				1.874	1939	Manchuria:	China	1027				1.025	1939	Manchuria: Yeh-Ho	China
1027				0.608	1939	Manchuria:	China	1027				1.862	1939	Manchuria: Kaitung	China
1027				0.846	1939	Manchuria:	China	1027				1.758	1939	Manchuria: I-Hsien	China
1027				1.208	1939	Manchuria:	China	1027	0.601	0.811	2	0.706	1939	Manchuria:	China
1027				1.41	1939	Manchuria:	China	1027				1.315	1939	Manchuria: Tunhua	China
1027				0.97	1939	Manchuria:	China	1027				2.622	1939	Manchuria: Taonan	China
1027	0.512	1.025	2	0.769	1939	Manchuria: Siuyen	China	1027				1.513	1939	Manchuria: Solun	China
1027	0.774	1.7	4	1.382	1939	Manchuria: Suichung	China	1027				0.4	1939	Manchuria:	China
1027				2.096	1939	Manchuria:	China	1027				0.865	1939	Manchuria:	China
1027				1.156	1939	Manchuria:	China	1027				2.22	1939	Manchuria: Taian	China
1027				1.619	1939	Manchuria:	China	1027				0.495	1939	Manchuria: Suichung	China
1028	1.4	1.6	2	1.5	1954	Cape Province:	South Africa	1028	1	1.46	2	1.23	1954	Cape Province:	South Africa
1029	23.8	31	3	26.6	1927	Madras: Nilgiri Hills	India	1030				4.9	1955	Mahlangatsha	Swaziland
1030				5	1955	Matapa	Swaziland	1030				8.7	1955	Matapa	Swaziland
1030	1.5	7.5	47		1955	Cape Province	South Africa	1030				3	1955	Banks of Chobe	SW Africa
1030	1.5	7.5	21		1955	Transvaal: Pretoria	South Africa	1030				3	1955	Mahlangatsha	Swaziland
1030	0.19	3.67	14		1955	Cape Province	South Africa	1030				2.2	1955	Imbuluzi	Swaziland
1030				7.5	1955	Goedeggun	Swaziland	1030				5.4	1955	Goedeggun	Swaziland
1030				3	1955	Matanga	SW Africa	1030				1.1	1955	Mahachana	SW Africa
1030				2	1955	Lisikili	SW Africa	1030	4	4	2	4	1955	Linyanti	SW Africa
1030				1.5	1955	Kanono	SW Africa	1030				2.4	1955	Imbuluzi	Swaziland
1030				3	1955	Linyanti	SW Africa	1031	2.8	7			1945	Indiana	USA
1032	2.3	3.5	2	2.9	1951	Indiana	USA	1033				0.767	1951	Kentucky	USA
1033	0.305	0.615	2	0.46	1951	Kentucky	USA	1034	4.18	5.78	5	4.85	1951	Kentucky:	USA
1034	3.45	6.08	6	4.26	1951	Kentucky: Meade	USA	1034	1.87	2.42	2	2.15	1951	Kentucky: Martin	USA
1034	1.59	5.7	9	4.08	1951	Kentucky: Marshall	USA	1034				1.58	1951	Kentucky: Magoffin	USA
1034	1.15	4.25	10	2.09	1951	Kentucky: Madison	USA	1034	3	5.8	3	4.44	1951	Kentucky: Larue	USA
1034	2.91	3.8	4	3.39	1951	Kentucky: McLean	USA	1034				0.81	1951	Kentucky:	USA
1034	2.7	4.98	7	4.11	1951	Kentucky: Lyon	USA	1034	3.6	16.95	9	9.88	1951	Kentucky: Logan	USA
1034	4.36	5.8	6	4.9	1951	Kentucky: Livingston	USA	1034	5.45	5.62	2	5.54	1951	Kentucky: Lincoln	USA
1034	3.14	8.25	9	5.45	1951	Kentucky: Mercer	USA	1034	1.4	2.53	3	2.14	1951	Kentucky: Lawrence	USA
1034	1.5	3.08	6	2.24	1951	Kentucky: Pike	USA	1034	1.15	4.29	11	3.41	1951	Kentucky: Kenton	USA
1034	3.16	4.46	7	4	1951	Kentucky: Jessamine	USA	1034	3.61	4.41	7	4	1951	Kentucky: Hopkins	USA
1034				2.23	1951	Kentucky: Leslie	USA	1034	4.85	11.85	8	8.68	1951	Kentucky: Spencer	USA
1034	2.07	5.75	5	4.34	1951	Kentucky: Hickman	USA	1034	3.65	7.29	14	5.45	1951	Kentucky: Fayette	USA
1034	2.05	4.5	10	3.77	1951	Kentucky: Woodford	USA	1034	3.35	4.21	9	3.77	1951	Kentucky: Webster	USA
1034	3.1	4.1	6	3.48	1951	Kentucky:	USA	1034	2.53	8.38	7	5.16	1951	Kentucky: Warren	USA
1034	2.31	3.75	6	3.07	1951	Kentucky: Union	USA	1034	4.55	5.15	2	4.85	1951	Kentucky: Owen	USA
1034	6.3	6.98	2	6.64	1951	Kentucky: Taylor	USA	1034	3.5	5.26	6	4.38	1951	Kentucky: Metcalfe	USA
1034	1.95	6	13	3.59	1951	Kentucky: Shelby	USA	1034	3.49	4.59	6	4.08	1951	Kentucky: Scott	USA
1034	3.75	4.45	2	4.1	1951	Kentucky: Robertson	USA	1034	3.71	6.1	9	4.65	1951	Kentucky: Pendleton	USA
1034	3.75	4.95	9	4.31	1951	Kentucky: Ohio	USA	1034	2.95	4.85	7	3.71	1951	Kentucky: Nicholas	USA
1034	3.92	7.37	10	4.9	1951	Kentucky:	USA	1034	2.95	4.75	10	3.95	1951	Kentucky:	USA
