



PRESENTED

3 MAY 1940



ANNUAL REPORT

OF THE COUNCIL

OF THE

YORKSHIRE

PHILOSOPHICAL SOCIETY

FOR THE YEAR

1939

PRESENTED TO THE ANNUAL MEETING,

11th MARCH, 1940.

PRINTED BY ORDER OF THE COUNCIL.

1940.

Issued 30th April, 1940.

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FORM
OF A
BEQUEST TO THE SOCIETY.

Every person desirous of bequeathing to the Society any sum of Money, Specimens, Books, Instruments, or other Property, is requested to make use of the following form:—

*I give and bequeath to the Trustees, for the time being, of the Society established at York, called “**The Yorkshire Philosophical Society,**” for the use of the said Society, the sum of _____ to be paid out of such part of my personal estate as I may legally charge therewith. [Or here enumerate the effects or property intended to be bequeathed.] And I direct that the receipt of the Treasurer of the said Society, for the time being, shall be an effectual discharge to my Executors for the said legacy.*

The Yorkshire Philosophical Society.

(Founded 1822.)

Patroness :

HER MAJESTY QUEEN MARY.

Trustees :

THE RT. HON. THE EARL OF FEVERSHAM.

GEORGE A. AUDEN, M.D., M.A., Ph.D., F.R.C.P.

SIR FRANCIS W. TERRY, J.P. GEOFFREY THOMPSON, M.A.

J. TRIFFITT. COL. INNES N. WARE, O.B.E.

SIR ROGER LUMLEY, B.A.

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THE RT. HON. THE EARL OF FEVERSHAM.

Vice-Presidents :

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COL. INNES N. WARE, O.B.E. E. BAKER.

ALD. W. H. BIRCH, J.P.

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COUN. H. E. HARROWELL, J.P. J. H. COLLINSON, M.A.

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J. HERVEY RUTHERFORD, LL.B.

F.R.I.B.A. G. S. HUGHES, F.R.C.S., J.P.

T. GOULTON LEONARD.

Hon. Treasurer and Hon. Secretary :

COL. INNES N. WARE, O.B.E., T.D.

Committees :

General Purposes and Finance Committee :

ALD. W. H. BIRCH.
J. L. BROCKBANK.
W. HARVEY BROOK.
JOHN A. COOPER.
T. GOULTON LEONARD.
SIDNEY MELMORE.

REV. A. RAINE.
SIR FRANCIS W. TERRY.
GEOFFREY THOMPSON.
J. TRIFFITT.
COL. INNES N. WARE.

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C. ALLEN.
E. BAKER.
J. H. COLLINSON.
G. S. HUGHES.

J. A. KNOWLES.
A. W. PING.
K. E. T. WILKINSON.
DR. COLLINGE, *Secretary*.

Museum Committee :

CHARLES ALLEN.
W. HARVEY BROOK.

SYDNEY H. SMITH.
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DR. COLLINGE, *Secretary*.

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JOHN A. COOPER.
COUN. H. E. HARROWELL.
REV. A. RAINE.
J. H. RUTHERFORD.
SYDNEY H. SMITH.

SIR FRANCIS W. TERRY.
GEOFFREY THOMPSON.
J. TRIFFITT.
KENNETH WARD.
COL. INNES N. WARE.
DR. COLLINGE, *Secretary*.

Building Committee :

ALD. W. H. BIRCH.
J. H. RUTHERFORD.
J. TRIFFITT.

KENNETH WARD.
K. E. T. WILKINSON.
DR. COLLINGE, *Secretary*.

The President, the Hon. Secretary and Hon. Treasurer, and the Keeper are *ex-officio* members of all Committees.

York and District Field Naturalists' Section.

President :

C. F. SWEETMAN.

Vice Presidents :

S. MELMORE.

E. W. TAYLOR.

W. G. BRAMLEY.

V. G. F. ZIMMERMANN.

Hon. Treasurer :

G. MACHIN,
42, Vyner Street, York.

Hon. Secretary :

A. W. PING, M.A., F.R.Met.S.
St. Olave's, Clifton, York.

The Annual Subscription to the Section is five shillings. Membership is open to both members and non-members of the Yorkshire Philosophical Society. Members of the Yorkshire Philosophical Society are cordially invited to the lectures.

REPORT OF THE COUNCIL
OF THE
YORKSHIRE PHILOSOPHICAL SOCIETY.

11th MARCH, 1940.

DURING the crisis of the past year, so far as possible, the general activities of the Society have been continued.

The Council decided in September last that for the present no Lectures or Meetings of the Society should be held, but the situation will be reviewed at an early date in the light of experience.

The restoration of the Nave and Tower of St. Mary's Abbey have been completed, and for the time being any further work has ceased.

The following Lectures were delivered in the Tempest Anderson Hall during 1939 :—

January 26th.—Children's Lecture—"Rachel (aged 2 and a bit) discovers England." Charles J. Chislett.

February 9th.—"Through Holland with the Old Masters." Mrs. M. McLaughlan, F.R.G.S.

February 23rd.—"Science and the Quest for Power." Frederick Addey, B.Sc., F.R.A.S.

March 9th.—"Around North America and Tahiti." Selwyn Driver.

FINANCE.—The Society, in common with kindred institutions, is feeling the effects of the prevailing war conditions. The year opened with a debit balance of £10 4s. 3d. For the year there was an excess of expenditure over income of £88 18s. 3d., and after paying £58 5s. 7d. to the Fabric Fund, and various other items including Additions to the Museum, Library, etc., there was a debit balance of £308 8s. 0d. on December 31st. In view of this, your Council appointed a Sub-Committee to deal with the Society's financial position, whose recommendations received the approval of the Council. These consisted of a reduction of the staff, curtailment of expenditure in the gardens, general economy in office and printing expenses, and the temporary closing of the Hospitium

with the proviso that the same should be opened on request being made. It is hoped that the Society's accounts will balance at the year end.

