

Environment Canada Imaging Cover Page

Report N.:



\* C D S - 1 4 - 6 5 \*

SKP Box Number: 672572447

AVERAGE SOIL TEMPERATURE

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GDS #65

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The first installations in a Meteorological Branch soil temperature network were made in 1958. Twice daily values of the observations at all sites for all levels have been published, since January, 1961, in the Monthly Record of Meteorological Observations in Canada. Similar data for 1959-60 have been published jointly by the Research Branch of the Canada Department of Agriculture and the Meteorological Branch of the Department of Transport under the title "Soil Temperature Records at Eight Localities in Canada 1959-60".

A general description of the network is available from the Meteorological Branch in publication DS #7-64, "Soil Temperature Network". A description of the instruments and their installation will be found in Meteorological Branch Circular 3545, INS-102, 17 Oct. 1961.

In the average values which follow data for the period 1960-64 have been used. No averages are included where the data were for less than two years. Monthly averages are listed for both the early morning and late afternoon readings of temperature at the 1 cm. and 10 cm. levels but, due to the small diurnal variations at greater depths, only the averages for the afternoon observations are listed for the lower levels. The periods on which the averages are based are listed with the averages for each station. Stations included are:

<u>STATION</u>	<u>PROVINCE</u>	<u>LAT.</u>	<u>LONG.</u>	<u>ELEV.(ft.)</u>
VANCOUVER UBC	B.C.	49° 16'	123° 15'	305
HAINES JUNCTION	Y.T.	60° 46'	137° 35'	1960
FORT SIMPSON CDA	N.W.T.	61° 52'	121° 21'	430
FORT VERMILION CDA	ALTA.	58° 23'	116° 03'	915
SWIFT CURRENT CDA	SASK.	50° 16'	107° 44'	2707
GUELPH OAC	ONE.	43° 32'	80° 15'	1095
HARROW CDA	ONT.	42° 02'	82° 53'	626
OTTAWA CDA	ONT.	45° 24'	75° 43'	260
TORONTO	ONT.	43° 40'	79° 24'	379
NORMANDIN CDA	QUE.	48° 51'	72° 32'	450
LA POCA TIERE CDA	QUE.	47° 21'	70° 02'	100
FREDERICTON CDA	N.B.	45° 55'	66° 37'	130
CHARLOTTETOWN CDA	P.E.I.	46° 15'	63° 08'	74
ST. JOHN'S WEST CDA	NFLD.	47° 31'	52° 47'	375

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Climatology Division,  
Meteorological Branch,  
315 Bloor Street West,  
Toronto 5, Ontario.

May 12, 1965.

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AVERAGE SOIL TEMPERATURE (°F)

VANCOUVER UBC

PERIOD OCTOBER 1960 - DECEMBER 1964

<u>DEPTH</u>		<u>Jan.</u>	<u>Feb.</u>	<u>Mar.</u>	<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>
1 cm.	a.m.	37.8	40.4	41.6	48.8	55.5	62.7	65.2	64.8	59.4	52.1	42.7	38.5
1 cm.	p.m.	39.6	44.4	47.2	56.9	65.2	73.8	76.8	74.8	66.4	56.2	45.4	40.0
10 cm.	a.m.	39.5	42.0	42.9	50.3	56.8	64.1	66.9	67.1	61.8	54.1	44.8	40.1
10 cm.	p.m.	39.8	42.9	45.3	52.6	58.9	66.4	69.1	68.6	63.1	55.1	45.6	40.5
20 cm.	p.m.	40.3	42.6	44.2	50.7	56.7	63.9	66.7	67.1	62.4	55.1	46.3	41.2
50 cm.	p.m.	42.7	43.6	45.8	49.9	55.0	61.4	64.5	65.8	62.7	56.6	49.3	44.1
*100 cm.	p.m.	46.2	45.4	45.6	48.9	52.8	57.8	61.3	63.6	63.0	58.0	52.3	47.4
150 cm.	p.m.	47.6	46.5	46.3	48.5	51.5	55.6	58.9	61.3	61.4	58.7	54.3	49.9

\* data for 100 cm. level missing for the period October to December, 1963.

