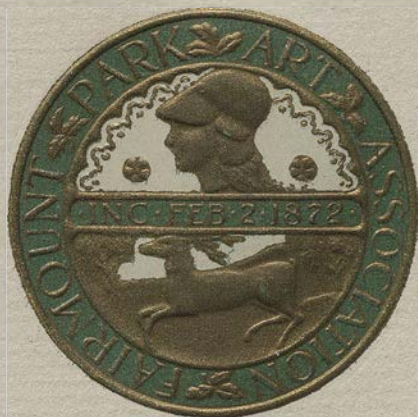


Fairmount Park Art Association

"TO PROMOTE AND FOSTER THE BEAUTIFUL IN
THE CITY OF PHILADELPHIA, IN ITS ARCHITEC-
TURE, IMPROVEMENTS AND GENERAL PLAN"

Eighty-eighth Annual Report



Ormiston Mansion, Fairmount Park
Philadelphia

1960

PROCEEDINGS
OF THE
EIGHTY-EIGHTH ANNUAL MEETING
OF THE
FAIRMOUNT PARK
ART ASSOCIATION

ANNUAL REPORT
BOARD OF TRUSTEES

“CORRECT USE AND ABUSE OF
PHILADELPHIA’S RIVERS”

BY

DR. RUTH PATRICK

CURATOR OF LIMNOLOGY

THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA

Ormiston Mansion, Fairmount Park
Philadelphia 21

1960

OFFICERS 1960

President

PHILIP PRICE

Vice-Presidents

R. STURGIS INGERSOLL

HENRI MARCEAU

Treasurer

ORVILLE H. BULLITT

Counsel

R. STURGIS INGERSOLL

TRUSTEES

TERM EXPIRES IN 1961

JOSEPH T. FRASER, JR.

WILLIAM G. FOULKE

G. HOLMES PERKINS

MARKLEY STEVENSON

SAMUEL PRICE WETHERILL

RICHARD N. WILLIAMS, II

TERM EXPIRES IN 1962

R. STURGIS INGERSOLL

PHILIP PRICE

SYDNEY E. MARTIN

JOHN F. LEWIS, JR.

C. CLARK ZANTZINGER, JR.

HENRI MARCEAU

TERM EXPIRES IN 1963

GORDON A. HARDWICK

MICHAEL VON MOSCHZISKER

HORACE H. F. JAYNE

ORVILLE H. BULLITT

HENRY W. SAWYER, 3D

H. RADCLYFFE ROBERTS

Executive Secretary

W. H. NOBLE, JR.

Ormiston Mansion,

East Fairmount Park, Philadelphia 21

STANDING COMMITTEES

(The President is *ex officio* a member of all Committees)

On Finances, Legacies and Trusts

ORVILLE H. BULLITT, *Chairman*

GORDON A. HARDWICK

WILLIAM G. FOULKE

SPECIAL COMMITTEES

On Samuel Foundation

R. STURGIS INGERSOLL, *Chairman*

HENRI MARCEAU, *Co-Chairman*

JOSEPH T. FRASER, JR.

SYDNEY E. MARTIN

On New Projects

JOHN F. LEWIS, JR., *Chairman*

ORVILLE H. BULLITT

MARKLEY STEVENSON

WILLIAM G. FOULKE

C. CLARK ZANTZINGER, JR.

MICHAEL VON MOSCHZISKER

On Plan of City

MARKLEY STEVENSON, *Chairman*

GORDON A. HARDWICK

SAMUEL PRICE WETHERILL

JOHN F. LEWIS, JR.

RICHARD N. WILLIAMS, II

C. CLARK ZANTZINGER, JR.

G. HOLMES PERKINS

On Relocation of Sculpture

HORACE H. F. JAYNE, *Chairman*

JOSEPH T. FRASER, JR.

H. RADCLYFFE ROBERTS

HENRI MARCEAU

HENRY W. SAWYER, 3D

LIST OF EXECUTIVE OFFICERS FROM THE ORGANIZATION OF THE ASSOCIATION

PRESIDENTS

Anthony J. Drexel.....	1871-1893
John H. Converse.....	1894-1900; 1904-1909
Charles H. Howell.....	1900-1902
James M. Beck.....	1903-1904
Edward T. Stotesbury.....	1909-1916
Charles J. Cohen.....	1916-1927
Emory McMichael.....	1927-1930
Roland L. Taylor.....	1930-1943
Sydney E. Martin.....	1943-1954
Philip Price.....	1954-

HONORARY VICE-PRESIDENT

J. Rodman Paul.....	1940-1941
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VICE-PRESIDENTS

H. Corbit Ogden.....	1871-1876
Charles H. Rogers.....	1876-1886
Joel J. Bailey.....	1886-1903
Alexander Brown.....	1887-1893
George B. Roberts.....	1887-1898
Charles C. Harrison.....	1894-1907
Frank Thomson.....	1898-1899
William W. Justice.....	1899-1900
Ferdinand J. Dreer.....	1900-1902
Charles E. Dana.....	1900-1914
Edgar V. Seeler.....	1904-1909
John T. Morris.....	1909-1915
John H. Converse.....	1909-1910
Charles J. Cohen.....	1912-1916
E. Burgess Warren.....	1916-1917
James M. Beck.....	1916-1936
Henry K. Fox.....	1916-1925
J. Rodman Paul.....	1924-1939
Eli Kirk Price.....	1925-1933
Sydney E. Martin.....	1936-1943
R. Sturgis Ingersoll.....	1943-
Henri Marceau.....	1944-

FAIRMOUNT PARK ART ASSOCIATION

TREASURERS

James L. Claghorn.....	1871-1885
Thomas Hockley.....	1885-1892
Henry K. Fox.....	1892-1899
James W. Paul, Jr.....	1899-1908
William W. Justice.....	1909-1914
John W. Pepper.....	1915-1918
W. Hinckle Smith.....	1919-1940
Orville H. Bullitt.....	1940-

SECRETARIES

John Bellangee Cox.....	1871-1875; 1877-1887
John B. Robinson.....	1875-1877
Charles H. Howell.....	1887-1900
Leslie W. Miller.....	1900-1920
Roland L. Taylor.....	1920-1930
Henri Marceau.....	1943-1946

EXECUTIVE SECRETARIES

Andrew Wright Crawford.....	1922-1930
Henri Marceau.....	1930-1939
W. H. Noble, Jr.....	1939-1942
Mrs. C. W. Letsch, Jr.....	1942-1946
W. H. Noble, Jr.....	1946-



The Newly Gilded Joan of Arc returning to her pedestal.



EIGHTY-EIGHTH ANNUAL REPORT OF THE BOARD OF TRUSTEES

To the Members and Guests of the Fairmount Park Art Association

LADIES AND GENTLEMEN:

I am sure that our members present will not object if I remind them and guests that one of the major purposes of this Association, as stated in its Charter, is "To promote and foster the beautiful in the City of Philadelphia, in its architecture, improvements and general plan." For some of you it is the first time you have attended one of these meetings, but we hope it is not the last. Each year I report to this meeting to bring the members up to date on what the Association has done during the year and something of its plans for the future. This year my report will be supplemented by having a brief film of a few of the organization's activities and hope you will enjoy seeing them as well as hearing about them because, during this particular year, many of the accomplishments were especially photogenic.