The Million Shilling Fund stands at £56 11s. 2d., and the Reed Bequest shows a credit balance of £53 17s. 10d.

“The H. J. Wilkinson Memorial Fund” shows a credit balance of £16 15s. 7d.

The Council deeply regret to have to record the passing of the following members :—

MR. H. M. PLATNAUER, on October 1st, at the age of 82 years. He was Keeper of the Yorkshire Museum from 1883 to 1904, and served as a Vice-President of the Society since 1905. He was elected an Honorary Member of the Society in 1935. He was first and foremost a mineralogist, and as such was appointed to the staff of the British Museum (Natural History), before coming to York. He was a prime mover, on behalf of the Yorkshire Philosophical Society, in the steps which led to the calling of a meeting of Museum Curators and others interested, at York on 3rd May, 1888, and ultimately to the establishment of the Museums Association in 1889.

MR. E. R. DODSWORTH, on July 12th, at the age of 81 years. He joined the Society in 1882, and served as a member of the Council from 1897 to 1899. He was elected a Trustee in 1934.

MR. CECIL H. COBB, on November 21st, at the age of 71 years. He joined the Society in 1904, and served as a member of the Council for various periods from 1912 to 1924. He was Vice-President of the Photographic Section in 1912-13, and in 1914 he succeeded the late Dr. Tempest Anderson as President of that Section, which office he held until 1918. He was a valued member of many Committees.

MR. OXLEY GRABHAM, on December 6th, at the age of 75 years. Mr. Grabham was appointed Keeper of the Yorkshire Museum in 1905, and resigned in 1919. He was elected an Honorary Member in 1920. He was a well-known naturalist, and his special knowledge of Zoology, Ornithology and Photography proved of great value to the Society, whose collections are much richer through his generous gifts.

FIELD NATURALISTS' SECTION.—The Field Naturalists' Section fulfilled a very successful programme, and the outlook was exceedingly promising for continued work until the outbreak of War in September caused the holding of regular meetings to be in abeyance.

Two afternoon meetings were held in the late Autumn, but it was found that afternoons were not convenient for the majority of members. It is intended to carry on the activities of the Society as far as possible in the New Year.

We regret to record the death of a former President and member of many years' standing, Mr. V. G. F. Zimmermann, who was very well known for his expert knowledge and interest in Bird Life. His observations on the nesting habits of the blackbird revealed his acute personal research in matters of Ornithology.

We have also to regret the loss by death of Mr. L. Bell, and Mr. T. Hobbs.

A few new members have joined the Section in the course of the year, but it is a matter of urgency for the continuance of full activity in the Section that new and interested active members should be enrolled.

Membership at the close of the year stands at 78 Ordinary Members, 7 Honorary Members, 8 Student Members and 6 Corresponding Members.

Twenty-one Lectures and Meetings were held during the year.

NEW MEMBERS, ELECTED IN 1939.

Barton, Mrs. J. R., 24, Haxby Road.
 Colley, Joseph, 7, Longfield Terrace, Bootham.
 Davison, R. B., 42, Marygate.
 Davison, Mrs. Laura, Old Toll House, Lendal Bridge.
 Leafe, Mrs. T. M., 66, Monkgate.
 Macleod, Neil, M.D., D.P.M., 121, Clifton.
 Milner, Miss D. J., M.A., M.R.S.T., Queen Anne School, Bootham.
 Powell, Mrs. E. A., "White Gables," Shipton Road, York.
 Todhunter, Miss, 3, Earlsborough Terrace.
 Wood, Mrs. Annie, 10, Sycamore Terrace.

DEATHS.

HONORARY MEMBERS.

Grabham, Oxley, M.A., "Heron Cottage," Thornton-le-Dale, Yorks.
 Platnauer, H. M., B.Sc., Cromwell Road, London, S.W.7.

MEMBERS.

Barron, A. H., 1, Minster Gates.
 Cobb, C. H., M.A., 48, Queen Anne's Road.
 Dodsworth, E. R., "Redholme," 10, St. Peter's Grove.
 Dove, W., "Pinehurst," The Mount.
 Fleet, E. F., "The Sycamores," Bootham Terrace.
 Gray, Mrs. Edwin, J.P., Gray's Court.
 Greenwood, J., 75, Micklegate.
 Nicholson, Miss M. E., Lendal Bridge.
 Rowley, Councillor N. B., 32, Portland Street.
 Thomson, Sir Wilfrid F. H., J.P., Escrick Park Flats, Escrick.
 Brown, Mrs. L. J., 75, Bootham.

ASSOCIATE.

Sinfield, J. R., 14, Spurriergate.

RESIGNATIONS.

Members	...	...	...	...	...	14
Lady Subscribers	...	...	...	...	...	2
						<hr/> 16

DEATH AND RESIGNATION.

Members	...	...	...	...	...	24
Lady Subscribers	...	...	...	...	...	3
Associate	...	...	...	...	...	1
						<hr/> 28

NEW MEMBERS.

10

TOTAL MEMBERSHIP ON 31st DECEMBER,
1939.

Honorary Members	...	...	...	...	28
Members	...	...	...	...	274
Lady Subscribers	...	...	...	...	22
Associates	...	...	...	...	3
					<hr/>
					327
					<hr/>

Dr.

INCOME AND EXPENDITURE ACCOUNT

31st Dec., 1938

EXPENDITURE.