1034	6.1	8.88	6	7.74	1951	Kentucky: Todd	USA	1034	5.5	7	7	6.22	1951	Kentucky: Campbell	USA
1034				5.8	1951	Kentucky: Fayette	USA	1034				7.7	1951	Kentucky: Fayette	USA
1034				4	1951	Kentucky: Fayette	USA	1034				4.4	1951	Kentucky: Fayette	USA
1034	2.5	6.03	7	4.77	1951	Kentucky: Ballard	USA	1034				8.95	1951	Kentucky: Fayette	USA
1034	2.67	4.15	10	3.25	1951	Kentucky: Daviess	USA	1034				4.4	1951	Kentucky: Fayette	USA
1034	2.35	3.65	2	3	1951	Kentucky: Carlisle	USA	1034				6.6	1951	Kentucky: Fayette	USA
1034	4.1	4.76	4	4.31	1951	Kentucky: Butler	USA	1034	4.2	4.85	4	4.53	1951	Kentucky: Bracken	USA

Ref	Min	Max	No.	Av.	Year	Location	Country	Ref	Min	Max	No.	Av.	Year	Location	Country
1034	2.4	5.25	9	3.8	1951	Kentucky: Bourbon	USA	1034	2.25	3.34	7	2.83	1951	Kentucky: Boone	USA
1034	3.16	4.85	9	3.93	1951	Kentucky: Bath	USA	1034	4.88	8.75	10	6.68	1951	Kentucky: Barren	USA
1034	1.1	4.85	9	2.71	1951	Kentucky: Henry	USA	1034	4	6.85	8	5.8	1951	Kentucky: Adair	USA
1034	3.98	16.7	12	6.8	1951	Kentucky: Christain	USA	1034	4.68	7.12	5	5.43	1951	Kentucky: Hardin	USA
1034	4.3	6.87	10	5.2	1951	Kentucky:	USA	1034	5.17	8.34	9	6.48	1951	Kentucky: Hart	USA
1034	2.65	3.6	9	3.18	1951	Kentucky: Clark	USA	1034	3.1	4.9	11	3.99	1951	Kentucky: Harrison	USA
1034				4.05	1951	Kentucky: Fayette	USA	1034	4.45	6.15	4	5.55	1951	Kentucky: Green	USA
1034	4.65	6.93	6	5.34	1951	Kentucky: Graves	USA	1034	3.25	4.55	5	4.19	1951	Kentucky: Grant	USA
1034	2.6	6.35	8	4.74	1951	Kentucky: Fulton	USA	1034				6.3	1951	Kentucky: Fayette	USA
1034				4.7	1951	Kentucky: Fayette	USA	1034				4	1951	Kentucky: Fayette	USA
1034				9.7	1951	Kentucky: Fayette	USA	1034				7	1951	Kentucky: Fayette	USA
1034				6.7	1951	Kentucky: Fayette	USA	1034				5	1951	Kentucky: Fayette	USA
1034				4.7	1951	Kentucky: Fayette	USA	1034				6	1951	Kentucky: Fayette	USA
1034				4	1951	Kentucky: Fayette	USA	1035				0.015	1929	Nebraska: Saunders	USA
1035				0.015	1929	Nebraska: Saunders	USA	1035				0.015	1929	Nebraska: Butler	USA
1036				1.2	1954	New Jersey	USA	1036				1.6	1954	New Jersey	USA
1036				1.8	1954	New Jersey	USA	1036				4	1954	New Jersey	USA
1037				0.5	1941	Oregon	USA	1037				16.4	1941	Oregon	USA
1038			6	0.888	1928	South Carolina:	USA	1038			3	1.161	1928	South Carolina:	USA
1038			6	1.181	1928	South Carolina:	USA	1038			6	0.344	1928	South Carolina:	USA
1038			12	0.377	1928	South Carolina: State	USA	1038			12	0.246	1928	South Carolina: State	USA
1038			12	0.142	1928	South Carolina: State	USA	1038			3	1.176	1928	South Carolina:	USA
1038			6	0.185	1928	South Carolina:	USA	1038			6	1.023	1928	South Carolina:	USA
1038			3	0.684	1928	South Carolina:	USA	1038			5	0.188	1928	South Carolina:	USA
1038			5	0.419	1928	South Carolina:	USA	1038			5	0.627	1928	South Carolina:	USA
1038			15	0.304	1928	South Carolina:	USA	1038			15	0.508	1928	South Carolina:	USA
1038			15	0.838	1928	South Carolina:	USA	1038			6	0.707	1928	South Carolina:	USA
1039	6	14.3	4	8.9	1939	Texas:Rio Grande	USA	1039				3.1	1939	Texas:Rio Grande	USA
1039				35.4	1939	Texas:Rio Grande	USA	1039				28.1	1939	Texas:Rio Grande	USA
1039				20.8	1939	Texas:Rio Grande	USA	1039				6	1939	Texas:Rio Grande	USA
1039	17	23.7	2	20.4	1939	Texas:Rio Grande	USA	1039	4.5	7.5	2	6	1939	Texas:Rio Grande	USA
1039	3.3	4.5	2	3.9	1939	Texas:Rio Grande	USA	1039	2.6	9	2	5.8	1939	Texas:Rio Grande	USA
1039				4	1939	Texas:Rio Grande	USA	1039				4.7	1939	Texas:Rio Grande	USA
1039				1.5	1939	Texas: High Plains	USA	1039				2.4	1939	Texas:Rio Grande	USA
1039				8.9	1939	Texas:Rio Grande	USA	1039				5.5	1939	Texas:Rio Grande	USA
1039				8	1939	Texas:Rio Grande	USA	1039				14.1	1939	Texas:Rio Grande	USA