HAINES JUNCTION

PERIOD SEPTEMBER 1962 - DECEMBER 1964

<u>DEPTH</u>		<u>Jan.</u>	<u>Feb.</u>	<u>Mar.</u>	<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>
1 cm.	a.m.	22.9	24.3	24.5	29.8	38.8	51.4	55.3	51.9	42.7	34.3	26.1	22.4
1 cm.	p.m.	22.9	24.3	24.5	30.2	44.4	57.6	61.7	59.2	48.3	36.1	26.1	22.5
10 cm.	a.m.	23.5	24.7	24.7	29.6	36.7	48.6	53.3	51.5	43.2	35.2	27.0	23.1
10 cm.	p.m.	23.4	24.7	24.7	29.8	39.5	52.6	57.5	55.4	46.0	35.8	26.8	23.1
20 cm.	p.m.	24.8	25.5	25.9	29.6	36.0	47.5	52.8	52.3	44.8	36.6	29.4	24.9
50 cm.	p.m.	28.5	28.0	28.1	30.0	32.5	41.7	48.2	49.3	44.2	38.2	32.8	29.3
100 cm.	p.m.	31.9	31.5	31.2	31.2	31.9	34.7	42.1	44.7	42.4	39.4	35.8	33.0
150 cm.	p.m.	33.5	32.8	32.4	32.0	32.2	33.4	38.3	41.2	40.8	39.3	37.1	34.8

FORT SIMPSON GDA

PERIOD JANUARY 1960 - DECEMBER 1964

<u>DEPTH</u>		<u>Jan.</u>	<u>Feb.</u>	<u>Mar.</u>	<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>
* 1 cm.	a.m.	20.0	20.4	20.5	27.7	40.6	56.8	61.4	57.9	42.3	33.1	25.2	19.9
* 1 cm.	p.m.	20.0	20.3	20.5	28.4	46.8	62.8	67.9	64.1	48.1	34.9	25.2	19.9
* 10 cm.	a.m.	20.9	20.9	21.0	27.4	38.7	53.9	58.9	57.6	44.4	26.9	27.1	21.5
* 10 cm.	p.m.	20.9	20.8	21.0	27.4	41.6	57.6	63.3	61.1	46.7	37.0	27.1	21.4
* 20 cm.	p.m.	21.5	21.2	21.1	26.7	36.8	51.8	58.1	57.3	45.0	35.3	28.1	22.6
* 50 cm.	p.m.	27.2	26.0	25.1	27.4	31.8	41.4	49.6	52.3	45.1	37.7	32.6	29.7
*100 cm.	p.m.	31.4	30.7	29.8	29.5	30.8	31.9	37.1	43.4	42.3	38.1	33.9	32.2
*150 cm.	p.m.	32.0	32.0	31.9	31.7	31.6	31.8	32.3	36.7	38.8	37.3	34.3	32.6

\* data missing for October and November, 1960.

FORT VERMILION GDA

PERIOD JANUARY 1960 - DECEMBER 1964.

<u>DEPTH</u>		<u>Jan.</u>	<u>Feb.</u>	<u>Mar.</u>	<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>
1 cm.	a.m.	19.6	22.0	24.0	32.5	46.3	60.7	64.1	59.7	45.9	35.9	27.9	21.3
1 cm.	p.m.	19.8	22.2	24.2	36.7	57.1	74.8	76.3	71.3	54.1	40.1	28.1	21.5
10 cm.	a.m.	20.8	22.7	24.5	32.3	44.2	57.2	61.9	59.7	45.6	37.8	29.4	22.5
10 cm.	p.m.	20.8	22.8	24.6	34.3	51.5	65.8	70.2	66.8	52.3	39.9	29.4	22.7
20 cm.	p.m.	22.8	24.0	25.3	32.7	46.3	59.5	64.6	63.2	50.8	39.9	31.1	24.7
50 cm.	p.m.	26.0	26.2	26.9	31.3	40.1	53.2	59.7	60.2	51.0	41.6	33.9	28.2
100 cm.	p.m.	31.0	30.1	29.9	31.1	33.3	45.0	53.7	56.4	51.4	44.5	37.7	33.6
150 cm.	p.m.	33.9	32.8	32.2	32.2	32.4	39.3	48.3	52.4	48.6	45.8	40.3	36.3

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AVERAGE SOIL TEMPERATURE (°F)

SWIFT CURRENT CDA

PERIOD JUNE 1962 - DECEMBER 1964

DEPTH		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
10 cm.	a.m.	17.3	22.9	27.1	39.6	49.5	58.7	65.5	63.5	52.9	44.5	32.1	21.4
10 cm.	p.m.	17.9	24.0	28.6	45.1	57.1	67.4	74.9	71.9	59.5	49.2	33.9	21.8
20 cm.	p.m.	18.5	23.8	27.6	40.9	51.8	61.6	68.7	66.8	56.2	47.7	34.5	22.8
50 cm.	p.m.	24.7	26.2	28.9	37.9	47.6	56.8	64.0	64.4	56.7	50.1	39.5	29.0
100 cm.	p.m.	31.8	30.0	30.6	34.5	42.2	49.8	56.7	59.9	56.7	52.4	45.3	36.6
150 cm.	p.m.	35.2	32.4	31.8	33.7	40.1	46.5	53.1	57.0	55.9	52.7	47.4	40.0