Wm. REE

£	s.	d.
10	16	11
12	16	11

To New Books and Binding...	...	...	...	...	...	...	...	...	...
To Balance, being Excess of Income over Expenditure, carried to Balance Sheet	...	...	...	...	...	...	...	...	...

£	s.
20	8
4	4

£23	13	10
-----	----	----

£24	12
-----	----

H. J. WILKINSON

£	s.	d.
6	11	11

To Balance, being Income, carried to Balance Sheet
--	-----	-----	-----	-----	-----	-----	-----	-----	-----

£	s.
6	18

£6	11	11
----	----	----

£6	18
----	----

MILLICENT

£1	1	0
----	---	---

To Balance, being Income, carried to Balance Sheet
--	-----	-----	-----	-----	-----	-----	-----	-----	-----

£1	14
----	----

ST. MARY'S ABBEY

£	s.	d.
622	18	11
37	18	0

To Repairs to Abbey	...	...	...	...	...	...	...	...	...
To Bank Interest and Commission	...	...	...	...	...	...	...	...	...

£	s.
435	18
56	6

£660	16	11
------	----	----

£492	4
------	---

SPECIFIC PURPOSES.

For the Year Ended 31st December, 1939.

Cr.

31 Dec., 1938.

INCOME.

BEQUEST. .

s.	d.		£	s.	d.
2	0	By Interest on £579 12s. 5d. 4% Consolidated Stock less Tax	16	16	2
15	10	By Income Tax recovered (1938-39)	6	7	6
16	0	By Bank Interest	1	9	0
<hr/>			<hr/>		
£	13	10	£	24	12 8
<hr/>			<hr/>		

MEMORIAL FUND

s.	d.		£	s.	d.
17	1	By Interest on £164 8s. 6d. 4% Consolidated Stock less Tax...	4	15	6
12	10	By Income Tax recovered (1938-39)	1	16	0
2	0	By Bank Interest	7	0	
<hr/>			<hr/>		
11	11		£	6	18 6
<hr/>			<hr/>		

SHELLING FUND

1	0	By Bank Interest	£	1	14 0
<hr/>			<hr/>		

RESTORATION FUND.

s.	d.		£	s.	d.
12	2	By Subscriptions	1	7	10
6	2 6	By General Account— $\frac{1}{7}$ th of Income Tax recovered 1938-39	58	5	7
59	2 3	By Balance, being Excess of Expenditure over Income, carried to Balance Sheet	432	11	5
<hr/>			<hr/>		
£	66	16 11	£	492	4 10
<hr/>			<hr/>		

THE YORKSHIRE PHILOSOPHICAL SOCIETY

LIABILITIES.

31st Dec., 1938.

£ s. d.

Capital Account.

£ s. d.

44910	5	3	Balance as per last Balance Sheet	...	...	...	44910		5
11	10	0	Subscriptions paid in advance	...	...	...			9 0
46	1	6	Sundry Creditors	...	...	...			68 17
Midland Bank, Ltd.									
			Overdraft on Current Account	...	...	...			283 1

 £44967 16 9

Carried forward

 £45271 4 3

BALANCE SHEET, AT 31st DECEMBER, 1939.

ASSETS.

31 Dec., 1938.

£ s. d.

£ s. d.

£ s. d.

Freehold Property and Land.

Museum Gardens.

32 and 34, Bootham (Tempest Anderson Bequest).

St. Mary's Lodge.

Baths Cottage, Marygate.

10 Bootham.

}	Not valued
	for the
	purposes
	of this
	Balance Sheet.

Investments (at cost).

TEMPEST ANDERSON BEQUEST.

£4,314 13s. 2d. 3½% War Stock 4163 3 9

£2,000 4½% Conversion Stock, 1940-44 2000 0 0

£8,000 Dominion of Canada 4% Reg. Stock, 1940-1960 7904 7 0

£8,000 New Zealand Govt. 4% Inscribed Stock, 1943-63 7968 14 6

£5,777 2s. 6d. South Indian Railway Co. Ltd., 4%

Regd. Deb. Stock, 1945 5400 0 0

£5,700 L. & N.E. Railway 4% 1st Prefce. Stock ... } 8131 9 0

£2,500 L. & N.E. Railway 4% 2nd Guar. Stock ... }

£3,219 3s. 5d. Bank of England Stock 7967 11 0

RAWDON BEQUEST.

£918 8s. 9d. India 3% Inscribed Stock, 1948 ... 1000 0 0

ST. QUINTIN BEQUEST.

£247 11s. 2d. 3½% Conversion Stock 250 0 0

185 5 3

44785	5	3
-------	---	---

Note—Market value at 31st December, 1939, £40,975 15 5

27 13 0

Sundry Debtors

52 11 0

Cash at Bank.

80 0 0 Midland Bank, Ltd., Deposit Account ... 80 0 0

45 0 0 Midland Bank, Ltd., Deposit Account (Tempest Anderson Bequest) 45 0 0

19 14 3 Midland Bank, Ltd., Current Account - - -

44 14 3

125	0	0
-----	---	---

Income and Expenditure Account.

61 6 2(Cr.) Balance at 1st January, 1939 10 4 3

Add :—Excess of Expenditure over Income for the year ended 31st December,

71 10 5 1939 298 3 9

10 4 3

308	8	0
-----	---	---

£4 67 16 9

Carried forward

£45271	4	3
--------	---	---

THE YORKSHIRE PHILOSOPHICAL SOCIETY

31st Dec., 1938.

LIABILITIES.

£	s.	d.		£	s.	d.
449	67	16	9	45271	4	4
			Brought forward			

FUNDS FOR SPECIFIC PURPOSES.