The members of the Board of Trustees, as indicated in the published report, all serve on various standing committees dealing with some endeavors which extend over a period of years, such as the Samuel Memorial Committee. In other cases the members of the Committee will investigate and study some new condition within the park or the city such as the moving of a statue to a new site due to a change in traffic patterns. The Committee on Relocation of Sculpture will handle such a problem. There is a standing committee on New Projects and another on Plan of City and of course a very important one on Finances, Legacies and Trusts with its chairman, your treasurer, Mr. Orville H. Bullitt.

The Trustees are constantly on the alert to observe trends and plans in the development of the City, to criticize, to correct if necessary and possible, and in every way bringing to bear their influence and that of the Art Association to make Philadelphia more beauti-

Left: The Joan of Arc about to be placed on the pedestal. East River Drive.

ful. The members of the Board have been chosen because of their dedicated interest in civic affairs.

The Samuel Memorial is nearing completion and probably within the coming year you will be invited to its dedication. One statue remains to be put in place and this is at the present time being cast in bronze. During the past year the three terraces have been carefully planted under the guidance of one of your Board members, Mr. Markley Stevenson, the distinguished landscape architect. This spring the bulbs will flower for the first time and many of the shrubs will burst with their first blooms. We hope you will take the time to stop, park your car under the Girard Avenue bridge, and walk along the river's bank and enjoy the splendid planting of these terraces, read the inscriptions of famous Americans and admire the statues they illustrate. This year has seen the addition of two pylons at the entrance of the Third Terrace, the one nearest the bridge, which are inscribed with a brief description of the Samuel Memorial and are decorated by two panels in low relief by the Philadelphia sculptor, J. Wallace Kelly.

The Committee on Relocation of Sculpture arranged for the gilding of Fremiet's equestrienne statue of Joan of Arc which you will see in the film in full color, in a few minutes. This Committee joined with the Committee on New Projects in acquiring and arranging the location of a bronze statue of Walt Whitman by the late Jo Davidson. The site is on one of the approaches to the Walt Whitman bridge on south Broad Street, which you shall also shortly see in our film.

The bronze by Paul Manship, entitled the Duck Girl, which was purchased by this Association a number of years ago, has been temporarily placed in the pool at Rittenhouse Square, where it is hoped a permanent location will be found.

The drawing of the Colonial Houses in Fairmount Park by Rosalynd Sturges, about which you were told last year, and which the Association had reproduced in color, has been most successful in its reception and many copies are now framed and hang on Philadelphia walls as well as in the homes of Philadelphians who have strayed to other localities. They may be purchased at the Philadelphia Museum of Art's sales desk, and for the convenience of those who haven't seen this rendering, a framed copy is now at the rear of the ballroom where orders will be received.

Over the years the Fairmount Park Art Association has presented the Zoological Society with a number of pieces of animal sculpture in stone and bronze which, it is felt, add a great deal to the pleasure of those who visit the Zoological Gardens. At the

present time the Zoo is arranging a new entrance and approach to their grounds which would be immeasurably enhanced by some dominating animal group. With this in mind, your Board has agreed to present such a piece of sculpture to the Zoo. During the past year the Committee on New Projects, whose chairman is Mr. John Frederick Lewis, has conducted a competition among a group of animal sculptors. From the models submitted, an outstanding group by the well known sculptor, Heinz Warneke, of an Elephant and Calf was selected and Mr. Warneke is now at work on this commission. A second model of two Giraffes, by the Philadelphia sculptor, Henry Mitchell, so highly recommended itself that it was also commissioned to be cast with the purpose of placing it ultimately in the new giraffe house which is in time to be built by the Zoological Society.

You were told here at the Annual Meeting last year that the ladies of the Rittenhouse Square Improvement Association, who had watched over the Square with such taste and diligence for so long, had decided to become part of this Association and their funds and duties have now been transferred and are under your care. Now for the first time in over fifty years the Fairmount Park Art Association has a Women's Committee, which will not only oversee the activities of Rittenhouse Square but will assume the responsibility of guiding your Board in activities of this Association where the advice of the distaff side is preeminently proper and suitable. To be Chairman of this new committee of ladies, your trustees feel that they are most fortunate in securing the services of Mrs. Clarence Warden, Jr. You will see her shortly in our film, presiding over the Association's booth at the Rittenhouse Square Flower Market last spring. The following ladies have agreed to serve with her and we hope most of them are here today. Mrs. Warden plans to call her Committee together within the near future to outline the Committee's participation in the Flower Market and other activities. It gives me great pleasure to present the names of the ladies on this Committee:

MRS. GEORGE F. B. APPEL
 MRS. KING BAIRD
 MRS. FREDERIC L. BALLARD
 MRS. DONALD B. BARROWS
 MRS. ALFRED BENDINER
 MRS. ORVILLE H. BULLITT
 MRS. JAMES CHESTON
 MRS. JAY COOKE
 MRS. ANTELO DEVEREUX
 MRS. RICHARDSON DILWORTH
 MRS. RAYMOND ENTENMANN

MRS. FERDINAND FETTER
 MRS. JOSEPH T. FRASER, JR.
 MRS. THOMAS S. GATES
 MRS. ROBERT MCKAY GREEN
 MRS. ORVILLE HORWITZ
 MRS. CHARLES E. INGERSOLL
 MRS. HORACE H. F. JAYNE
 MRS. ALLSTON JENKINS
 MRS. SIDNEY KEITH
 MISS KATHARINE SNOWDEN KING
 MRS. ROY LARSON

FAIRMOUNT PARK ART ASSOCIATION

MISS MILDRED LEE
MRS. EDWARD C. LUKENS
MRS. LOUIS C. MADEIRA, 4TH
MRS. JOHN W. MOFFLY
MRS. JAMES ALAN MONTGOMERY
MRS. WILLIAM H. NOBLE, JR.
MRS. CHARLES O'CONNOR
MRS. HARALD PAUMGARTEN
MRS. GEORGE W. PEPPER, 3RD
MRS. JOHN S. PRICE, 3RD
MRS. ROBERT W. PREUCEL
MRS. CHARLES L. RITCHIE
MRS. E. FLORENS RIVINUS

MRS. GEORGE BROOKE ROBERTS
MRS. ADOLPH G. ROSENGARTEN
MRS. JAMES M. SKINNER, JR.
MRS. LAWRENCE M. C. SMITH
MRS. STUART S. TAYLOR
MRS. CHARLES I. THOMPSON, JR.
MRS. CLARENCE A. WARDEN, JR.
MRS. GEORGE F. TYLER
MRS. HENRY M. WATTS, JR.
MRS. ELKINS WETHERILL
MRS. WILLIAM WHITE
MRS. ELIAS WOLF
MRS. RICHARD D. WOOD, 2ND

In the course of this meeting you will be called upon to select six members of the Board of Trustees to serve for a period of three years and until their successors are chosen. The Trustees whose terms expire at this time are:

GORDON A. HARDWICK
MICHAEL VON MOSCHZISKER
HORACE H. F. JAYNE

ORVILLE H. BULLITT
HENRY W. SAWYER, 3RD
H. RADCLYFFE ROBERTS

On behalf of the Board,

PHILIP PRICE
President

MINUTES OF THE EIGHTY-EIGHTH ANNUAL MEETING

The Eighty-Eighth Annual Meeting of the Fairmount Park Art Association was held at the Bellevue-Stratford Hotel on Thursday, January 28, 1960 at 12 o'clock noon.

