

Wet
FELLOWSHIPS

Black, John

September 26, 1946

Dear Mr. Black: Your letter of September 23 addressed to the Fund has been referred to me for an answer. We were delighted to hear from you because we are concerned to keep in touch with our former Fellows. The work you are doing at Anderson College sounds as though it were serving a real need in an important center.

I have thought carefully over your questions regarding Mr. Leftridge and consulted with Dr. M. O. Bousfield, formerly associated with the Fund. I pass on to you his thoughts and recommendations. If Mr. Leftridge stands in the top third of his class, Doctor Bousfield feels that there would be purpose in having him make application to either the Northwestern University Medical School, 303 East Chicago Avenue, Chicago, Illinois, or the University of Illinois College of Medicine, 1853 West Polk Street, Chicago, Illinois. Doctor Bousfield also thinks that he should apply to Meharry Medical School, Nashville, Tennessee, and the School of Medicine at Howard University, Washington, D. C. Without meaning in any way to imply that Meharry and Howard do not have high standards, Doctor Bousfield felt that since many students coming to these two schools were prepared in southern institutions where, for various reasons, the quality of preparation is somewhat lower than in the northern institutions, Mr. Leftridge might make application to Meharry and Howard should his rating be only within the second third of his class.

With respect to any prejudice that might be engendered due to his failure to rank high in medical school, Doctor Bousfield was extremely dubious. Furthermore, he felt that Mr. Leftridge would probably not get into a medical school unless he had the ability to do the work required. Pharmacy, in Doctor Bousfield's opinion, is only a poor substitute. I think I interpret him correctly when I say that if the student has, in your opinion, good or average ability to do medical school work, you encourage

Mr. John D. Black

-2-

September 26, 1946

him to move forward with it. If, on the other hand, your better acquaintance with the case leads you to doubt the wisdom of this, then the School of Pharmacy at the University of Illinois, 808 South Wood Street, Chicago, Illinois, is recommended. (Northwestern has no school of pharmacy.)

I was particularly interested to learn from you of the "large numbers of southern students" and the "larger than usual number of Negro students" enrolled at Anderson College due to the straightforward way in which the institution treats all students as full American citizens. Last year I wrote to the president of Anderson College on two occasions as one of many other presidents with whom I had similar correspondence, suggesting that he might be interested in knowing of the qualifications of Negro men and women who might be considered as candidates for any posts he wished to fill. A year ago about this time I sent along a list of such candidates but, unless I am mistaken, I did not have word back. Your fine statement makes me bold enough to ask you whether the college would be ready to engage a Negro in the post you hope to fill in biology. I think you will find a number of biologists listed on the enclosed pages. I have marked those which seem to me to come nearest to being possible candidates for the position. There are others equally good, and should you wish to learn of them, I will be delighted to send along their names.

I trust the above information is of some use.
We were glad to hear from you.

Sincerely,

FRED G. WALE

FGW:en
Enclosure

Mr. John D. Black, Head
Department of Biology
Anderson College
Anderson, Indiana

**FISK**
UNIVERSITY

ANDERSON COLLEGE
ANDERSON v INDIANA
JOHN A. MORRISON, President
RUSSELL OLT, Dean " " "

	JW	9-5	JW	26
	WCH		WCH	.

Sept. 23, 1946

Julius Rosenwald Fund
4901 Ellis Ave.
Chicago, Ill.

FELLOWSHIPS

Gentlemen: This will serve both as a report and an inquiry. I do not believe that I have ever informed you that I returned to Anderson last fall and am serving here as head of the department of biology and acting head of the department of chemistry. We will have a man for chemistry next fall after which I will confine my activities to the department of biology. There are now two teachers in biology and a third will be added next fall if a suitable candidate can be found. I am greatly pleased with my work here since it offers such a great opportunity to serve. We draw large numbers of southern students and students from the mountain sections, and also have a larger than usual number of Negro students because our school has tried to treat Negro students as full American citizens.