1039	1.7	8.5	3	4	1939	Texas:Rio Grande	USA	1039				22.7	1939	Texas:Rio Grande	USA
1039				2.2	1939	Texas:Rio Grande	USA	1039				3	1939	Texas:Rio Grande	USA
1039	7.3	24	3	14	1939	Texas:Rio Grande	USA	1039				2.6	1939	Texas:Rio Grande	USA
1039				7.5	1939	Texas:Rio Grande	USA	1039				5	1939	Texas:Rio Grande	USA
1039				5	1939	Texas:Rio Grande	USA	1039				8.3	1939	Texas:Rio Grande	USA
1039				3	1939	Texas:Rio Grande	USA	1039	9.9	14.3	3	11.4	1939	Texas: High Plains	USA
1039				10.2	1939	Texas:Rio Grande	USA	1039				18.9	1939	Texas:Rio Grande	USA
1039				1.6	1939	Texas: High Plains	USA	1039				2.9	1939	Texas:Rio Grande	USA
1039	1.6	2.5	3	2.2	1939	Texas: High Plains	USA	1039	0.6	1.4	2	1	1939	Texas: High Plains	USA
1039	4	9.2	2	6.6	1939	Texas: High Plains	USA	1039				3.3	1939	Texas: High Plains	USA
1039	2.4	5.5	2	4	1939	Texas: Mountains & USA	USA	1039	4	10.3	3	6.2	1939	Texas: High Plains	USA
1039	3.3	10.6	2	7	1939	Texas: Mountains & USA	USA	1039				1.9	1939	Texas: High Plains	USA
1039				3.6	1939	Texas: High Plains	USA	1039				5.9	1939	Texas: High Plains	USA
1039				11.9	1939	Texas: High Plains	USA	1039				14.2	1939	Texas:Rio Grande	USA
1039				5.5	1939	Texas: Rolling Plains	USA	1039	13	15.3	2	3.1	1939	Texas: High Plains	USA
1039				1.7	1939	Texas: Mountains & USA	USA	1039	2.6	3.5	2	3.1	1939	Texas: High Plains	USA
1039				14.1	1939	Texas:Rio Grande	USA	1039				9.9	1939	Texas: High Plains	USA
1039				4.9	1939	Texas:Rio Grande	USA	1039				4.7	1939	Texas:Rio Grande	USA
1039				3	1939	Texas: Mountains & USA	USA	1039				3.6	1939	Texas:Rio Grande	USA
1039				5.5	1939	Texas:Rio Grande	USA	1039	4.4	5.6	3	4.9	1939	Texas:Rio Grande	USA
1039	7.9	9.1	2	8.5	1939	Texas: Mountains & USA	USA	1039				2.7	1939	Texas: Mountains & USA	USA
1039	4.2	16.2	5	8.7	1939	Texas: Mountains & USA	USA	1039				4.7	1939	Texas: Mountains & USA	USA
1039	1.6	4.7	2	3.2	1939	Texas: Mountains & USA	USA	1039				3.2	1939	Texas: Mountains & USA	USA
1039	4.8	6.1	2	5.5	1939	Texas: Rolling Plains	USA	1039				3.6	1939	Texas:Rio Grande	USA
1039				2.6	1939	Texas: Rolling Plains	USA	1039				2.3	1939	Texas: Rolling Plains	USA
1039				1.5	1939	Texas: Rolling Plains	USA	1039	4.2	8.7	2	6.5	1939	Texas: Rolling Plains	USA
1039				16.5	1939	Texas: Rolling Plains	USA	1039				3.9	1939	Texas: Rolling Plains	USA
1039				7	1939	Texas: Rolling Plains	USA	1039	0.8	3.9	2	2.4	1939	Texas: Rolling Plains	USA
1039				6.9	1939	Texas: Rolling Plains	USA	1039				11.9	1939	Texas: Rolling Plains	USA
1039				2.5	1939	Texas: Rolling Plains	USA	1039				5.4	1939	Texas: Rolling Plains	USA
1039				12.6	1939	Texas: Rolling Plains	USA	1039	1.3	3.2	7	3.1	1939	Texas: Rolling Plains	USA
1039				3.7	1939	Texas: Rolling Plains	USA	1039				3.9	1939	Texas: Rolling Plains	USA
1039				1.6	1939	Texas: Gulf Coast	USA	1039				1.3	1939	Texas: High Plains	USA
1039	1	1.2	2	1.1	1939	Texas: West Cross	USA	1039	2.3	10.2	4	5.8	1939	Texas: West Cross	USA
1039				6.1	1939	Texas: Rolling Plains	USA	1039				9.7	1939	Texas: West Cross	USA
1039				9.5	1939	Texas: Rolling Plains	USA	1039				1.1	1939	Texas: Rolling Plains	USA
1039				3.7	1939	Texas: Rolling Plains	USA	1039	4.1	7	3	5.2	1939	Texas: Rolling Plains	USA
1039	6.7	11.4	4	9.1	1939	Texas: Rolling Plains	USA	1039	0.7	2.2	3	1.7	1939	Texas: Rolling Plains	USA
1039				5.2	1939	Texas: Rolling Plains	USA	1039				4.1	1939	Texas: Rolling Plains	USA
1039				2.2	1939	Texas: Rolling Plains	USA	1039				31.7	1939	Texas: Rolling Plains	USA
1039				12	1939	Texas: Rolling Plains	USA	1039				15.6	1939	Texas:Rio Grande	USA
1039				7.5	1939	Texas: Rolling Plains	USA	1039				6.2	1939	Texas: Rolling Plains	USA
1039				3.6	1939	Texas:Rio Grande	USA	1039	4.6	15	6	7.8	1939	Texas: Rolling Plains	USA