WM. REED BEQUEST.

686	16	5	Balance at 1st January, 1939	699	13	4
			<i>Add</i> :—Excess of Income over Expenditure for the year ended 31st December, 1939	4	4	6
699	13	4	12 16 11	703	17	1

H. J. WILKINSON MEMORIAL FUND.

188	5	2	Balance at 1st January, 1939	194	17	1
			<i>Add</i> :—Income for the year ended 31st December, 1939	6	18	6
194	17	1	6 11 11	201	15	7

MILLION SHILLING FUND.

53	16	2	Balance at 1st January, 1939	54	17	2
			<i>Add</i> :—Income for the year ended 31st December, 1939	1	14	0
54	17	2	1 1 0	56	11	2

FABRIC FUND.

18	7		Balance as per last Balance Sheet	18	7	
----	---	--	--	----	---	--

ST. MARY'S ABBEY RESTORATION FUND.

1099	13	9	Midland Bank, Ltd. (Overdraft)	1532	5	
------	----	---	---------------------------------------	------	---	--

£47017 16 8£47766 12

REPORT OF THE AUDITORS TO THE MEMBERS C

We have examined the foregoing Balance Sheet and Income and Expenditure Accounts and have verified the Cash Balances and Investments.

8, Coppergate, York.

8th March, 1940.

BALANCE SHEET, AT 31st DECEMBER, 1939—continued.

31 Dec., 1938.

ASSETS.

£	s.	d.						£	s.	d.
967	16	9	Brought forward ...	...	...	...	...	45271	4	3

FUNDS FOR SPECIFIC PURPOSES.

WM. REED BEQUEST.

650	0	0	£579 12s. 5d. 4% Consolidated Stock (at cost)	650	0	0	
Note:—Market Value at 31st December, 1939, £597 0s. 2d.							
49	13	4	Cash at Midland Bank, Ltd. ...	53	17	10	
399	13	4					703 17 10

H. J. WILKINSON MEMORIAL FUND.

185	0	0	£164 8s. 6d. 4% Consolidated Stock (at cost)	185	0	0	
Note:—Market Value at 31st December, 1939, £169 7s. 2d.							
9	17	1	Cash at Midland Bank, Ltd. ...	16	15	7	
94	17	1					201 15 7

MILLION SHILLING FUND.

54	17	2	Cash at Midland Bank, Ltd. ...				56 11 2
----	----	---	--------------------------------	--	--	--	---------

FABRIC FUND.

18	7		Cash at Midland Bank, Ltd. ...				18 7
----	---	--	--------------------------------	--	--	--	------

ST. MARY'S ABBEY RESTORATION FUND (Deficit)

508	11	6	Balance at 1st January, 1939 ...	1099	13	9	
<i>Add</i> :—Excess of Expenditure over Income for							
the year ended 31st December, 1939 ...				432	11	5	
99	13	9					1532 5 2

£4	17	16	8
----	----	----	---

£47766	12	7
--------	----	---

THE YORKSHIRE PHILOSOPHICAL SOCIETY.

The Books and Vouchers of the Society, and certify the same to be in accordance therewith. We

PULLEYN, CREER & CO.,
Chartered Accountants.

The Yorkshire Museum,
YORK.

Report
of the
Museum Committee
FOR THE YEAR 1939.

PRINTED BY ORDER OF THE COUNCIL.
1940.

THE YORKSHIRE MUSEUM.

REPORT FOR THE YEAR 1939.

A year of progressive work has taxed the efforts and abilities of the staff. Various changes have had to be carried out in the British Bird Room and the Vertebrate Gallery. Certain specimens have been removed from the different galleries for the duration of the war.

The Yorkshire Numismatic Society held its Summer Meeting in the Museum on June 24th.

The Yorkshire Architectural and York Archaeological Society continues to hold its meetings and house its Library in the Museum.

EDUCATIONAL WORK.—During the year, 581 children from Schools in the City attended the Museum for study and instruction. Loans of specimens have been made to various Schools.

Many archaeologists, geologists, naturalists and others have made use of the Museum and Library.

GEOLOGY.—All the Collections have been carefully examined, and are in good order. An important addition of Yorkshire fossils has been made by the gift of the four cabinets containing the Hon. Sir William Herbert Herries Collection. It has not been possible to examine these in detail as yet.

ZOOLOGY.—The whole of the Zoological collections have been examined and are in good order. Great appreciation is expressed for the magnificent gift of African and other sporting trophies made by Major P. M. Stewart of Burnby Hall, Pocklington. Amongst them is a remarkably fine case

containing a lioness stalking a klipspringer antelope, the work of Rowland Ward.

NUMISMATICS.—War conditions have prevented completion of the re-classification, labelling, and sorting-out of duplicates in the Roman collection, and the arrangement of the Yorkshire Bank Notes, both of which would probably have been finished in the Autumn of 1939.

From recent house-demolitions in York the Society has gratefully received a number of coins and medals: a few of these were purchased, but most were kindly presented.

The English coins include:—Ethelred II York Penny (not published in British Museum Catalogue); Henry III Long Cross Penny, York, type 3; Edward I Penny (group iv); Edward IV Quarter Ryal (York).

At Thorpe Willoughby, near Selby, on 12th May, 1939, an earthenware jar (glazed, of Civil War period), containing 1 gold and about 2,550 silver coins dating from Edward IV to Charles I, was turned up and broken by the plough about a foot deep in a field near Thorpe Hall. The Society has acquired 33 coins in all, namely, the gold coin (a Laurel, 1624, of James I), 3 half-crowns, 11 shillings, 10 sixpences, 1 groat, of Elizabeth, James I and Charles I, (the latest date being 1641), and 1 Scottish half-crown, and 3 Scottish shillings of James I and Charles I, all of which are in good condition, also 3 in poor condition, useful as a record only, of Edward VI and Philip and Mary.