My inquiry concerns one of our Negro students. He is Arthur Leftridge, a mature student, ex G.I. with four years of G.I. training due him. He is interested in medicine but I have told him that he should investigate the possibility of his being accepted in medical school carefully before going too far with his program. He is a bright student, but not quite on the level of our best pre-medical students. He would make a good Negro doctor, but I am wondering if he is quite good enough to overcome the prejudice that he likely will meet. His financial backing beyond his Bill of Rights money is limited. He is willing to consider pharmacy as an alternate.

Any information you can give me regarding the schools he should consider, the degree of prejudice he will have to combat and other pertinent information regarding both medicine and pharmacy will be appreciated. I expect similar cases in the future since we do have several Negro students and any information regarding advanced schools and vocational opportunities for these students will be most helpful.

Yours very truly

John D. Black
John D. Black

Ken 9-200

FISK
UNIVERSITY

UNIVERSITY OF ILLINOIS
DEPARTMENT OF CHEMISTRY
URBANA

FELLOWSHIPS
Black, John D.

January 25, 1943

		<i>West 16</i>	<i>West 0</i>	

Dr. F. C. McLean
Department of Physiology
University of Chicago
Chicago, Illinois

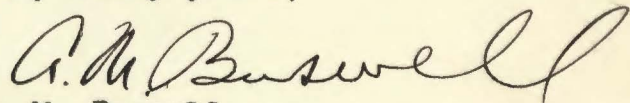
Dear Dr. McLean:

I am returning herewith the papers concerning Mr. John David Black. Dr. Prosser has looked them over and is of the opinion that he will be very useful to us, provided we can find sufficient funds.

We are writing him direct to find out what salary he would accept and when he might be available. If we are able to make definite arrangements for his employment we will notify you at once.

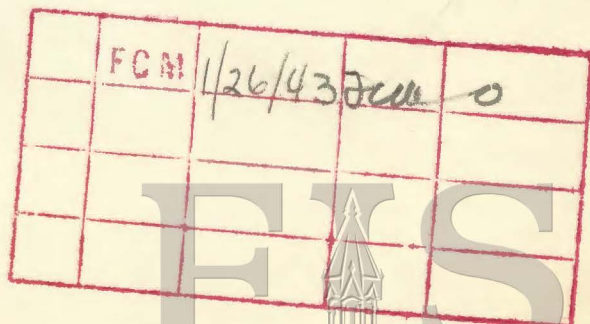
We appreciate your thoughtfulness in calling this to our attention.

Very truly yours,



A. M. Buswell
Professor of Chemistry

AMB:MSA



FISK
UNIVERSITY

FELLOWSHIPS

January 14, 1943

Dear Mr. Black: It was good to hear from you,
although I am sorry to know
of the drastic reductions in the Auburn staff.
None of us around here know of any openings at
the moment, but I plan to call your letter to the
attention of several people who might have fruit-
ful suggestions.

Sincerely yours,

WILLIAM G. HAYWOOD

WCH:MLU

Mr. John D. Black
Alabama Polytechnic Institute
Auburn
Alabama

*John
has job's letter*

FISK
UNIVERSITY

Alabama Polytechnic Institute
 Auburn, Alabama
 Jan. 5, 1943

SCHOOL OF AGRICULTURE
 AGRICULTURAL EXPERIMENT STATION
 AND AGRICULTURAL SUBSTATIONS

Mr. William C. Haygood
 Director for Fellowships
 Julius Rosenwald Fund
 4901 Ellis Ave.
 Chicago, Ill.

	Dec 8	Dec 13
J	JCM	JCM

Dear Mr. Haygood:

At a staff meeting this afternoon we were advised by the president's office that it would be well for us to be looking for other jobs. The indications are at present that perhaps half the faculty in the College of Agriculture will be out of work by the end of the present school year. As the last man added in our department I quite naturally will be the first to be cut adrift. I realize that you are not operating an employment agency or anything of the sort but it has occurred to me that you might possibly know of some place where a vertebrate zoologist could be put to use. We seem to be among the least necessary of all people during this war program, in spite of all the vital importance in normal times of a knowledge of the vertebrate animal.