1039				4.4	1939	Texas:Rio Grande	USA	1039				9.8	1939	Texas: Rolling Plains	USA
1039				6.9	1939	Texas:Rio Grande	USA	1039				20.6	1939	Texas: Rolling Plains	USA
1039	11.2	11.2	2	11.2	1939	Texas:Rio Grande	USA	1039	4.5	13.7	5	7.2	1939	Texas:Rio Grande	USA
1039				2.7	1939	Texas:Rio Grande	USA	1039				2.2	1939	Texas:Rio Grande	USA
1039				4.8	1939	Texas:Rio Grande	USA	1039				2.7	1939	Texas:Rio Grande	USA
1039	4.3	29.3	6	14.9	1939	Texas: Rolling Plains	USA	1039				11.2	1939	Texas: Rolling Plains	USA

Ref	Min	Max	No.	Av.	Year	Location	Country	Ref	Min	Max	No.	Av.	Year	Location	Country
1039				9.1	1939	Texas: Rolling Plains	USA	1039				4.7	1939	Texas: Rolling Plains	USA
1039				4.7	1939	Texas: Rolling Plains	USA	1039	3.4	13	2	8.2	1939	Texas: Rolling Plains	USA
1039				6.1	1939	Texas: Rolling Plains	USA	1039	3.9	6.5	2	5.2	1939	Texas: Rolling Plains	USA
1039				14.2	1939	Texas: Rolling Plains	USA	1039				5.5	1939	Texas: Rolling Plains	USA
1039				6.1	1939	Texas: Rolling Plains	USA	1039				3.7	1939	Texas: Rolling Plains	USA
1039	2.1	3.7	2	2.9	1939	Texas: Rolling Plains	USA	1039				18.5	1939	Texas: Rolling Plains	USA
1039	3.9	10.6	2	7.3	1939	Texas: Rio Grande	USA	1039				3.1	1939	Texas: Rolling Plains	USA
1039				12.9	1939	Texas: East Texas	USA	1039				1.7	1939	Texas: East Texas	USA
1039	1	2	2	1.5	1939	Texas: East Texas	USA	1039				8.7	1939	Texas: East Texas	USA
1039				5.5	1939	Texas: East Texas	USA	1039				2	1939	Texas: East Texas	USA
1039				1	1939	Texas: East Texas	USA	1039				5.6	1939	Texas: East Texas	USA
1039	0.9	3.4	7	2.1	1939	Texas: East Texas	USA	1039				3	1939	Texas: East Texas	USA
1039	1.6	3	6	2.1	1939	Texas: East Texas	USA	1039				1.9	1939	Texas: East Texas	USA
1039				1.6	1939	Texas: East Texas	USA	1039				1.3	1939	Texas: East Texas	USA
1039				1.1	1939	Texas: East Texas	USA	1039				1.9	1939	Texas: East Texas	USA
1039	0.8	1.8	7	1.4	1939	Texas: East Texas	USA	1039	1.1	2.3	8	1.9	1939	Texas: East Texas	USA
1039				1	1939	Texas: East Texas	USA	1039				1.3	1939	Texas: East Texas	USA
1039				2.2	1939	Texas: East Texas	USA	1039				3.8	1939	Texas: East Texas	USA
1039				2.5	1939	Texas: East Texas	USA	1039	1.5	2.1	3	1.8	1939	Texas: East Texas	USA
1039				6.1	1939	Texas: East Texas	USA	1039				1.3	1939	Texas: East Texas	USA
1039	2.5	14	4	6.1	1939	Texas: East Texas	USA	1039	0.9	2.1	3	1.4	1939	Texas: East Texas	USA
1039				7.5	1939	Texas: East Texas	USA	1039				5.3	1939	Texas: East Texas	USA
1039				2.4	1939	Texas: East Texas	USA	1039				1.5	1939	Texas: East Texas	USA
1039				3.7	1939	Texas: Blackland	USA	1039	3.8	7.5	2	5.65	1939	Texas: Blackland	USA
1039	6.1	9.5	2	7.8	1939	Texas: Blackland	USA	1039	4.8	9	2	6.9	1939	Texas: Blackland	USA
1039	3.1	9.7	6	6.4	1939	Texas: Blackland	USA	1039	5.2	16.5	5	11.2	1939	Texas: Blackland	USA
1039				1.1	1939	Texas: East Texas	USA	1039				5.8	1939	Texas: Blackland	USA
1039	2.5	3.2	2	2.9	1939	Texas: Blackland	USA	1039	1.4	8.2	6	4	1939	Texas: Blackland	USA
1039	2.7	13.3	6	7	1939	Texas: Blackland	USA	1039	2.5	7.3	5	4.5	1939	Texas: Blackland	USA
1039	4.9	16.3	6	8.1	1939	Texas: Blackland	USA	1039				4.8	1939	Texas: High Plains	USA
1039				2.5	1939	Texas: Gulf Coast	USA	1039				10	1939	Texas: Blackland	USA
1039	1.9	7	6	3.1	1939	Texas: Blackland	USA	1039				4	1939	Texas: East Texas	USA
1039				2.2	1939	Texas: East Texas	USA	1039				1.8	1939	Texas: East Texas	USA
1039	1.1	2.6	3	1.7	1939	Texas: Central Basin	USA	1039				6.6	1939	Texas: Blackland	USA
1039				8.2	1939	Texas: Blackland	USA	1039				3.4	1939	Texas: Blackland	USA
1039				1.9	1939	Texas: Blackland	USA	1039	3.5	6.6	3	5.2	1939	Texas: Blackland	USA