Amongst other donations are some Medals and Yorkshire Bank Notes, and a most generous gift of 16 volumes of the British Numismatic Journal, from an anonymous source.

The Society always welcomes news of Yorkshire coin-finds and an opportunity to examine the coins at the Yorkshire Museum for comparison with the Society's collection. Donations of Yorkshire coins, medals and tokens which are not already in the collection are most gratefully received, but present conditions make it difficult for the Society to continue to buy such local coins.

CERAMICS.—The Ceramic Collections have been kept in good order during the past year, although some of the cases require a little cleaning.

LIBRARY.—There has been an expenditure of £44 0s. 5d. on the Library during the year. This includes £5 11s. 5d. on the purchase of new books ; £31 8s. 6d. on periodicals, and £7 0s. 6d. on binding. In addition to this, £20 8s. 2d. has been expended on books which have been purchased out of the Reed Bequest.

During the year 39 volumes have been added by purchase, and 50 by presentation, in addition to the usual unbound memoirs.

The number of volumes borrowed was 124.

It is urgently requested that any discovery of Archaeological interest in the neighbourhood may be brought to the notice of the Keeper of the Museum, or the Honorary Curators, as early as possible.

The Keeper of the Museum will be pleased to give any information in his power, and may be seen daily, Museum engagements permitting.

CLIMATOLOGICAL SUMMARY—THE YORKSHIRE MUSEUM, YORK, 1939.

Height above Ground :—Thermometers 4 ft. Rain-gauge 1 ft.

1939.	Air Temperature in Degrees Fahrenheit.										Earth Temperature		Rainfall.				Weather.						Bright Sunshine.								
	Means of		Means of		Means of		Means of		Means of		At 1 ft.		At 4 ft.		Total.		Maximum Fall.		Day.		Number of Days of						Total.	Daily Mean.	Per-cent-age.		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	° F.	° F.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	Pre- cipi- tation or more	Pre- cipi- tation or more	Pre- cipi- tation or more	Snow	Snow Lying	Hail	Thunder- storm.	hr.	hr.	%	
	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.
	Day.	Day.	Day.	Day.	Day.	Day.	Day.	Day.	Day.	Day.	Day.	Day.	Day.	Day.	Day.	Day.	Day.	Day.	Day.	Day.	Day.	Day.	Day.	Day.	Day.	Day.	Day.	Day.	Day.	Day.	Day.
Jan.	43.3	35.7	55	8	24	32	49	6	8	38.6	42.7	3.46	87.9	0.62	15.8	11	22	14	5	11	0	0	0	0	0	0	0	39.8	1.28	16	
Feb.	47.1	36.6	56	10, 11	23	31	50	3	11	39.9	42.4	1.65	41.9	0.60	15.2	27	14	10	0	0	0	0	0	0	0	0	64.9	2.32	24		
March	48.3	37.2	58	3	30	41	45	1	4	41.5	42.9	1.79	45.5	0.29	7.4	4, 11, 16	18	9	0	0	0	0	2	0	0	0	86.2	2.78	24		
April	55.2	40.4	74	12	31	44	51	5	13	46.3	45.1	1.28	32.5	0.39	9.9	4	12	8	0	0	0	0	1	0	1	140.1	4.67	33			
May	61.0	44.4	75	23	35	47	54	2	27	51.7	48.6	1.37	34.8	0.35	8.9	7	10	8	0	0	0	0	0	0	1	176.6	5.70	36			
June	65.8	48.9	85	6	38	53	58	13	7, 29	58.3	53.9	1.67	42.4	0.36	9.1	15, 19	15	9	0	0	0	0	0	0	0	204.0	6.80	40			
July	67.7	53.0	78	4	45	61	61	1, 2	5, 28	59.9	56.0	4.20	106.7	0.83	21.1	29	20	17	0	0	0	0	0	0	7	133.7	4.31	26			
August	68.8	54.5	77	17	48	61	60	3	21	61.6	58.2	2.09	53.1	0.48	12.2	25	13	9	0	0	0	0	0	0	1	131.9	4.25	29			
Sept.	64.1	51.4	80	8	39	55	64	28, 30	2	59.7	58.9	1.30	33.0	0.84	21.3	2	11	6	0	0	0	0	0	0	1	94.0	3.13	25			
October	53.4	40.2	58	1, 5, 6, 10, 21, 29	31	42	49	26	5, 6, 14	50.4	54.4	2.24	56.9	0.88	22.4	9	19	11	1	0	0	0	1	0	0	0	91.2	2.94	28		
Nov.	51.1	41.0	58	29	31	42	48	21	14	46.2	49.8	2.80	71.1	0.67	17.0	18	21	11	0	0	0	0	0	0	0	34.3	1.14	13			
Dec.	42.5	34.6	57	1	26	33	46	28	2	41.3	46.3	1.58	40.1	0.38	9.7	8	10	6	1	0	0	0	0	0	0	32.3	1.04	14			
Totals	668.3	517.9	—	—	—	—	—	—	—	595.4	599.2	25.43	645.9	—	—	—	185	118	7	11	4	11	—	—	—	1129.0	40.36	—			
Means	55.7	43.2	—	—	—	—	—	—	—	49.6	49.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.37	3.36	28			

CLIMATOLOGICAL SUMMARY—THE YORKSHIRE MUSEUM, YORK, 1939.

Latitude 53° 57' N. Longitude 1° 5' W. Height above Mean Sea Level 56 ft.