Nothing has ever come of the Arkansas job except vague promises of something in the uncertain future. I do not insist that my work be permanent, or strictly in vertebrate zoology. Under the circumstances my concern is to make certain that my family is cared for. There seems to be no place for me in the military program. I have taught many zoological subjects, chemistry, biology and other subjects including the coaching of baseball and basketball and would do any or all of these things if necessary, or personnel work or almost anything else, so if you hear of anything that you might believe me suited for I would appreciate learning about as quickly as possible.

Yours very truly

John D. Black
 John D. Black
 Instructor of Zoology

FELLOWSHIPS

August 25, 1941

Dear Mr. Black: Thank you for your card
 giving the good news about
your post at Alabama Polytechnic Institute. I am
happy to know that you are back below the Line,
and I shall look forward to meeting you the next
time I am in Auburn.

Sincerely yours,

WILLIAM C. HAYGOOD

WCH:MLJ

~~Mr. John D. Black~~
424 North West Street
Fayetteville, Arkansas

(Ala. Polytechnic Inst.)

FISK

UNIVERSITY

FELLOWSHIPS

Fayetteville, Arkansas. Aug. 21, 1941.

Dear Mr. Haygood: My appointment as Instructor in the Department of Zoology-Entomology of Alabama Polytechnic Institute has just been confirmed by telegram. I will teach semester courses in conservation, mammalogy, Ichthyology, and a full year course in introductory zoology.

Yours very truly

John P. Black

mailing list

	Went	to	WA	25
J	McRay			

FELLOWSHIPS

Fayetteville, Arkansas
August 12, 1941

Black, John D

Mr. William C. Haygood
Director of Fellowships
Julius Risenwald Fund
4901 Ellis Ave.
Chicago, Ill.

	<i>WCH</i>	<i>14</i>	<i>WCH</i>	<i>14</i>

Dear Mr. Haygood:

The reply to your letter of the 7th has been purposely delayed because I had expected to be able to inform you before now of my return to the South. I am trying to get a position at the Alabama Polytechnic Institute and should have some definite information regarding this job in a day or two. When the matter is definitely decided I shall immediately inform you regarding my exact status.

Returning to Arkansas seems out of the question, although I was hired as the state aquatic biologist by the unanimous vote of the Arkansas Game and Fish Commission last month. For reasons best known to himself Governor Adkins retains a voice in such matters and he has refused to confirm my appointment, although I had the support of his men in this section and there is not another man in Arkansas (a requirement) with the proper training for the position. This is just another of the many recent examples of the interference of politics with the welfare of the people in the South.

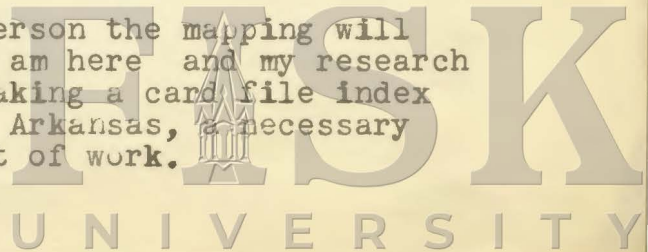
The Alabama Polytechnic job has been in the discussion state for many months and I believe it will work out this time.

There is little new to report concerning my work. You were informed regarding the American Philosophical Society grant for maps (The grant was made from the Penrose Fund of that organization). These maps are here and I am working on them as time permits. The University of Arkansas is providing working quarters and will store the rather large maps during the winter.

The latest publication resulting from the Arkansas work is being mailed to you tonight. I have finished my part on several others which are merely waiting some final touches by Dr. Hubbs before they go to press.

Anderson College has offered to renew my contract for next year at a raise of \$100, which indicates that my work has been extremely satisfactory, and if the Alabama position does not work out I suppose there will be little left for me to do but return to Anderson since the Arkansas situation has become hopelessly involved in politics.

In the event I do return to Anderson the mapping will be pushed as rapidly as possible while I am here and my research time this next winter will be spent in making a card file index for a complete synonymy of the fishes of Arkansas, a necessary item which will require an immense amount of work.