1039	2.2	6.8	6	5	1939	Texas: Blackland	USA	1039				7	1939	Texas: Blackland	USA
1039				6.2	1939	Texas: Blackland	USA	1039	2.8	6.2	4	4.8	1939	Texas: Blackland	USA
1039	2.6	6.9	3	4.2	1939	Texas: Blackland	USA	1039				4.1	1939	Texas: East Texas	USA
1039				6.1	1939	Texas: Blackland	USA	1039	2.4	8.5	6	4.8	1939	Texas: Gulf Coast	USA
1039				1.2	1939	Texas: Gulf Coast	USA	1039	2.3	3.1	2	2.7	1939	Texas: Gulf Coast	USA
1039				2.9	1939	Texas: Gulf Coast	USA	1039				9.4	1939	Texas: Gulf Coast	USA
1039				9.9	1939	Texas: Gulf Coast	USA	1039				4.5	1939	Texas: Gulf Coast	USA
1039	1.3	9.7	5	4.1	1939	Texas: Gulf Coast	USA	1039				9.3	1939	Texas: Gulf Coast	USA
1039				1.5	1939	Texas: Gulf Coast	USA	1039				2	1939	Texas: Gulf Coast	USA
1039				0.9	1939	Texas: Gulf Coast	USA	1039				1.7	1939	Texas: High Plains	USA
1039	0.9	4.3	4	2.1	1939	Texas: Gulf Coast	USA	1039				5.2	1939	Texas: High Plains	USA
1039				9.7	1939	Texas: Gulf Coast	USA	1039				4.5	1939	Texas: High Plains	USA
1039	1.1	2.7	4	2	1939	Texas: East Texas	USA	1039				2.2	1939	Texas: East Texas	USA
1039				2.6	1939	Texas: High Plains	USA	1039	1.3	7	7	4.3	1939	Texas: High Plains	USA
1039				8.5	1939	Texas: High Plains	USA	1039	1.2	4.4	2	2.8	1939	Texas: Gulf Coast	USA
1039				2.6	1939	Texas: High Plains	USA	1039	2.9	8.2	4	4.7	1939	Texas: Gulf Coast	USA
1039			3	4.6	1939	Texas: High Plains	USA	1039				3.2	1939	Texas: Gulf Coast	USA
1039				1.9	1939	Texas: Gulf Coast	USA	1039				3.5	1939	Texas: Gulf Coast	USA
1039	3.1	9.3	3	6	1939	Texas: Gulf Coast	USA	1039	2.4	12	2	7.2	1939	Texas: Gulf Coast	USA
1039				18.4	1939	Texas: High Plains	USA	1039				6.4	1939	Texas: East Texas	USA
1039				6.3	1939	Texas: East Texas	USA	1039				4.2	1939	Texas: East Texas	USA
1039				1.9	1939	Texas: East Texas	USA	1039	1.9	2.6	3	2.3	1939	Texas: East Texas	USA
1039				10.7	1939	Texas: East Texas	USA	1039				3.1	1939	Texas: East Texas	USA
1039	8.1	16.4	2	12.3	1939	Texas: Edwards	USA	1039	0.5	8.1	8	2.6	1939	Texas: East Texas	USA
1039				2.6	1939	Texas: East Texas	USA	1039				2.4	1939	Texas: East Texas	USA
1039				2	1939	Texas: Gulf Coast	USA	1039				3.3	1939	Texas: East Texas	USA
1039				2.6	1939	Texas: East Texas	USA	1039				1.7	1939	Texas: East Texas	USA
1039				10	1939	Texas: East Texas	USA	1039				8.1	1939	Texas: East Texas	USA
1039	1.2	6.5	3	3.3	1939	Texas: Gulf Coast	USA	1039	1.2	4.7	7	2.5	1939	Texas: Gulf Coast	USA
1039	2	3.3	3	2.7	1939	Texas: East Texas	USA	1039				9.6	1939	Texas: Gulf Coast	USA
1039				1.2	1939	Texas: Gulf Coast	USA	1039	5.8	18	4	10.9	1939	Texas: Edwards	USA
1039				3.3	1939	Texas: Gulf Coast	USA	1039				9.3	1939	Texas: Gulf Coast	USA
1039				2.1	1939	Texas: Gulf Coast	USA	1039				4.4	1939	Texas: Gulf Coast	USA
1039	7.1	20.2	3	11.8	1939	Texas: Grand Prairie	USA	1039	8.1	16.4	2	12.3	1939	Texas: Grand Prairie	USA
1039				24.6	1939	Texas: Grand Prairie	USA	1039	5.5	7.4	3	6.4	1939	Texas: Grand Prairie	USA
1039	2.3	6	2	4.2	1939	Texas: Grand Prairie	USA	1039				1	1939	Texas: Gulf Coast	USA
1040				6.057	1940	Texas: Travis	USA	1040				11.73	1940	Texas: Nueces	USA
1040				12.61	1940	Texas: Nueces	USA	1040				6.453	1940	Texas: Nueces	USA
1040				4.956	1940	Texas: Travis	USA	1040	1.174	2.64	2	1.907	1940	Texas: McLeannan	USA
1040	1.174	1.174	2	1.174	1940	Texas: McLeannan	USA	1040	0.587	0.587	2	0.587	1940	Texas: McLeannan	USA
1040				2.753	1940	Texas: Travis	USA	1040				6.325	1940	Texas: Hunt County	USA
1040				7.71	1940	Texas: Williamson	USA	1040				2.029	1940	Texas: Hunt County	USA
1040	2.347	5.28	4	3.813	1940	Texas: Hunt County	USA	1040	0.125	0.253	2	0.189	1940	Texas: McLeannan	USA
1040				1.101	1940	Texas: Travis	USA	1040				2.913	1940	Texas: Travis	USA