There were around four hundred members and their guests present. Mr. Philip Price presided and proceeded immediately to the business of the meeting.

The reading of the minutes of the last meeting held January 22, 1959, was, on motion, dispensed with as they were printed in the Eighty-Seventh Annual Report, copies of which were on hand.

The Annual Report of the Board of Trustees was made by the President, Philip Price. It was moved that this report be accepted and referred to the incoming Board for publication and the Secretary be instructed to order the usual number of reports printed and distributed to the members of the Association.

The reading of the Treasurer's Report was, on motion, dispensed with as it has been duly audited and will be published in the Eighty-Eighth Annual Report.

The meeting proceeded to the election of six Trustees to succeed those whose term had expired. The following were elected to serve for a term of three years and until their successors are chosen:

GORDON A. HARDWICK
MICHAEL VON MOSCHZISKER
HORACE H. F. JAYNE

ORVILLE H. BULLITT
HENRY W. SAWYER, 3RD
H. RADCLYFFE ROBERTS

The President then presented the speaker of the day, Dr. Ruth Patrick, Curator of Limnology at the Academy of Natural Sciences of Philadelphia, who spoke on "Correct Use and Abuse of Philadelphia's Rivers."

At the conclusion of her talk, Dr. Patrick was thanked by the President and, on motion, the meeting was adjourned.

W. H. NOBLE, JR.
Executive Secretary

TREASURER'S REPORT OF THE ASSOCIATION, OCTOBER 31, 1959

	<i>Participating Units</i> <i>Fairmount Park Art Assn.</i> <i>Cons. Investment Fund</i>		<i>U.S.</i> <i>Govt. &</i> <i>Municipal</i> <i>Bonds</i> <i>& Notes</i>	<i>Cash</i> <i>(Principal,</i> <i>Income)</i>	<i>Total</i> <i>Assets</i>	<i>Deferred</i> <i>Income</i>	<i>Fund</i> <i>Balances</i>
	<i>Units</i>	<i>Value</i>					
Hancock Memorial	876	\$ 10,945.53	\$.....	\$ 5,351.23	\$ 16,296.76	\$.....	\$ 16,296.76
Howell Fund	7,479	93,449.36	4,978.12	11,407.75	109,835.23	.....	109,835.23
Permanent Fund (City Branch)	8,638	107,930.95	.....	23.72	107,954.67	.....	107,954.67
Permanent Fund (Park Branch)	14,139	176,665.39	.....	28.98	176,694.37	.....	176,694.37
Ellen Phillips Samuel Memorial	55,910	698,589.94	149,104.69	14,575.99	862,270.62	.....	862,270.62
General Fund (City Branch) .....	.....	.....	10,855.63	4,719.52	15,575.15	*50.00	15,525.15
General Fund (Park Branch) .....	.....	.....	5,021.37	11,756.66	16,778.03	*45.00	16,733.03
Conor-Wood Memorial .....	.....	.....	.....	1,134.72	1,134.72	.....	1,134.72
John Harrison .....	.....	.....	.....	706.24	706.24	.....	706.24
Washington Square Improvement Fund .....	.....	.....	.....	246.73	246.73	.....	246.73
Rittenhouse Square Improvement Association .....	.....	.....	9,228.13	5,639.76	14,867.89	.....	14,867.89
	87,042	†\$1,087,581.17	\$179,187.94	‡\$55,591.30	\$1,322,360.41	\$95.00	\$1,322,265.41

* Dues applicable to the year 1959-60.

† See attached Statement of Fairmount Park Art Association Consolidated Investment Fund.

‡ This amount includes \$49,276.67 of income and \$6,314.63 of principal.

NOTE 1—Investments are represented in the above statement at carrying values as indicated on statements and records of the Fidelity-Philadelphia Trust Company, which institution, during the year under review, acted as fiscal agent for the Association under authority from the Board and the Treasurer.

NOTE 2—The value of the Consolidated Investment Fund, as shown in this report, represents the carrying value as indicated by the Fidelity-Philadelphia Trust Company statements. The approximate market value of one (1) participating unit at October 31, 1959 is \$22.3332 and was determined by the relationship which exists between the total number of such units held by the participating funds (87,042 units) and the approximate market value of the fund (\$1,943,923.) at that date.

Subject to Comments in Report

TREASURER'S REPORT OF THE ASSOCIATION

October 31, 1958 - October 31, 1959

SAMUEL FUND

<i>Income</i>		<i>Expenses</i>	
Balance October 31, 1958.....	\$34,871.14	Sculpture Insurance.....	\$ 684.38
Income from Securities.....	43,479.26	Construction Work:	
Miscellaneous.....	40.98	Central Terrace.....	7,790.00
		Miscellaneous.....	160.00
		Landscaping:	
		North Terrace.....	5,770.00
		South Terrace.....	9,413.00
		Middle Terrace.....	6,095.00
		Maintenance.....	2,500.00
		Miscellaneous.....	882.00
		Erecting 4 Statues.....	1,417.24
		Work on 2 Pylons:	
		Sculptor.....	4,000.00
		Granite.....	3,650.00
		Miscellaneous.....	245.00
		Auditing.....	320.00
		Purchased Treasury Bonds.....	20,032.67
		Zoo Project:	
		Sculptor.....	1,000.00
		Miscellaneous.....	39.09
		Miscellaneous.....	20.66
		Balance October 31, 1959.....	14,372.34
	\$78,391.38		\$78,391.38

Cash balance temporarily invested:

\$25,000. U.S. Treasury 2¼s 12/15/62-59
85,000. U.S. Treasury 2½s 11/15/61
20,000. U.S. Treasury 2½s 2/15/65
20,000. U.S. Treasury 3½s 5/15/61

GENERAL FUND—PARK

<i>Income</i>		<i>Expenses</i>	
Balance October 31, 1958.....	\$11,893.13	Office Salaries.....	\$ 4,702.22
Income from Securities.....	10,557.70	Printing.....	850.05
Income from Dues.....	1,965.00	Telephone.....	112.91
Sale of Temporary Investments.....	9,931.56	Annual Meeting.....	1,114.78
Sale of Prints of "Park Houses"....	267.20	Auditing.....	80.00
Miscellaneous.....	197.43	Subscriptions and Dues.....	275.00
		Joan of Arc:	
		Removing, Gilding & Re-	
		storing.....	2,362.00
		Miscellaneous.....	37.50
		Zoo Sculpture Competition.....	1,883.20
		Japanese House (Official Opening)...	279.84
		Prints—"Park Houses".....	5,185.00
		Balance due on Sketches "Park	
		Houses".....	100.00
		Purchased Treasury Bonds.....	5,008.17
		Miscellaneous.....	1,064.69
		Balance October 31, 1959.....	11,756.66
	\$34,812.02		\$34,812.02