#2

Yours very truly

John D. Black

John D. Black

424 E. West St.
Fayetteville, Ark.

FELLOWSHIPS

D. B.

August 7, 1941

Dear Mr. Black: We are in the midst of preparing for the benefit of our trustees a comprehensive report on the fellowship program of the Julius Rosenwald Fund, and are trying to include in it the latest information possible. We are particularly interested in knowing how your plans have progressed for your return to Arkansas, or to some other post in the South.

Sincerely yours,

WILLIAM C. HAYGOOD

WCH:MLU

Mr. John D. Black
Anderson College
Anderson, Indiana

FISK

UNIVERSITY

FELLOWSHIPS

April 25, 1941

Dear Mr. Black:

Thank you very much for
your note of the 22nd.

I am glad to know of the grant which you have
received from the American Philosophical Society.

I hope that the Arkansas
connection will go through, and I will appre-
ciate your letting the office know when it does.

I have resigned my post
here to become Assistant Administrator of the
Surplus Marketing Administration in Washington.
I have enjoyed my contacts with you during the
past three years, and I hope that we will meet
somewhere again in the not too distant future.

Sincerely yours,

GMR:MLU

GEORGE M. REYNOLDS

MLU

Mr. John D. Black
Anderson College
Anderson, Indiana

FISK
UNIVERSITY

FELLOWSHIPS

ANDERSON COLLEGE

ANDERSON ♦ INDIANA

JOHN A. MORRISON, President

RUSSELL OLT, Dean ♦ ♦ ♦

April 20, 1941

Mr. George M. Reynolds
Director of Fellowships
Julius Rosenwald Fund
Chicago, Ill.

	GMR	22	EL	25

Dear Mr. Reynolds:

card ✓

The American Philosophical Society of Philadelphia has just recently made me a grant of \$100 to purchase maps and mapping equipment to be used in my further study of Arkansas fishes. You will recall that we had some correspondence regarding the desirability of making application for such a grant last year and I thought you would be interested in knowing the final outcome of this project.

There now seems a good possibility that I will return to Arkansas this summer to devote all my time to Arkansas fish and fisheries problems. I shall advise you concerning my future location as soon as the matter is decided.

Yours very truly

John D. Black,
John D. Black.

FELLOWSHIPS

October 2, 1940

Dear Mr. Black: I am very glad to know that
you found something to carry
you through this year, and trust that you will
be able to return to the South next year. Both
of the possibilities you mention sound very
promising.

All good wishes to you.

Sincerely yours,

GEORGE M. REYNOLDS

GMR*MLJ

Mr. John D. Black
Anderson College
Anderson, Indiana

FISK

UNIVERSITY

ANDERSON COLLEGE AND THEOLOGICAL SEMINARY

ANDERSON, INDIANA
Oct. 1, 1940.

	GMR	2	Memo

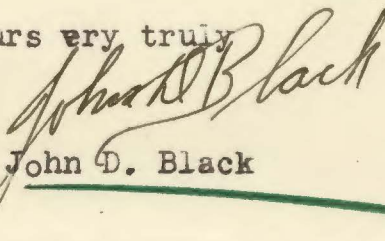
Mr. George A. Reynolds
Julius Rosenwald Fund
4901 Ellis Ave.
Chicago, Ill.

Dear Mr. Reynolds: You will no doubt be somewhat relieved to learn that I have at last found a job. I am teaching biology and chemistry here. The job is interesting and the surroundings pleasant, although it is, of course, not what I had expected to be doing, nor where I had expected to do it.

Professor Dellinger is still working on plans to return me to Arkansas, and Mr. Percy Viosca has some fine plans for some outstanding work along my line in Louisiana and I feel certain that one of these two projects will materialize in another year so that I can return to my home section and go ahead with the work started on the fellowship.

Dr. Hubbs and I are going ahead with researches on the material I collected and we expect to have a rather steady flow of papers from the press all winter. I have one of the most significant on my desk now, in semifinal draft, which completely reclassifies a large section of a minnow family, the problem being clarified by some collections Mrs. Black and I made in northwest Arkansas.