GUELPH OAC

PERIOD AUGUST 1962 - DECEMBER 1964

DEPTH		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1 cm.	a.m.	28.5	26.2	31.2	39.4	52.8	61.5	66.5	62.6	55.5	47.3	40.0	32.4
* 1 cm.	p.m.	29.3	28.3	32.4	45.0	63.5	72.4	78.3	72.6	66.9	55.0	42.6	33.5
10 cm.	a.m.	30.0	27.6	31.2	38.7	51.7	60.6	65.9	62.6	57.0	49.2	41.4	33.8
* 10 cm.	p.m.	30.2	28.5	31.6	42.4	58.6	67.5	73.5	68.9	63.8	53.3	43.2	34.5
* 20 cm.	p.m.	31.8	29.6	31.4	39.8	53.4	61.7	67.3	64.7	60.2	51.8	43.6	35.8
* 50 cm.	p.m.	35.0	32.4	32.6	38.2	49.9	57.5	62.8	62.2	59.8	52.8	46.0	38.5
* 150 cm.	p.m.	40.5	38.0	36.3	37.9	45.1	51.5	56.3	58.0	57.6	54.1	49.6	44.6

\* data for December, 1963 missing.

HARROW CDA

PERIOD AUGUST 1960 - DECEMBER 1964

DEPTH		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1 cm.	a.m.	28.2	28.7	33.3	41.1	53.9	63.4	68.6	67.1	63.1	52.1	42.6	33.2
1 cm.	p.m.	29.5	30.4	36.3	48.4	61.8	72.0	79.1	76.0	70.1	58.8	46.0	34.1
10 cm.	a.m.	30.1	29.9	34.0	42.0	54.6	64.1	69.9	69.1	65.2	55.0	45.0	35.2
10 cm.	p.m.	30.6	30.5	35.1	45.5	58.3	68.1	74.9	73.1	68.5	58.0	46.4	35.2
20 cm.	p.m.	31.4	30.6	34.0	42.8	55.1	64.6	70.8	70.3	66.7	57.1	46.7	36.6
50 cm.	p.m.	34.7	32.8	34.2	41.0	52.3	61.3	67.3	68.4	66.3	58.7	49.8	40.3
100 cm.	p.m.	38.8	36.2	35.7	39.8	49.0	57.2	63.0	65.6	65.0	59.9	52.9	44.8
150 cm.	p.m.	42.2	39.2	37.6	40.0	47.1	54.2	59.8	62.9	63.3	60.0	54.7	48.0

OTTAWA CDA

PERIOD JANUARY 1960 - DECEMBER 1964

DEPTH		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1 cm.	a.m.	31.1	30.8	31.4	39.0	53.9	63.5	67.7	64.6	57.1	46.4	37.3	31.0
1 cm.	p.m.	31.1	31.4	31.8	45.7	63.2	75.2	79.3	75.8	66.4	53.6	39.8	31.6
10 cm.	a.m.	32.1	31.5	31.9	39.1	53.3	62.0	66.3	64.0	58.2	48.2	39.5	32.9
10 cm.	p.m.	32.0	31.5	31.9	42.4	57.8	68.0	72.3	69.8	62.7	51.4	40.6	33.1
20 cm.	p.m.	32.6	31.9	32.1	41.1	55.3	64.7	69.1	67.2	61.0	50.9	41.3	34.0
50 cm.	p.m.	35.4	34.2	33.8	39.5	51.0	59.2	63.9	63.7	60.2	52.3	43.8	37.4
100 cm.	p.m.	38.5	36.6	35.8	39.2	46.9	54.0	59.0	60.5	49.0	47.5	47.1	40.9
150 cm.	p.m.	41.0	38.9	37.5	39.8	44.7	51.1	56.0	58.5	58.0	54.1	49.2	43.7

The first part of the document discusses the importance of maintaining accurate records. It emphasizes that proper record-keeping is essential for the efficient operation of any organization. The text outlines various methods for organizing and storing data, including the use of filing systems and digital databases. It also highlights the need for regular audits and updates to ensure the reliability of the information.

In the second section, the author addresses the challenges of data security. With the increasing reliance on technology, the risk of data breaches and cyberattacks has become a significant concern. The document provides a comprehensive overview of security protocols, including password management, encryption techniques, and access control measures. It also discusses the importance of employee training and awareness in maintaining a secure environment.