Cash balance temporarily invested:

\$5,000. U.S. Treasury 4% Notes 8/1/59-61

TREASURER'S REPORT OF THE ASSOCIATION

GENERAL FUND—CITY

<i>Income</i>		<i>Expenses</i>	
Balance October 31, 1958.....	\$ 2,775.64	Office Salaries.....	\$ 1,175.54
Income from Securities.....	6,744.03	Printing.....	180.20
Income from Dues.....	1,555.00	Annual Meeting.....	278.69
Royalty from Art Alliance.....	7.35	Auditing.....	55.00
Sale of Temporary Investments.....	12,918.11	Subscriptions and Dues.....	140.00
Miscellaneous.....	6.25	Lighting Cascades.....	6,666.00
		Walt Whitman Statue:	
		Construction Work.....	7,000.00
		Landscaping.....	2,632.50
		Miscellaneous.....	620.43
		Engraving Geo. Washington Sta-	
		tue.....	254.00
		Miscellaneous.....	284.50
		Balance October 31, 1959.....	4,719.52
	\$24,006.38		\$24,006.38

Cash balance temporarily invested:

\$6,000. U.S. Treasury 4% Notes 8/1/59-61
5,000. U.S. Treasury 3½% 5/15/61

HOWELL FUND

<i>Income</i>		<i>Expenses</i>	
Balance October 31, 1958.....	\$11,047.09	Auditing.....	\$ 45.00
Income from Securities.....	5,413.01	Purchased Treasury Bonds.....	5,008.16
		Balance October 31, 1959.....	11,406.94
	\$16,460.10		\$16,460.10

Cash balance temporarily invested:

\$5,000. U.S. Treasury 3½% 5/15/61

RITTENHOUSE SQUARE IMPROVEMENT ASSOCIATION FUND

<i>Income</i>		<i>Expenses</i>	
Balance January 7, 1959		Purchased Treasury Bonds.....	\$5,008.17
From Rittenhouse Square Im-		Miscellaneous.....	9.75
provement Association.....	\$ 9,185.56	Balance October 31, 1959.....	5,639.76
Income from Securities.....	160.12		
Share of proceeds of Flower Mar-			
ket.....	1,312.00		
	\$10,657.68		\$10,657.68

Cash balance temporarily invested:

\$5,000. Penna. Turnpike Rev. 3.10s Ser. 1954 6/1/93
5,000. U.S. Treasury 3½% 5/15/61

CONOR-WOOD MEMORIAL FUND

Balance October 31, 1958.....	\$ 1,134.72	Balance October 31, 1959.....	\$ 1,134.72
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WASHINGTON SQUARE IMPROVEMENT FUND

Balance October 31, 1958.....	\$ 246.73	Balance October 31, 1959.....	\$ 246.73
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CORRECT USE AND ABUSE OF PHILADELPHIA'S RIVERS

DR. RUTH PATRICK

CURATOR OF LIMNOLOGY

THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA

Today we will pay tribute to the three rivers which have been the lifeblood of Philadelphia since the days of William Penn—the Delaware, the Schuylkill and the Wissahickon. Philadelphia is the only city which has immortalized in a fountain the rivers which have meant so much to her progress. In a fountain in Logan Square we have the Delaware symbolized as a maiden with a shad; the Schuylkill, a maiden with a swan; and the Wissahickon, a maiden with a catfish from whence comes the name.

In the days of William Penn every house had its own well and “good” water could be had at a depth of 40 feet. It was not until after the plague of yellow fever in 1793 that the first water works was built. It was located in the area where at the present time stands our City Hall.



The water works designed by Frederick Grauff in 1812. Above the Philadelphia Museum of Art.

With the growth of the city, the Schuylkill River became more and more the center of social life. The mansions which today we know as Park Houses were erected along its banks late in the 18th century and during the early part of the 19th century. Boats plied their way up and down the river. Where today stand the Falls of Schuylkill Bridge was a famous fishing grounds. Before the dam was built large rocks were at this site. Indeed, the Indians held on to this fishing ground longer than any other one before finally handing it over to William Penn. Shad, perch, rockfish and migratory catfish could be caught in great numbers in this area. The mouth of the Wissahickon during certain seasons of the year was often black with migratory catfish going up the river to spawn. Hence the name Wissahickon may have come from the Indian name Wismickan which means catfish. This stream has locally been called Catfish Creek.

It was in 1812 that Frederick Grauff designed the water works which was located in the lovely Grecian buildings along the banks of the Schuylkill. This was indeed a Philadelphia first and something for which all Philadelphians might well be proud. The dam was built in 1819 and the reservoir stood in the site of the present Art Museum. People came from all over the world to see this magnificent achievement and Frederick Grauff would often entertain these notables in the drawing room of his house which is now occupied in part by our aquarium.

As time went on the activity on the Schuylkill increased. In the latter part of the 19th century it was indeed a favorite recreational ground for Philadelphians. It was then that Boat House Row was erected and the Sedgeley Club which many of us know so well. The Humane Society, now known as the Philadelphia Skating Club, was erected on the banks of the Schuylkill to help skaters in distress, for in those days the Schuylkill River froze over and was a skating rink frequented by many.

In the summertime boat trips up the river were a favorite pastime. One might board a boat at Market, go through the locks around the dam, and proceed upriver to the taverns along the bank near the falls of the Schuylkill. The most famous of these was Wissahickon Hall now the present Guardhouse on Wissahickon Drive. At this tavern one might have catfish, coffee, and little sweetcakes. If one so desired, one might rent a batou for an afternoon's boat ride on the Wissahickon.

The Wissahickon unlike the Schuylkill River from earliest times was an industrial river. Before 1686 Robson Mill or Wissahickon Mill which was a grist mill was erected near the mouth of

the Wissahickon. A little later, around 1690 the Rittenhouse Mill which was the first paper mill in the colonies was erected about a mile upstream. These houses are still standing. One of these is the birthplace of David Rittenhouse and the little mill house is next door. It was here that the first paper used in the colonies was made. The second paper mill was erected in 1710 by Dewees in what is commonly called today Harper's Meadow in Chestnut Hill, near Germantown Avenue. Besides these paper mills, numerous grist mills were located on the banks of the Wissahickon. In 1698 Holgate Mill which was a fulling mill was erected. One often wonders what the pollution picture might have been on the Wissahickon in those days. But it could not have been so very bad because in 1780 Benjamin Franklin willed some money to the city, and specified that in the future some of this money should be spent to bring the water of the Wissahickon as drinking water to the people of Philadelphia. At least Benjamin Franklin had a good opinion of the quality of the water. As time went on these mills along the Wissahickon disappeared. The Wissahickon River changed from an industrial river to one running through a residential area. Many people in my audience may remember skating from Valley Green up to Dewees' Mill. Others may have happy memories of skating parties on the mill pond above Dewees' Mill.