1040				3.045	1940	Texas: Travis	USA	1040				4.236	1940	Texas: Travis	USA
1040				4.243	1940	Texas: Travis	USA	1040				22.03	1940	Texas: Williamson	USA
1040				23.13	1940	Texas: Williamson	USA	1040	4.693	10.27	3	6.651	1940	Texas: Williamson	USA
1040	4.106	8.799	3	6.843	1940	Texas: Williamson	USA	1040	4.693	8.799	3	6.257	1940	Texas: Williamson	USA
1040	5.28	11.15	3	8.214	1940	Texas: Williamson	USA	1040				7.333	1940	Texas: Bell County	USA

Ref	Min	Max	No.	Av.	Year	Location	Country	Ref	Min	Max	No.	Av.	Year	Location	Country			
1040	0.88	5.866	4	4.107	1940	Texas: Hunt County	USA	1040				20.93	1940	Texas: Williamson	USA			
1040	12.91	18.72	2	15.815	1940	Texas: Caldwell	USA	1040				4.106	1940	Texas: Bell County	USA			
1040				10.55	1940	Texas: Bell County	USA	1040				7.626	1940	Texas: Bell County	USA			
1040	7.599	8.921	2	8.26	1940	Texas: Bexar County	USA	1040	4.224	7.764	2	5.994	1940	Texas: Bexar County	USA			
1040	6.608	7.434	2	7.021	1940	Texas: Bexar County	USA	1040	15.89	16.52	2	16.205	1940	Texas: Caldwell	USA			
1040	1.174	3.226	3	2.443	1940	Texas: Hunt County	USA	1040	7.626	18.15	2	12.888	1940	Texas: Caldwell	USA			
1040	9.679	22.03	2	15.855	1940	Texas: Caldwell	USA	1040	3.226	4.396	3	3.616	1940	Texas: Dallas	USA			
1040	2.347	4.989	3	3.619	1940	Texas: Dallas	USA	1040	2.64	4.693	3	3.52	1940	Texas: Dallas	USA			
1040	0.587	4.396	3	2.6	1940	Texas: Hunt County	USA	1040				4.243	1940	Texas: Falls County	USA			
1040				6.994	1940	Texas: Falls County	USA	1040				2.973	1940	Texas: Falls County	USA			
1040				8.213	1940	Texas: Falls County	USA	1040	0.88	2.347	2	1.614	1940	Texas: Hidalgo	USA			
1040	2.053	3.52	2	2.787	1940	Texas: Hidalgo	USA	1040	3.226	4.693	2	3.96	1940	Texas: Hidalgo	USA			
1040	2.053	3.226	2	2.64	1940	Texas: Hidalgo	USA	1040	6.057	6.057	2	6.057	1940	Texas: Hunt County	USA			
1040	4.956	6.057	2	5.507	1940	Texas: Hunt County	USA	1040	4.405	5.507	2	4.956	1940	Texas: Hunt County	USA			
1040	4.405	7.709	2	6.057	1940	Texas: Hunt County	USA	1040	2.346	5.866	3	4.497	1940	Texas: Dallas	USA			
1040	6.278	10.07	2	8.174	1940	Texas: Bexar County	USA	1041				16.14	1920	Washington:	USA			
1041				15.36	1920	Washington:	USA	1042				0.2	1929	Salta: Chicoana	Argentina			
1042				0.14	1929	Salta: Tasil	Argentina	1042	1.8	2.8	5	2.3	1929	Buenos Aries	Argentina			
1042				0.17	1929	Salta: Silleta	Argentina	1042				0.35	1929	Salta: Rosario de los	Argentina			
1042				0.155	1929	Salta: Rosario de	Argentina	1042				0.67	1929	Salta: Rosario de la	Argentina			
1042				0.16	1929	Salta: Pucará	Argentina	1042				0.2	1929	Salta: La Viña	Argentina			
1042				0.38	1929	Salta: Güemes	Argentina	1042				0.17	1929	Salta: Gólgota	Argentina			
1042				2.4	1929	Buenos Aries: Wilde	Argentina	1042				2.8	1929	Buenos Aries: Olivos	Argentina			
1042				0.16	1929	Salta: Cerrillos	Argentina	1042				2.6	1929	Buenos Aries: Lanús	Argentina			
1042				0.18	1929	Salta	Argentina	1042				0.17	1929	Salta: Alemania	Argentina			
1042				0.2	1929	Salta: Alvarado	Argentina	1042				0.25	1929	Salta: Anta	Argentina			
1042				0.19	1929	Salta: Carfayate	Argentina	1042				0.17	1929	Salta: Campo	Argentina			
1042				0.4	1929	Salta: Campo Santo	Argentina	1043				5.5	1945	Córdoba: Cruz del	USA			
1044	0.053	0.203	20	0.115	1935	Rancagua: San	Chile	1044	0.295	1.012	20	0.554	1935	Santiago	Chile			
1045				0.037	1945	Huamachuco	Peru	1045				1.822	1945	Pajján	Peru			
1045				1.923	1945	Trujillo	Peru	1045				1.9	1945	Sausal	Peru			
1045				0.09	1945	Quiruvilca	Peru	1045				1.401	1945	Otuzco	Peru			
1045				0.631	1945	Contumazá	Peru	1045				1.917	1945	Chiclayo	Peru			
1045				1.321	1945	Cascas	Peru	1045				1.903	1945	Pacasmayo	Peru			