1939.	Mean Pressure corrected to 32° F. and lat. 45° and reduced to Mean Sea Level.				Air Temperature		Humidity.				Mean Amount of Cloud, 0-10		Cloud Amount, 9 a.m.				Wind, No. of Observations, 9 a.m.																						
	9 a.m.		9 p.m.		9 a.m.		9 p.m.		9 a.m.		9 p.m.		9 a.m.		9 p.m.		(Beaufort Scale).				Direction.																		
	mb.		in.		° F.		° F.		mb.		mb.		%		%		0		1-3		4-5		6-7		8-9		10-11		12-13		14-15		16-17		18-19		20-21		
	9 a.m.		9 p.m.		9 a.m.		9 p.m.		9 a.m.		9 p.m.		9 a.m.		9 p.m.		9 a.m.		9 p.m.		9 a.m.		9 p.m.		9 a.m.		9 p.m.		9 a.m.		9 p.m.		9 a.m.		9 p.m.				
Jan.	1002.6	1002.9	30.20	29.62	38.1	39.1	1.5	1.5	6.7	7.0	81	86	6.9	7.3	3	6	1	8	13	0	31	0	0	7	2	1	0	9	2	5	5	5	5	5	5	5			
Feb.	1015.2	1014.6	29.98	29.96	40.4	41.5	1.7	1.7	6.9	7.6	81	85	6.5	3.9	5	4	2	5	12	0	26	0	0	0	0	1	1	14	5	6	1	1	6	1	1	1			
Mar.	1016.0	1016.4	30.00	30.01	42.6	41.3	2.7	1.9	7.1	7.3	76	83	7.1	5.8	3	3	5	6	14	0	27	0	11	0	1	0	4	0	4	0	11	4	4	4	4	4	4		
April	1013.7	1013.8	29.93	29.94	48.2	46.1	3.5	2.4	8.5	8.6	74	80	5.8	4.6	7	1	5	10	7	0	28	0	11	1	3	0	4	4	3	4	4	4	4	4	4	4	4		
May	1019.9	1019.9	30.12	30.12	53.1	51.1	4.3	3.5	9.8	9.7	71	76	6.5	5.5	7	1	2	10	11	0	30	1	14	2	2	1	2	4	2	4	1	4	1	4	1	1	1		
June	1017.4	1016.7	30.04	30.02	58.4	56.3	5.9	4.8	10.9	10.8	65	70	6.3	4.9	6	4	2	7	11	0	30	0	10	1	0	2	8	2	2	3	4	4	4	4	4	4	4	4	
July	1009.4	1009.8	29.81	29.82	61.3	59.6	4.1	2.8	14.1	14.5	76	83	7.0	5.8	1	6	3	12	9	0	31	0	4	0	1	0	1	10	8	3	4	3	4	3	4	3	4	3	
Aug.	1017.2	1016.9	30.04	30.03	61.0	60.5	2.7	2.0	15.4	15.9	84	88	6.7	4.8	3	6	4	6	12	0	29	2	11	1	0	0	0	3	5	6	3	4	3	4	3	4	3	4	
Sept.	1021.8	—	30.17	—	58.1	—	3.0	—	13.5	—	82	—	6.7	—	4	4	2	9	11	0	30	0	13	2	0	2	0	5	2	4	4	4	4	4	4	4	4	4	
Oct.	1013.7	—	29.93	—	46.9	—	2.0	—	9.2	—	84	—	6.2	—	5	5	3	7	11	0	30	0	15	1	6	2	2	0	0	0	5	2	0	0	5	2	0	5	2
Nov.	1008.7	—	29.79	—	45.2	—	1.3	—	9.1	—	88	—	7.2	—	3	5	0	7	15	0	26	2	0	1	1	2	14	3	5	2	2	2	2	2	2	2	2	2	
Dec.	1016.9	—	30.03	—	37.8	—	1.5	—	6.6	—	85	—	7.4	—	1	8	0	6	16	0	29	0	11	0	0	2	4	2	9	3	2	3	3	3	3	3	3	3	
Totals	12172.5	—	—	—	591.1	—	34.5	—	117.8	—	947	—	80.3	—	48	53	29	93	142	0	347	5	107	11	15	12	81	34	60	40	40	40	40	40	40	40	40	40	
Means	1014.4	—	29.96	—	49.3	—	2.9	—	9.8	—	79	—	6.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Pressure is expressed in millibars (1,000 millibars = 29.531 mercury inches), also in mercury inches.

RAINFALL IN 1939
AT CHERRY HILL, YORK.

Rain Gauge: Dia. of Funnel, 5 in.;
Height above Ground, 1 ft. 6 in.

" " Sea level, about 50 ft.

Month.	Bright Sunshine.		Pressure at Mean Sea Level.							
	Daily Mean. 1939.	Per-centage.	Absolute Extremes.							
			1938.	1939.	Highest.	Lowest.	Date.	Time.		
Jan.	hr. 1.28	% 16	% 19	% 16	mb. 1024.0	mb. 978.2	31st	16th	9 a.m.	9 a.m.
Feb.	2.32	24	23	24	1032.7	976.4	14th	23rd	9 a.m.	9 a.m.
Mar.	2.78	24	34	24	1038.5	994.6	12th	22nd	9 p.m.	9 p.m.
Apr.	4.67	33	33	33	1037.2	986.5	19th	4th	9 a.m.	9 a.m.
May	5.70	37	36	36	1034.0	998.6	29th	5th	9 a.m.	9 p.m.
June	6.80	40	36	40	1031.8	1004.4	1st	28th	9 p.m.	9 p.m.
July	4.31	26	29	26	1022.6	998.8	10th	16th	9 p.m.	9 p.m.
Aug.	4.25	36	36	29	1028.4	1005.6	15th	7th	9 a.m.	9 p.m.
Sept.	3.13	31	31	25	1032.3	1005.5	19th	3rd	9 a.m.	9 a.m.
Oct.	2.94	28	28	28	1028.5	994.7	22nd	14th	9 a.m.	9 a.m.
Nov.	1.14	22	22	13	1035.5	985.9	21st	26th	9 a.m.	9 a.m.
Dec.	1.04	13	13	14	1030.9	986.9	17th	5th	9 a.m.	9 a.m.
Total. Year. Mean.	40.36 3.36	28	30	28	1038.5	976.4	March 12th	February 23rd	9 p.m.	9 a.m.