Just as the Schuylkill River was the site of many fine homes so was the upper Delaware, and at the same time country houses were being erected along the banks of the Schuylkill, many fine estates came into being along the banks of the upper Delaware. Some of these are still occupied by the Biddle family today. In those days commercial boats and some pleasure boats would ply their way up and down the river, but the Delaware River was mostly a commercial fishing river. It was particularly noted for its shad. Indeed, recently Mr. A. Mercer Biddle described to me the Delaware River at night as he remembered it in his youth. He said it reminded one of Venice with the lighted boats dotted here and there across the river. Each of these boats would be at one end of a large drift net and dotted along the nets would be other lights which would bob up and down as the nets drifted back and forth with changes in current.

As the 19th century came to an end a great industrial surge took place in this area. Towns and villages grew in immense proportions. Industry came in from every direction. All of these caused pollution. Few knew what pollution was and many did not care. Dr. Joseph Leidy, the famous naturalist, wrote toward the end of the 19th century that if this awful pollution did not stop many of the animals which he had described would disappear. However, no one heeded his plea. The Schuylkill River became a dark, murky stream. The

Delaware River became an open sewer. This is exemplified by a story told to me by Admiral Draemel. During the last World War a British ship came into the Philadelphia shipyard to be repainted. It was camouflaged and its colors were white, green and blue. This ship was repainted and its colors were all sparkling new and bright, but it was detained overnight at the Navy Yard. By morning it had turned a dark, dingy brown and before it could make its way down the Delaware River to its mouth it turned a dark chocolate brown. As a result it had to be completely refurbished before it could set to sea. This was but one sample of many instances of the effect of the waters of the Delaware upon the ships that passed through it.

Fortunately, there were some thoughtful people who realized that if we were to have a Philadelphia in the days to come with suitable water for all, this would have to stop. Engineers set to work to see how they could clean up this mess. State officials, the State Chamber of Commerce, and interstate groups such as Incodel, set to work to see if a working set of rules could be drawn up to control pollution. At the same time, the Academy of Natural Sciences set to work to study rivers, to see if by understanding the life in rivers, pollution might better be understood and a way to logical control of the pollution worked out. If we could determine the tolerances of the organisms in a river and understand the pattern of aquatic life in a normal river we might find a way to use our rivers without abusing them. Every natural river has the ability to rejuvenate or cleanse itself if it is not harmed too greatly by the effects of pollution. This rejuvenation is brought about by the aquatic life living in a river. The bacteria take the complex wastes and break them down into simple forms which can be assimilated by the algae. In this process they use up a considerable amount of oxygen which is in river water. The algae not only turn the products of bacterial activity into food for other organisms but by the process known as photosynthesis produce oxygen which is so necessary for all living things in a river. The protozoa function in that they eat the bacteria and thus keep their population operating at an optimum rate. If the bacteria became too numerous they would kill themselves by their own excretion. Thus the protozoa by keeping them in control bring about sizes of populations of bacteria which work most efficiently in destroying wastes. The snails and invertebrates feed upon the algae and the protozoa and thus keep them in control. They also prey upon feces and wastes of other organisms. The crayfish and the sponges and the bryozoan and the worms each have their part in bringing about the proper balance of populations of various types of organisms. The insects feed upon the lower invertebrates. Likewise at the same time they furnish food for fish. I might also mention that the lower invertebrates are also a source of food for fish. Thus we see we have a great variety of life existing in a normal stream.

HEALTHY

SEMI-HEALTHY

POLLUTED

VERY POLLUTED

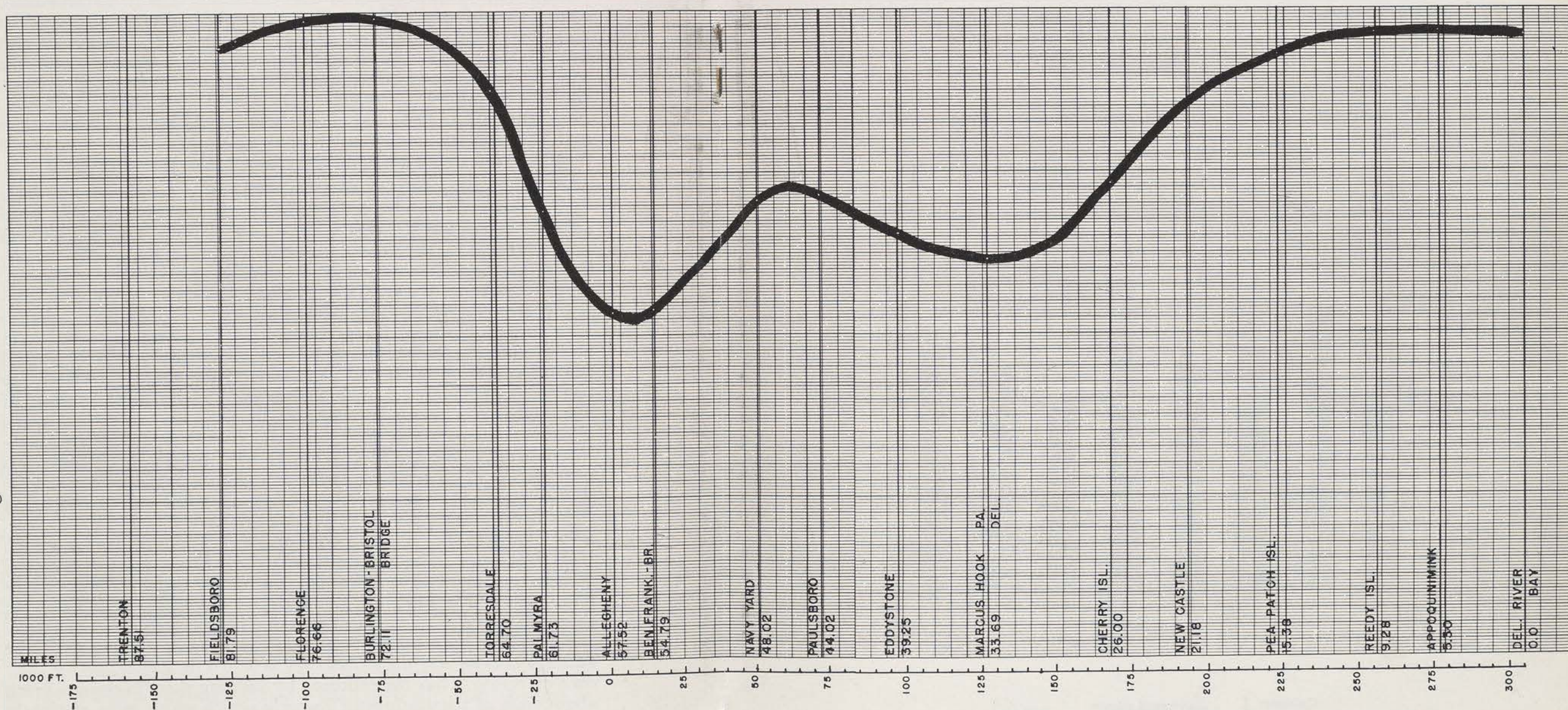


FIGURE 5 Chart I.
Generalized Picture of the Delaware River
as to its Ability to Support Aquatic Life.