Yours very truly



John D. Black

Julius Rosenwald Fund

Edwin R. Embree
President
Margaret S. Simon
Secretary
D.A. Elvidge
Comptroller

4901 Ellis Avenue
CHICAGO

NEGRO HEALTH
Director
M.O. Bousfield, M.D.
Consultants
Franklin C. McLean, M.D.
Clifford E. Waller, M.D., U.S.P.H.S.

September 25, 1940

Dear Mr. Black: Our trustees have a continuing interest in the work and progress of those who have held Rosenwald Fund fellowships, and we are now in the process of preparing a report for the fall meeting. We will greatly appreciate your bringing us up to date on your career since you were awarded a fellowship, and to expedite your furnishing this information we have listed several questions at the bottom of the page. Will you please answer these and return this sheet to us at your earliest convenience?

Very truly yours,

Mr. John David Black
424 North West Street
Fayetteville, Arkansas

Margaret S. Simon
Director for Fellowships

Present Position
Professor of Biology and Chemistry

Address: Anderson College, Anderson, Indiana

Have you received a promotion or a salary increase since your fellowship was awarded?

~~#####~~

Degrees received during and since your award, with dates:

Ph.D. Michigan, in June, 1940.

Publications, if any: Copeia, March, 1940; Journ. of Mammalogy, May, 1940; University of Michigan Museum, June, 1940, noted.

Several others in, or near, press.

Special honors or activities:

General remarks:



FELLOWSHIPS

August 12, 1940

Dear Mr. Black: On my return to the office today I find your letter of August 29, and a copy of your paper. I appreciate very much your sending this to us.

I am sorry to hear that nothing has developed for you for next year. It occurs to me that a man of your training and experience might be able to secure interesting work with the Government, perhaps either in the Bureau of Fisheries in the Department of Commerce, or in the Bureau of Biological Survey in the Department of Agriculture. A good many positions in both of these departments are under Civil Service but you could arrange to take the proper examination. The directory which I have indicates that Mr. Charles E. Jackson is Deputy Commissioner of the Bureau of Fisheries, Department of Commerce, Washington, and that Mr. Ira M. Gabrielson is Chief of the Bureau of Biological Survey, U. S. Department of Agriculture. It might be worth your while to investigate the positions available in these bureaus if you have not already done so. I will certainly keep you in mind should I hear of anything.

Sincerely yours,

GMR:MLU

GEORGE M. REYNOLDS

Mr. John D. Black
424 North West Street
Fayetteville
Arkansas

FISK
UNIVERSITY

FELLOWSHIPS

August 1, 1940

Dear Mr. Black: Your letter of July 29 and the copy of your latest paper have come while Mr. Reynolds and Miss Utley are away. They will be glad to see the paper, I know, when they return - Miss Utley on Monday, Mr. Reynolds on August 12.

Very truly yours,

W. W. WARE

RW

Mr. John D. Black
424 North West Street
Fayetteville, Arkansas

FISK
UNIVERSITY

424 N. West St.
Fayetteville, Arkansas
July 29, 1940

FELLOWSHIPS

Mr. George M. Reynolds
Julius Rosenwald Fund
4901 Ellis Ave.
Chicago, Ill.

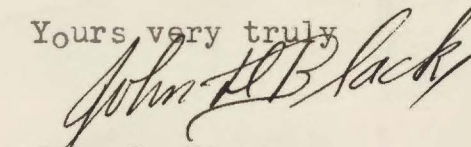
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			RW	8-1

Dear Mr. Reynolds:

I am mailing you today a copy of my latest paper-- a joint study on some Ozark fishes which is a direct result of my work on the fellowship, and a study which places in order one of the most difficult groups of the darters.

So far there have been no new developments regarding a job. Both the teaching job and the work with the Game and Fish Commission here have fallen through because of lack of funds, and all efforts by the men in charge of both the Game and Fish Commission and the Museum here at the University to## raise extra funds have been in vain. Alabama Poly (Auburn) found the same to be true there after it appeared virtually certain I would get a job with them, and so it has gone. In no instance has a man been hired over me, but it simply seems that there are no vacancies, or no funds for new men. It seems certain that I can go on with the fish work here after this year-- that is after the legislature meets again-- but the need of a temporary job to tide me over until that time is very great. There is some chance that the teachers agencies will find some sort of a stop-gap job for me until something can be worked out here. If you hear of any vacancy, even of a temporary nature, I would be glad to know about it.