* Observations taken at 9 a.m. only.

Month.	Total Rain-fall for month.	Days with .01 in. or more.	Days with .04 in. or more.	Date of Highest Rainfall	Am't. in ins.
Jan.	3.86	20	15	1	.60
Feb.	1.14	14	6	27	.35
Mar.	1.24	18	13	17	.19
April	0.75	12	5	4	.24
May	0.90	7	7	15	.23
June	1.04	14	10	17/19	.47
July	2.46	20	19	8/9	.40
Aug.	1.13	11	7	25	.26
Sept.	1.29	11	6	2	.84
Oct.	1.79	16	10	9	.88
Nov.	1.83	22	16	17/19	.45
Dec.	1.09	8	8	11	.23
Total	18.53	173	122		

RIVER HEIGHT RECORDS REGISTERED BY THE AUTOMATIC RECORDER
AT THE GUILDHALL, YORK, 1929.

Date	JANUARY.		FEBRUARY.		MARCH.		APRIL.		MAY.		JUNE.	
	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.
1	4 p.m.	above 1 7	1 a.m.	above 2 8	1 a.m.	above 8 4	1 a.m.	above 3 1	8 p.m.	above 0 7	noon	above 0 1
2	12 p.m.	4 9	"	2 5	12 p.m.	6 3	4 p.m.	2 8	"	0 7	"	S.L.
3	7 a.m.	5 6	"	2 2	1 a.m.	6 4	1 a.m.	2 6	10 p.m.	0 7	"	S.L.
4	1 a.m.	3 8	1 p.m.	2 0	"	4 4	12 p.m.	2 1	11 p.m.	0 7	4 p.m.	above 0 3
5	"	1 8	12 p.m.	3 5	12 p.m.	4 6	noon	4 1	12 p.m.	0 7	9 a.m.	0 1
6	"	1 3	1 p.m.	4 2	9 a.m.	5 0	1 a.m.	3 4	noon	0 4	noon	S.L.
7	12 p.m.	1 3	1 a.m.	3 8	1 a.m.	3 10	"	2 0	4 p.m.	0 7	12 p.m.	above 0 1
8	"	10 1	noon	5 9	12 p.m.	3 3	6 a.m.	1 9	7 a.m.	0 7	"	0 1
9	"	12 9	12 p.m.	5 3	9 a.m.	6 0	5 p.m.	1 5	8 p.m.	0 6	8 p.m.	0 1
10	8 a.m.	13 0	10 p.m.	5 6	1 a.m.	4 2	12 p.m.	1 3	3 p.m.	0 6	"	0 2
11	1 a.m.	12 3	6 a.m.	5 5	"	2 6	6 a.m.	1 4	1 a.m.	0 5	4 p.m.	0 4
12	"	9 8	1 a.m.	4 4	12 p.m.	2 10	1 a.m.	1 0	noon	0 3	noon	S.L.
13	"	8 4	8 a.m.	4 10	2 a.m.	2 10	noon	0 10	"	0 3	8 p.m.	above 0 2
14	"	5 7	1 a.m.	3 7	1 a.m.	1 10	"	0 10	4 p.m.	0 7	12 p.m.	0 2
15	12 p.m.	9 4	1 a.m.	2 4	3 p.m.	1 8	"	0 11	noon	0 6	"	0 3
16	"	12 4	11 p.m.	2 1	4 p.m.	1 7	12 p.m.	1 10	"	0 7	"	1 8
17	1 a.m.	12 4	noon	2 0	1 p.m.	1 10	6 a.m.	2 0	12 p.m.	1 0	8 a.m.	2 0
18	"	11 3	6 p.m.	2 11	1 a.m.	1 9	12 p.m.	1 1	4 p.m.	1 1	5 p.m.	0 9
19	6 a.m.	11 0	1 a.m.	2 8	3 p.m.	1 6	noon	1 1	1 a.m.	1 0	1 a.m.	0 7
20	1 a.m.	10 5	1 p.m.	2 4	6 p.m.	1 6	1 p.m.	0 11	noon	0 7	7 p.m.	0 6
21	"	8 6	10 a.m.	1 10	noon	1 4	3 p.m.	0 9	4 p.m.	0 8	12 p.m.	0 5
22	"	6 6	12 p.m.	2 0	1 p.m.	1 4	noon	0 8	1 a.m.	0 7	9 p.m.	0 6
23	11 p.m.	5 8	"	4 1	noon	1 9	4 p.m.	0 10	noon	0 3	noon	0 2
24	1 a.m.	5 7	11 a.m.	4 7	4 p.m.	1 6	1 a.m.	0 9	"	0 3	"	0 3
25	"	4 1	1 a.m.	3 11	5 a.m.	1 5	12 p.m.	0 9	"	0 2	5 p.m.	0 6
26	12 p.m.	3 8	5 p.m.	3 11	2 p.m.	1 4	6 a.m.	0 10	"	0 2	1 p.m.	0 3
27	11 p.m.	4 0	noon	3 2	12 p.m.	1 1	"	0 8	"	0 2	12 p.m.	0 2
28	1 a.m.	3 11	12 p.m.	3 8	"	1 1	3 p.m.	0 7	3 p.m.	0 5	"	0 3
29	"	3 2	"	8 3	"	2 0	6 p.m.	0 7	noon	0 1	noon	0 1
30	12 p.m.	2 9	1 a.m.	4 4	1 a.m.	4 2	3 p.m.	0 7	6 a.m.	0 4	12 p.m.	0 6
31	noon	2 7	7 p.m.	3 3	7 p.m.	4 2	3 p.m.	0 7	noon	0 1	noon	0 0

RIVER HEIGHT RECORDS.—Continued.