The third part of the document focuses on data analysis and reporting. It explores various statistical methods and software tools used to interpret large volumes of data. The author stresses the importance of clear and concise reporting to facilitate decision-making. The text includes examples of data visualization techniques, such as charts and graphs, and discusses how to effectively communicate complex information to a diverse audience.

The fourth section discusses the integration of data with other organizational systems. It highlights the benefits of data integration, such as improved data accuracy and streamlined processes. The author provides a detailed look at how data can be shared and utilized across different departments and systems, ensuring that all stakeholders have access to the most up-to-date information.

Finally, the document concludes with a summary of key findings and recommendations. It reiterates the importance of a data-driven approach and provides actionable steps for organizations to improve their data management practices. The author encourages a culture of continuous learning and innovation in data management.

In conclusion, this document provides a thorough examination of data management practices. It covers the entire data lifecycle, from collection and storage to analysis and reporting. By following the guidelines and recommendations provided, organizations can optimize their data management processes and maximize the value of their data assets.

TORONTO AVERAGE SOIL TEMPERATURE (°F) PERIOD DECEMBER 1960-DEC.1964

<u>DEPTH</u>		<u>Jan.</u>	<u>Feb.</u>	<u>Mar.</u>	<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>
5 cm.	a.m.	27.7	27.5	33.3	41.8	54.8	64.1	69.6	66.0	60.5	51.7	42.1	33.3
5 cm.	p.m.	28.6	29.0	35.3	48.0	62.8	72.9	77.7	72.2	65.9	56.2	44.3	33.7
10 cm.	a.m.	30.4	29.6	34.1	43.1	55.9	65.0	70.7	67.5	62.6	54.1	44.5	35.6
10 cm.	p.m.	30.5	29.9	34.7	45.5	57.5	66.7	72.0	68.8	63.8	54.9	45.0	35.6
50 cm.	p.m.	34.6	33.4	34.7	42.9	53.9	62.1	67.7	66.7	63.2	55.9	47.5	39.1
100 cm.	p.m.	41.5	38.6	38.4	42.5	50.0	56.7	62.1	64.0	62.8	58.2	52.7	45.9
150 cm.	p.m.	44.2	41.1	40.1	42.5	48.4	54.4	59.4	62.1	61.8	58.6	54.2	48.5

NORMANDIN CDA

PERIOD JANUARY 1960 - DECEMBER 1964

<u>DEPTH</u>		<u>Jan.</u>	<u>Feb.</u>	<u>Mar.</u>	<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>
1 cm.	a.m.	29.9	30.0	31.1	32.1	45.8	56.7	62.1	59.5	52.6	42.2	33.9	29.5
1 cm.	p.m.	30.0	30.0	31.0	33.1	52.1	63.7	69.0	66.0	57.6	46.0	34.5	29.8
10 cm.	a.m.	31.1	30.8	31.4	32.2	41.7	54.3	60.6	59.6	54.4	45.2	36.3	31.6
10 cm.	p.m.	31.1	30.8	31.3	32.3	44.1	56.9	63.2	61.8	55.8	46.0	36.4	31.7
* 20 cm.	p.m.	32.0	31.3	32.0	32.2	40.2	54.3	59.6	60.2	57.1	46.8	37.4	33.4
50 cm.	p.m.	33.2	32.6	32.4	32.7	40.1	52.0	58.5	59.0	55.3	45.6	39.1	34.4
100 cm.	p.m.	35.9	34.8	34.3	33.9	37.5	46.7	53.1	55.7	54.4	49.5	42.9	38.0
150 cm.	p.m.	38.8	37.2	36.4	35.8	36.9	43.1	48.8	52.4	52.9	50.4	45.9	41.5

\*data missing for June, 1963 and for the period  
September, 1963 to December, 1964.

LA POCATIERE CDA

PERIOD JUNE 1962 - DECEMBER 1963

<u>DEPTH</u>		<u>Jan.</u>	<u>Feb.</u>	<u>Mar.</u>	<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>
1 cm.	a.m.	27.4	26.5	28.1	33.8	46.7	58.6	62.7	60.3	53.1	44.3	34.9	28.2
1 cm.	p.m.	27.6	26.7	29.3	38.9	55.1	68.0	70.5	67.8	59.0	48.4	35.9	28.6
10 cm.	a.m.	28.2	27.5	28.6	33.0	46.0	57.6	62.7	60.9	54.6	46.0	36.3	29.9
10 cm.	p.m.	28.3	27.5	29.0	35.7	50.8	63.8	67.5	65.1	57.7	48.1	38.9	30.0
20 cm.	p.m.	29.4	28.7	29.3	32.7	46.2	58.6	63.6	62.3	56.4	47.8	37.9	31.9
50 cm.	p.m.	31.9	31.3	30.8	31.8	42.3	53.9	59.9	60.2	56.4	49.1	40.6	35.0
100 cm.	p.m.	35.5	34.1	33.2	33.0	38.5	48.1	54.8	56.9	55.6	50.7	44.4	39.0
150 cm.	p.m.	38.4	36.7	35.5	35.0	37.5	44.4	50.6	53.8	53.8	51.1	46.7	41.9