1045				1.502	1945	Casa Gde	Peru	1046				4	13.5	5	9.3	1951	Florida	Uruguay
1046	2	10	9	6	1948	San José	Uruguay	1046	5.5	10	3	7	1948	Soriano	Uruguay			
1046	3	10	26	5.5	1948	Tacuarembó	Uruguay	1046	1	20	30	7	1948	Treinta y Tres	Uruguay			
1046	7.5	7.5	2	7.5	1951	Canelones	Uruguay	1046	2.5	10	5	6.1	1951	Florida	Uruguay			
1046	3.5	10	8	6	1948	Salto	Uruguay	1046	2.5	6.5	9	4.1	1951	Treinta y Tres	Uruguay			
1046	5.5	12	3	9.2	1951	Treinta y Tres	Uruguay	1046	4.5	6	2	5.25	1951	Canelones	Uruguay			
1046	5	6	2	5.5	1951	Colonia	Uruguay	1046	1	7.5	5	3	1948	Durazno	Uruguay			
1046	0	16	20	6.5	1948	Rocha	Uruguay	1046	2.5	3	2	2.75	1951	Colonia	Uruguay			
1046	4	12	5	10	1948	Canelones	Uruguay	1046	1	12	15	5	1948	Colonia	Uruguay			
1046	1	10	10	5	1948	Flores	Uruguay	1046	4	10	15	7	1948	Florida	Uruguay			
1046	2	11	19	6	1948	Artigas	Uruguay	1046				16	1948	Maldonado	Uruguay			
1046	8	10	4	9	1948	Montevideo	Uruguay	1046	3	8	18	5	1948	Rivera	Uruguay			
1046	0	15	25	7	1948	Paysandú	Uruguay	1046	2	20	33	9	1948	Lavalleia	Uruguay			
1046	1	10	34	5	1948	Cerro Largo	Uruguay	1046	3	12	19	8	1948	Rio Negro	Uruguay			
1047				12	1929	Wellington: between	New Zealand	1047	5	36	6	16.5	1929	Wellington: Ohau	New Zealand			
1047				22	1929	Wellington: Ngaio	New Zealand	1047	14.5	46	13	34.3	1929	Wellington: Manakau	New Zealand			
1047	12	40	9	24.4	1929	Wellington: Levin	New Zealand	1047	7	13.5	7	9.4	1929	Wellington: Otaki	New Zealand			
1047	3	10	7	6.8	1929	Wellington:	New Zealand	1047	3	4.5	5	3.6	1929	Wellington:	New Zealand			
1047	2	8	12	4.7	1929	Wellington:	New Zealand	1047	3.5	3.5	2	3.5	1929	Wellington: Petone	New Zealand			
1047	4.5	9	6	6.2	1929	Wellington:	New Zealand	1047	4.5	24	11	10.6	1929	Wellington: Shannon	New Zealand			
1047				5	1929	Wellington: Taita	New Zealand	1047	4	12.6	6	8.8	1929	Wellington:	New Zealand			
1047	5.8	7.5	2	6.7	1929	Wellington:	New Zealand	1047	1	2.5	2	1.8	1929	Wellington:	New Zealand			
1047	1	12.7	13	6.3	1929	Wellington:	New Zealand	1047	3.8	15	9	9.1	1929	Wellington: Te Horo	New Zealand			
1047	30	33	5	30.9	1929	Taranaki: Normanby	New Zealand	1047	4.5	210	44	59.7	1929	Auckland:	New Zealand			
1047	2.2	29	19	8	1929	Auckland: Gisborne	New Zealand	1047	1.8	22	20	7.4	1929	Auckland: Thames	New Zealand			
1047	19	105	24	48.8	1929	Auckland: Waihi	New Zealand	1047	30	40	7	35.6	1929	Taranaki: Hawera	New Zealand			
1047	12	24	9	17.5	1929	Taranaki: Kaponga	New Zealand	1047	0.8	21	13	4.7	1929	Wellington: Foxton	New Zealand			
1047	31.5	135	8	87.7	1929	Taranaki: New	New Zealand	1047	6.3	8	4	7.6	1929	Wellington: Karori	New Zealand			
1047	19	36	9	28	1929	Taranaki: Stratford	New Zealand	1047	3	9	2	6	1929	Wellington: Day's	New Zealand			
1047				8.5	1929	Wellington: Epuni	New Zealand	1047	2.5	6	4	3.7	1929	Wellington: Hutt	New Zealand			
1047	6	12	5	9.4	1929	Wellington: Hutt	New Zealand	1047	3.3	22	4	8.9	1929	Wellington:	New Zealand			
1047	7	24	6	16.1	1929	Wellington: Karori	New Zealand	1047	30	39	4	35	1929	Taranaki: Maniaia	New Zealand			
1048	3	187.5	50	100.5	1934	Taranaki: New	New Zealand	1048	2.5	102	224	12.6	1934	Auckland: Thames	New Zealand			
1048	1	14	50	4.5	1934	Wellington:	New Zealand	1049				1.5	1936	Auckland: Albany	New Zealand			
1049				16	1936	Hawke's Bay:	New Zealand	1049				10.5	1936	Hawke's Bay:	New Zealand			
1049				1.5	1936	Canterbury:	New Zealand	1049				5	1936	Canterbury:	New Zealand			
1049				5	1936	Canterbury:	New Zealand	1049				6	1936	Canterbury:	New Zealand			
1049				3	1936	Canterbury: Hatfield	New Zealand	1049				3	1936	Auckland: Te Rapa	New Zealand			
1049				5	1936	Canterbury:	New Zealand	1049				10.5	1936	Nelson: Glenhope	New Zealand			
1049				6	1936	Auckland: Waerenga	New Zealand	1049				11	1936	Auckland: Tokoroa	New Zealand			