Date	JULY.		AUGUST.		SEPTEMBER.		OCTOBER.		NOVEMBER.		DECEMBER.	
	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.
1	9 p.m.	above 1 2	8 a.m.	above 3 4	6 p.m.	above 0 4	3 p.m.	above 0 3	1 a.m.	above 2 0	12 p.m.	above 8 5
2	2 p.m.	0 9	1 a.m.	2 4	12 p.m.	0 9	1 p.m.	0 2	1 p.m.	1 5	2 p.m.	9 6
3	12 p.m.	0 8	12 p.m.	2 3	"	1 8	2 p.m.	0 1	"	1 3	1 a.m.	9 0
4	2 p.m.	0 8	2 p.m.	3 4	noon	2 11	3 p.m.	0 2	12 p.m.	1 4	12 p.m.	4 10
5	noon	0 3	1 a.m.	3 1	1 a.m.	1 8	6 p.m.	0 2	6 p.m.	2 0	3 a.m.	4 10
6	7 p.m.	1 6	12 p.m.	1 8	"	0 10	12 p.m.	0 3	12 p.m.	6 1	2 p.m.	5 1
7	12 p.m.	4 0	2 a.m.	1 9	"	0 7	2 p.m.	0 9	1 a.m.	6 2	1 a.m.	4 9
8	3 a.m.	4 1	1 a.m.	1 6	3 p.m.	0 4	4 p.m.	0 7	"	3 5	12 p.m.	4 3
9	1 a.m.	2 0	noon	0 8	noon	0 3	12 p.m.	0 4	12 p.m.	3 2	1 p.m.	7 3
10	"	1 2	"	0 7	3 p.m.	0 6	"	2 11	6 a.m.	3 5	12 p.m.	6 10
11	noon	0 11	"	1 1	8 p.m.	1 3	1 a.m.	2 11	1 a.m.	2 8	1 a.m.	6 9
12	1 a.m.	0 8	"	1 8	1 a.m.	1 0	12 p.m.	1 5	noon	1 9	"	3 10
13	"	0 6	2 p.m.	1 4	"	0 6	6 a.m.	1 6	1 a.m.	1 6	"	3 8
14	noon	0 3	1 a.m.	0 11	4 p.m.	0 4	12 p.m.	2 5	noon	1 4	12 p.m.	2 2
15	6 p.m.	0 6	"	0 8	noon	0 3	2 p.m.	3 2	12 p.m.	4 2	1 a.m.	2 2
16	"	0 8	noon	0 5	"	0 3	1 a.m.	2 6	1 a.m.	4 2	"	1 10
17	12 p.m.	0 10	10 a.m.	0 4	4 p.m.	0 6	"	1 5	"	2 9	3 p.m.	1 7
18	5 a.m.	0 11	noon	0 3	8 a.m.	0 3	"	0 11	"	2 0	1 a.m.	1 5
19	1 a.m.	0 9	"	0 3	noon	S.L.	6 p.m.	0 8	12 p.m.	5 11	6 p.m.	1 3
20	12 p.m.	0 10	5 p.m.	0 6	"	S.L.	noon	0 6	2 a.m.	6 1	12 p.m.	1 1
21	5 p.m.	1 9	1 p.m.	0 5	"	above 0 1	"	0 5	1 a.m.	3 1	noon	1 1
22	1 a.m.	1 5	3 p.m.	0 7	"	0 1	4 p.m.	0 8	"	2 1	"	1 1
23	1 p.m.	0 8	2 p.m.	0 6	"	0 1	9 a.m.	0 7	12 p.m.	2 10	"	1 0
24	6 p.m.	0 6	3 p.m.	0 5	3 p.m.	0 5	5 p.m.	0 6	6 a.m.	2 11	"	1 0
25	2 p.m.	0 6	6 p.m.	0 4	noon	0 2	10 a.m.	0 4	1 a.m.	2 2	6 p.m.	1 0
26	6 p.m.	0 6	4 p.m.	0 5	1 a.m.	0 2	noon	0 4	12 p.m.	8 0	noon	0 10
27	8 p.m.	0 3	5 p.m.	0 9	noon	0 2	12 p.m.	0 10	2 a.m.	8 1	8 a.m.	1 0
28	12 p.m.	0 3	noon	0 9	2 p.m.	above 0 2	"	1 8	1 a.m.	4 3	noon	0 10
29	"	0 9	"	0 8	noon	0 1	1 p.m.	1 9	12 p.m.	4 2	"	0 9
30	"	2 7	2 p.m.	0 7	1 p.m.	0 1	12 p.m.	3 0	7 p.m.	4 2	"	0 8
31	9 a.m.	3 4	3 p.m.	0 6	3 p.m.	0 1	6 a.m.	6 3	6 a.m.	6 2	8 p.m.	0 8



PRESENTED

3 MAY 1940