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AVERAGE SOIL TEMPERATURE (°F)

FREDERICTON CDA

PERIOD JANUARY 1960 - DECEMBER 1964

<u>DEPTH</u>	<u>Jan.</u>	<u>Feb.</u>	<u>Mar.</u>	<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>
1 cm. a.m.	27.5	28.4	31.4	34.2	50.2	61.1	65.5	63.0	55.8	45.6	36.7	29.9
1 cm. p.m.	28.5	28.9	31.9	39.9	62.5	74.5	77.3	75.8	65.5	52.3	39.1	30.5
10 cm. a.m.	28.5	28.9	31.7	34.1	50.4	61.3	65.7	64.4	57.7	47.6	38.3	31.4
10 cm. p.m.	28.9	29.2	31.7	36.7	56.4	67.8	71.6	70.0	62.0	50.6	39.4	31.5
20 cm. p.m.	29.7	29.5	31.7	34.7	52.2	63.1	67.5	66.4	59.8	49.7	39.7	32.6
50 cm. p.m.	32.9	31.6	32.4	33.4	48.0	58.5	63.6	63.7	59.3	50.9	42.1	35.8
100 cm. p.m.	37.1	35.1	34.9	34.6	43.4	52.8	58.2	60.0	58.0	52.4	45.7	40.1
150 cm. p.m.	40.1	38.0	37.3	36.3	41.3	50.0	54.2	56.8	56.4	52.8	47.8	42.9

CHARLOTTETOWN CDA

PERIOD JANUARY 1961 - DECEMBER 1964

<u>DEPTH</u>	<u>Jan.</u>	<u>Feb.</u>	<u>Mar.</u>	<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>
10 cm. a.m.	32.4	30.4	32.0	33.0	44.8	55.4	61.8	61.6	57.6	50.6	42.2	35.4
10 cm. p.m.	32.3	30.7	32.0	33.6	48.8	58.7	64.7	64.8	59.6	51.9	42.9	35.6
20 cm. p.m.	33.2	31.4	32.1	33.1	45.6	55.8	61.7	62.2	58.4	51.6	43.4	36.4
50 cm. p.m.	35.5	33.6	33.3	33.6	42.5	51.9	57.9	59.6	57.4	52.4	45.6	39.0
100 cm. p.m.	37.9	36.2	35.3	35.0	40.2	48.8	54.3	56.8	56.3	52.9	47.5	41.8
150 cm. p.m.	39.7	37.7	36.6	35.8	39.0	45.8	51.4	54.7	54.8	52.6	48.5	43.4

ST. JOHN'S WEST CDA

PERIOD JANUARY 1962 - DECEMBER 1964

<u>DEPTH</u>	<u>Jan.</u>	<u>Feb.</u>	<u>Mar.</u>	<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>
1 cm. a.m.	31.9	31.5	30.7	34.5	42.5	49.6	57.4	57.3	53.4	46.4	40.1	33.6
1 cm. p.m.	32.2	31.7	31.1	37.2	50.9	57.1	63.8	63.5	58.4	50.3	41.4	33.9
10 cm. a.m.	32.4	32.2	31.6	34.2	41.8	49.4	56.5	57.6	54.3	48.0	41.4	35.2
10 cm. p.m.	32.4	32.3	31.6	36.1	46.3	53.7	59.8	60.8	56.7	49.6	42.2	35.2
20 cm. p.m.	33.2	32.7	32.0	35.1	43.2	50.4	56.7	58.5	55.4	49.0	42.7	36.5
50 cm. p.m.	34.8	34.1	33.1	35.1	41.2	48.5	54.1	56.7	54.9	49.8	44.5	38.7
*100 cm. p.m.	36.4	35.2	35.0	36.4	40.6	46.8	51.9	54.9	54.4	50.4	45.7	40.8
150 cm. p.m.	38.5	37.0	36.5	36.1	39.0	44.3	48.8	52.0	52.8	49.9	46.7	42.3

\* data missing for 100 cm. level for the period October, 1962 - October, 1963 inclusive.