Now this is not a great mass of life but rather one that is carefully balanced. I like to think of it as being a dynamic equilibrium, what the physiologists call a "steady state." Anything that happens to part of this equilibrium affects all of it because it throws it slightly

HEALTHY

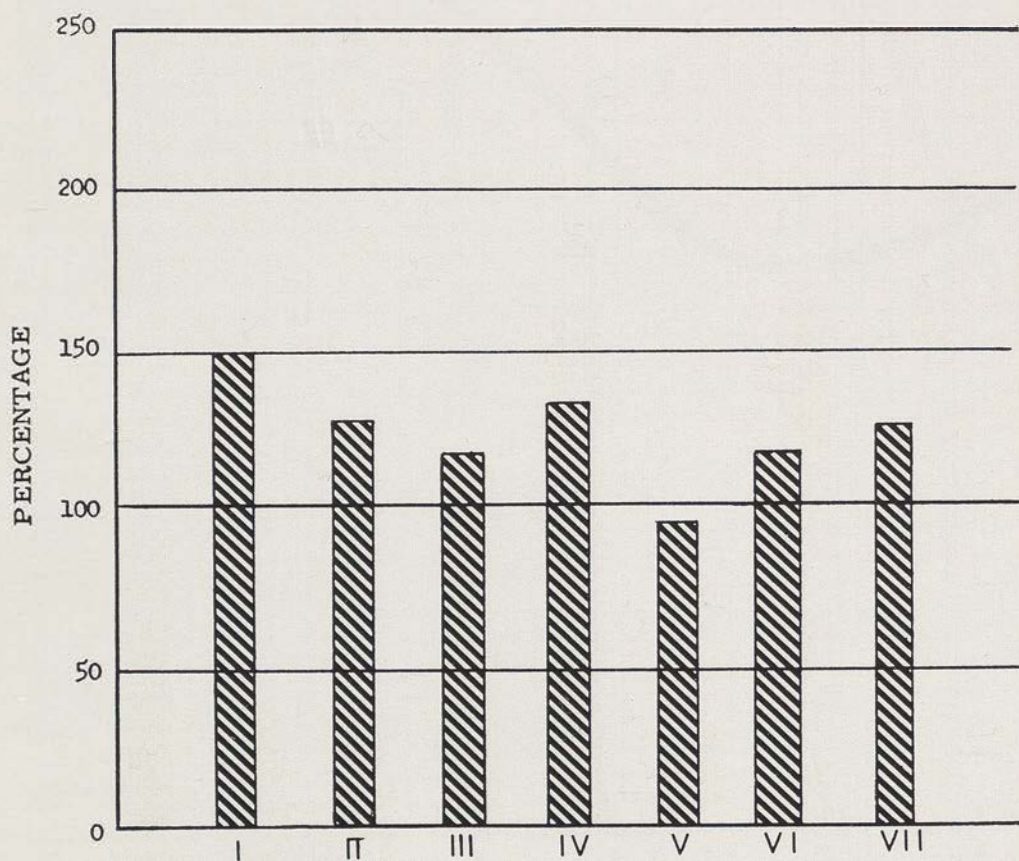


FIGURE I

Column I	Tolerant algae
Column II	Tolerant worms and snails
Column III	Protozoa
Column IV	Non-tolerant algae
Column V	Non-tolerant worms and mollusks
Column VI	Crustacea and insects
Column VII	Fish

The figures over the columns indicate the number of species found.

out of balance, the degree of distortion depending upon the amount of harm which is done to it. Therefore, by understanding this life which lives in the stream and knowing how to interpret the changes which may be seen we are able to judge how badly it has been

SEMIHEALTHY

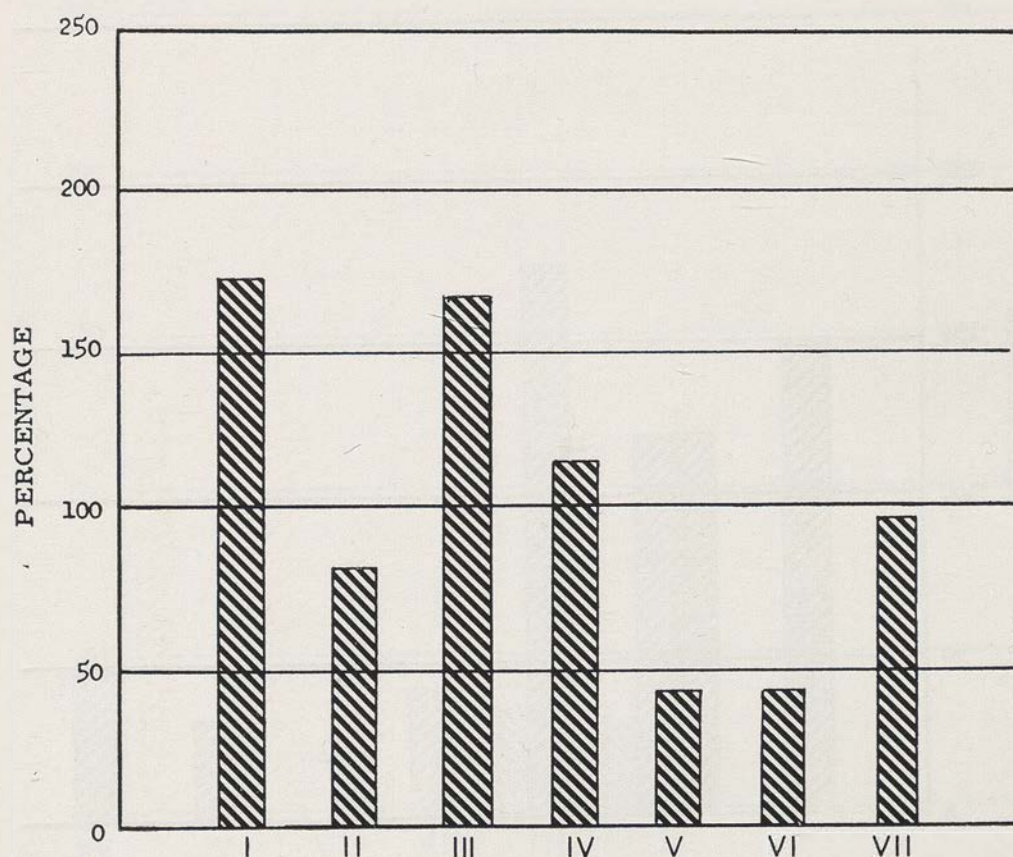


FIGURE 2

Column I	Tolerant algae
Column II	Tolerant worms and snails
Column III	Protozoa
Column IV	Non-tolerant algae
Column V	Non-tolerant worms and mollusks
Column VI	Crustacea and insects
Column VII	Fish

The figures over the columns indicate the number of species found.

damaged by pollution. Using largely the aquatic life in the stream which is so necessary for its rejuvenescence the Academy has developed a system for measuring the "health" of a river. In a "healthy" river, Fig. 1, we see that all groups of organisms are