1049				58	1936	Auckland: Tirau	New Zealand	1049				55	1936	Auckland: Tirau	New Zealand			
1049				60	1936	Auckland: Tirau	New Zealand	1049				3	1936	Canterbury:	New Zealand			
1049				32	1936	Taranaki: Kaimata	New Zealand	1049				15	1936	Wellington: Hihitahi	New Zealand			
1049				11.5	1936	Wellington: Hihitahi	New Zealand	1049				46	1936	Taranaki: Tikorangi	New Zealand			
1049				8	1936	Taranaki: Stratford	New Zealand	1049	16.5	30	3	21.5	1936	Taranaki: Stratford	New Zealand			
1049				60	1936	Taranaki: New	New Zealand	1049				11.5	1936	Hawke's Bay:	New Zealand			
1049	30	33	2	31.5	1936	Taranaki: Maniaia	New Zealand	1049				7	1936	Hawke's Bay:	New Zealand			
1049				39	1936	Taranaki: Inglewood	New Zealand	1049				30	1936	Taranaki: Hawera	New Zealand			
1049				60	1936	Taranaki: Bell Block	New Zealand	1049				1	1936	Otago: Fruitlands	New Zealand			
1049				4.5	1936	Nelson: Glenhope	New Zealand	1049				9.5	1936	Nelson: Glenhope	New Zealand			
1049				11.5	1936	Auckland: Tokoroa	New Zealand	1049				12	1936	Taranaki: Mangatoki	New Zealand			

Ref	Min	Max	No.	Av.	Year	Location	Country	Ref	Min	Max	No.	Av.	Year	Location	Country
1049				65	1936	Auckland: Kihikihi	New Zealand	1049				5.5	1936	Auckland: Lake	New Zealand
1049				5	1936	Auckland: Lake	New Zealand	1049				9.5	1936	Auckland: Lake	New Zealand
1049				19.5	1936	Auckland: Kopaki	New Zealand	1049				13	1936	Auckland: Kopaki	New Zealand
1049				36	1936	Auckland: Te Rapa	New Zealand	1049				8.5	1936	Auckland: Lake	New Zealand
1049				5	1936	Auckland:	New Zealand	1049				7	1936	Auckland: Kopaki	New Zealand
1049				48	1936	Auckland: Kerikeri	New Zealand	1049				12	1936	Auckland: Horotiu	New Zealand
1049				3.5	1936	Auckland: Galatea	New Zealand	1049	1	1.5	2	1.25	1936	Auckland: Galatea	New Zealand
1049				3	1936	Auckland: Galatea	New Zealand	1049				9	1936	Auckland: Atiamuri	New Zealand
1049				8	1936	Auckland: Atiamuri	New Zealand	1049				3	1936	Auckland: Kirikopuni	New Zealand
1049				6	1936	Auckland: Te	New Zealand	1049				72	1936	Auckland: Kihikihi	New Zealand
1049				15	1936	Auckland: Te Rapa	New Zealand	1049	17	150	2	83.5	1936	Auckland: Mairoa	New Zealand
1049				27.5	1936	Auckland: Te	New Zealand	1049	9.5	24	3	17.8	1936	Auckland: Tauranga	New Zealand
1049				0.5	1936	Auckland: Rotorua	New Zealand	1049				1	1936	Auckland: Rotorua	New Zealand
1049				22.5	1936	Auckland: Pukeroa	New Zealand	1049				135	1936	Auckland: Otorhanga	New Zealand
1049				8	1936	Auckland: Opepe	New Zealand	1049				11.2	1936	Auckland: Ngaroma	New Zealand
1049				10.5	1936	Auckland: Ngaroma	New Zealand	1049				2	1936	Auckland: Murupara	New Zealand
1049				3	1936	Auckland: Murupara	New Zealand	1049				32	1936	Auckland: Mamaku	New Zealand
1049				20	1936	Auckland: Mamaku	New Zealand	1049				11	1936	Auckland: Mamaku	New Zealand
1049				7	1936	Auckland: Opepe	New Zealand	1050				15	1936	Southland: Waianiwa	New Zealand
1050				11	1936	Southland: Kapuka	New Zealand	1050				11	1936	Southland: Waipango	New Zealand
1050				6	1936	Southland: Titipua	New Zealand	1050	12	14	4	13	1936	Southland: Morton	New Zealand
1051	8.6	31	11	21.3	1936	Maui	Pacific Islands	1051	75.2	111	4	93	1936	Hawaii	Pacific Islands
1088	0.13	10	25	3.19	1998	Anuradhapura	Sri Lanka	1088	0.13	4.6	30	2.2	1998	Kandy Region	Sri Lanka
1088	1	9.6	20	4.38	1998	Kalutara Region	Sri Lanka	1141	0.3	3.9	25	1.11	2001	Commune148,	China
1141	0.3	2.93	25	1.16	2001	Kuqa, Xinjiang	China	1141	0.3	1.73	26	0.89	2001	Wushi, Xinjiang	China
1142	0.88	7.14	24	2.76	2002	Agadir Region	Morocco	1142	0.32	3.12	28	1.47	2002	Ounein Valley, Anti	Morocco

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