POLLUTED

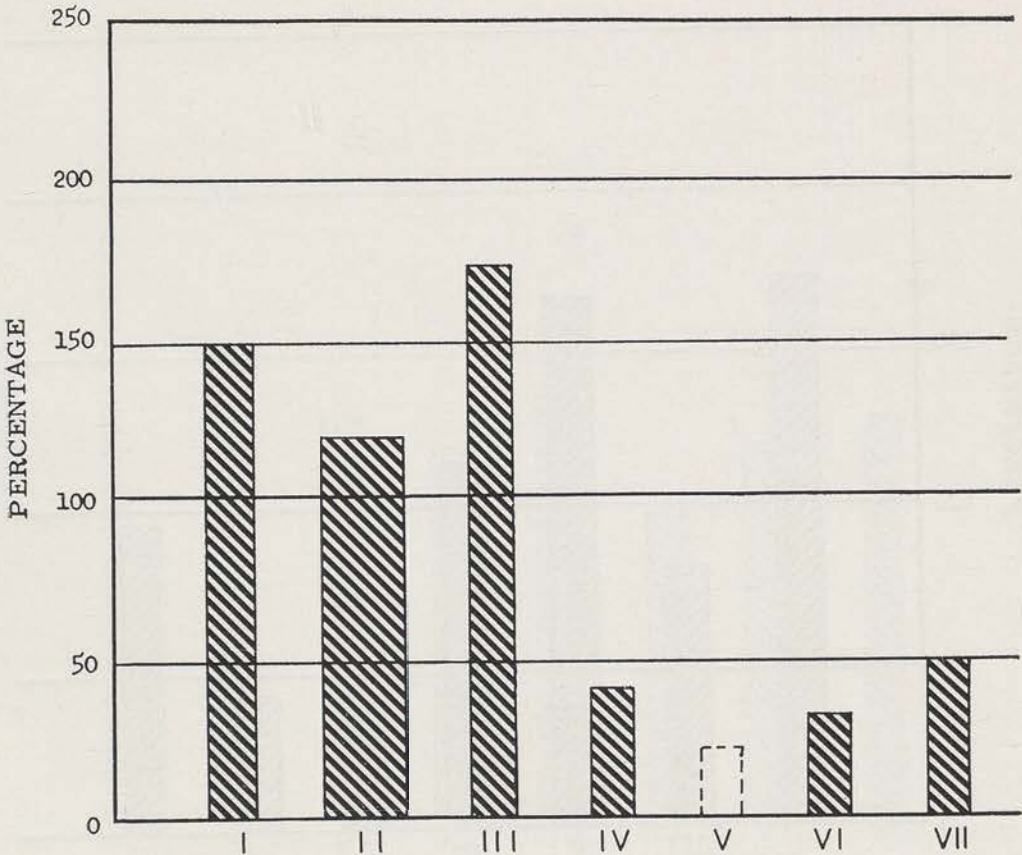


FIGURE 3

- | | |
|------------|---------------------------------|
| Column I | Tolerant algae |
| Column II | Tolerant worms and snails |
| Column III | Protozoa |
| Column IV | Non-tolerant algae |
| Column V | Non-tolerant worms and mollusks |
| Column VI | Crustacea and insects |
| Column VII | Fish |

The figures over the columns indicate the number of species found.

represented by a fairly large number of species most of which are represented by moderate sized populations. When this condition has been slightly damaged which we shall refer to as a "semi-healthy" condition this picture or pattern is not so well balanced,

VERY POLLUTED

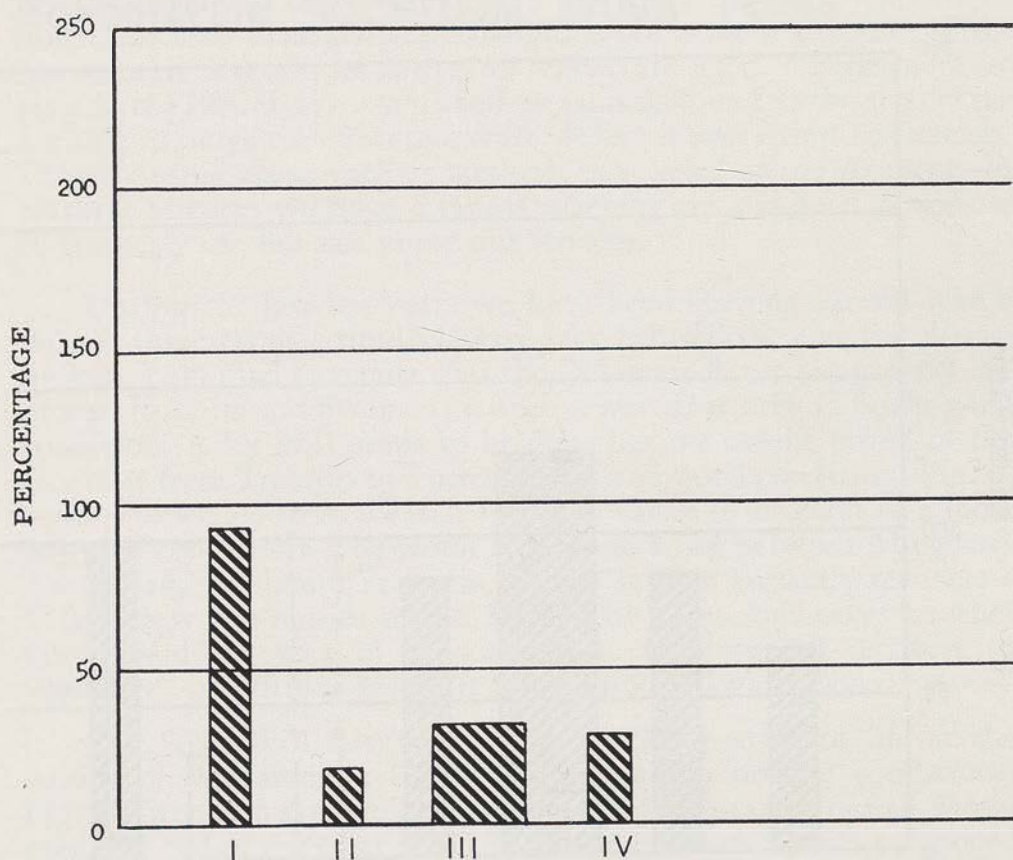


FIGURE 4

Column I	Tolerant algae
Column II	Tolerant worms and snails
Column III	Protozoa
Column IV	Non-tolerant algae
Column V	Non-tolerant worms and mollusks
Column VI	Crustacea and insects
Column VII	Fish

The figures over the columns indicate the number of species found.

Fig. 2. Some of the more tolerant species become more numerous either by more species being present or developing very large populations of certain species. The sensitive organisms become less numerous. In "polluted" conditions, Fig. 3, the more sensitive organ-

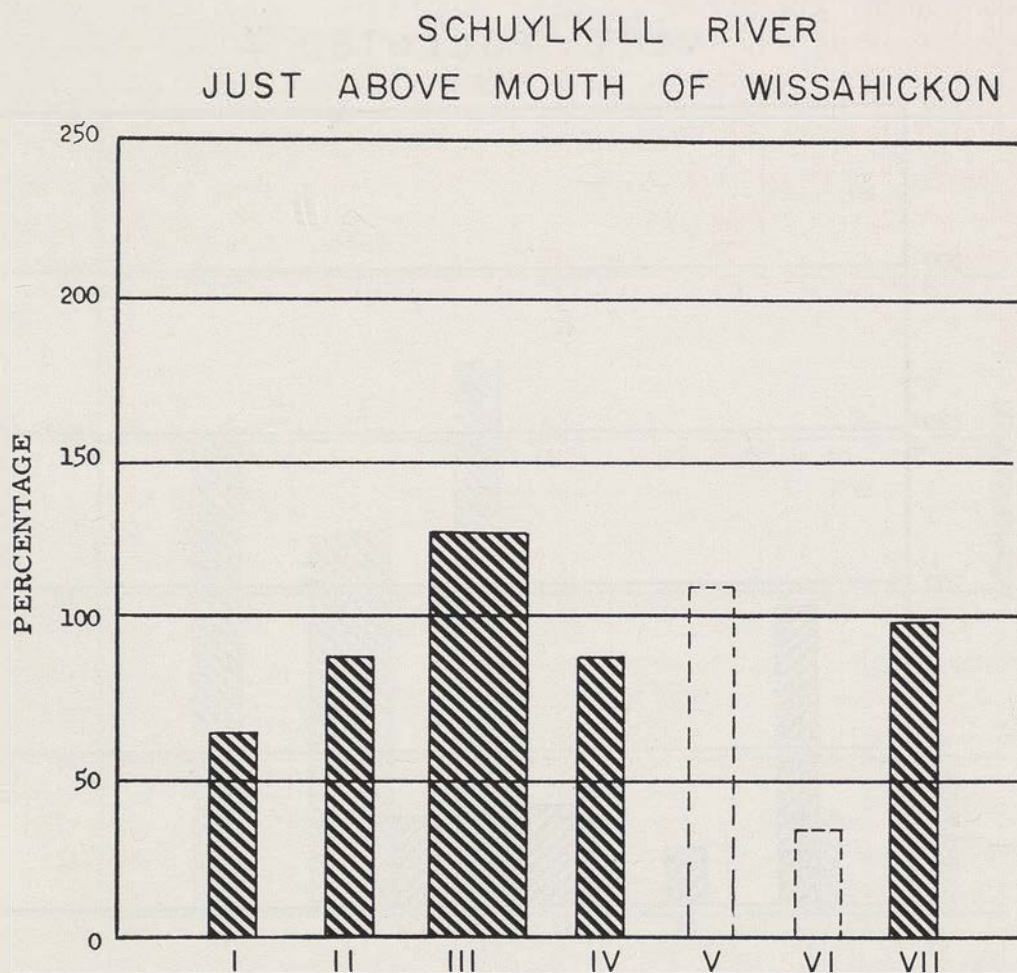


FIGURE 6

Column I	Tolerant algae
Column II	Tolerant worms and snails
Column III	Protozoa
Column IV	Non-tolerant algae
Column V	Non-tolerant worms and mollusks
Column VI	Crustacea and insects
Column VII	Fish

The figures over the columns indicate the number of species found.

isms such as the fish, the insects, some lower invertebrates, and certain algae are almost completely eliminated and a few of the very tolerant algae and lower invertebrates become extremely numerous. Under "very polluted" conditions, Fig. 4, practically everything is killed in the stream and only a very few organisms remain. Depending on the kind of pollution they may be represented by very small or very large populations. Thus you see we have a method of measuring the condition of a river. By this method we can tell whether or not it has been damaged and how much pollution it can take without severely altering its ability to regenerate itself. Furthermore by tests in the laboratory using these organisms found in the stream we are able to judge the effect of a waste before it ever enters the stream. Thus by using these various methods developed at the Academy of Natural Sciences we have a means whereby we can determine how to correctly use but not abuse our streams.

During the last ten years we have been keeping careful watch on our three rivers—the Delaware, the Schuylkill, and the Wissahickon. I am glad to report that the Delaware River has greatly improved from its condition as an open sewer. It is now in fairly good condition. A lot still needs to be done but we can be proud of the fact that from Trenton to Torresdale it is in good condition, Fig. 5. From Torresdale to Pea Patch Island it varies from good to almost polluted conditions. The worst area seems to be between Allegheny Avenue and Benjamin Franklin Bridge. It then partially recovers a little below the mouth of the Schuylkill River, but takes another dip around the area of Marcus Hook. However, it recovers to "healthy" conditions before it flows into Delaware Bay.

The Schuylkill River as shown by this pattern of life at the mouth of Wissahickon Creek is approaching normal conditions, Fig. 6. That is to say, we have a normal representation of fish. However, the bed of the river is not in good condition. This is evidenced by the fact that the insects and the lower invertebrates are represented by very small populations of those species which live in or on the bed of a river. Those species which typically live in mud are almost absent. This is because of the fact that though the river was dredged not all of the silt, coal, and culm was removed which was on the bed. This material is loose and is easily moved about. Until enough soil and organic matter has been deposited upon the bed to build up a suitable habitat, this part of the river will probably remain unnatural. We have found in many of our other studies that the bed of the river is the slowest part of a river to recover from the effects of pollution. This is what we are finding to be the case in the Schuylkill River. Thus the food chain or the food web in the Schuylkill River goes from the algae to the forage fish, which are the fish that feed on algae, to game fish and largely circumvents the

normal pathway through the lower invertebrates and the insects. Of course, there are some of these organisms present but they are not yet in great enough numbers to support the game fish population which one finds in the Schuylkill River.

The Wissahickon has still several bad spots on it. However, the Wissahickon Valley Watershed Association and the Friends of the Wissahickon are working hard to see if a solution can be found to the problems existing in this small stream. Thus we see we have come a long way from 1940. If we will apply the knowledge and skills which are now available and continue through research to study our problems as they arise in order that we can find the right solution, we can have use without abuse of our rivers—good water for tomorrow.

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C	Mackie, The Rev. Alexander	P	Newbold, Fitz Eugene
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P	Madeira, Mrs. Louis C., 4th	P	Newkirk, Mrs. Walter M.
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C	Magill, J. P.	C	Nicholson, Miss Edythe
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P	Marceau, Mrs. Henri	P C	Noble, W. H., Jr.
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P	Maxwell, Mrs. John R., Jr.	P C	O'Connor, Mrs. Charles O.
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P C	Meigs, Mrs. Robert R.	P	Oliver, Hon. L. Stauffer
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P C	Melvin, Frank W.	P C	O'Neill, W. Paul
C	Mercer, Mrs. William R.		
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P C	Mertz, Mrs. O. E.	P	Page, Mrs. George Bispham
C	Meyers, Mrs. Morton J.	P C	Paisley, Harry E.
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P	Morris, Horatio H.	P	Perot, Mrs. Heublein W.
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