Yours very truly



John D. Black

FELLOWSHIPS

To Albert Teachers' Agency, 25 East Jackson Boulevard, Chicago
and the Hughes Teachers Agency, 25 East Jackson, Chicago
College and Specialist Bureau, Memphis (July 9, 1940)

July 1, 1940

Mr. John David Black was appointed to a Julius Rosenwald Fund fellowship in 1938. He made such an outstanding record in his work at the University of Michigan that the fellowship was renewed for a year. Before appointing Mr. Black we had complete information concerning his scholarship, teaching ability, character, personality, etc. His record in all of these was completely satisfactory, and it was the basis for his being selected as a Rosenwald Fund Fellow.

I have met Mr. Black on several occasions, and know him to be a man of pleasing personality. He is very cooperative, and I am sure would fit well into any college community.

FELLOWSHIPS

June 17, 1940

Dear Mr. Black: Thank you for sending the two
reprints from the Journal of
Mammology. I shall be glad to bring these to
Mr. Reynolds' attention when he returns to the
office the latter part of the month.

(One Copy)
MU

Very truly yours,
MARGARET L. UTLEY

Secretary to Mr. Reynolds

Mr. John D. Black
~~Department of Zoology~~
University of Arkansas
Fayetteville
Arkansas

Julius Rosenwald Fund

4901 Ellis Avenue
CHICAGO

FELLOWSHIPS

To

Mr. John D. Black

Division of Fishes, Museum of Zoology

University of Michigan

Ann Arbor, Michigan

Payment Voucher No. 1285

Date May 31, 1940

Final payment on fellowship granted 4/12/39 - - - - - \$50.00

Ck.#23061

Accounts	Appropriation No.	Debit	Credit
White Southern Fellowships	38-9A	\$50.00	

Prepared by	Checked by	Posted by	
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Comptroller

7-11-40
DHE
FELLOWSHIPS

May 28, 1940

Dear Mr. Black: The fellowship checks had already been made up and dated before I saw your recent letter to Mr. Reynolds requesting that your check be sent early. Even though it is dated May 31, I am sending it now so that you will be able to cash it the first thing Friday morning.

Very truly yours,

DOROTHY A. ELVIDGE

DAE:RW

Mr. John D. Black
Museum of Zoology
University of Michigan
Ann Arbor, Michigan

FELLOWSHIPS

Ann Arbor, Michigan
May 19 1940

Black, John D

	GMR	21	GR	0
	DE		DE	5/27

Mr. George M. Reynolds
Julius Rosenwald Fund
Chicago, Ill.

Dear Mr. Reynolds:

This letter is written for the main purpose of advising you that the requirements for the Ph.D. degree have been completely satisfied and I will received the degree in June, as planned. The final examination was successfully passed on the 3rd of May. Since then Dr. Hubbs and I have been working jointly on some taxonomic studies. The first of this series appeared in the last issue of Copeia (reprints not available yet), and another very important one is now in galley proof here. We have a third study finished of some size, and two more which we hope to complete before I leave.

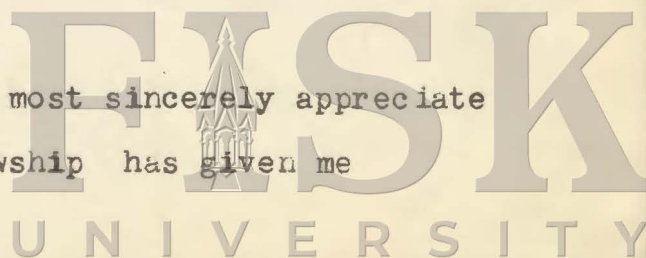
Job prospects remain unchanged. Arkansas still is unable to give me a definite reply and otherwise the field is in worse condition than at any time since 1935.

It would be of some assistance to us if the final check on the fellowship could be mailed a few days early, since we hope to leave here for Arkansas on June 4th and quite naturally will have some added expense in getting away. If such an advance in payment should in any way disrupt your schedule then do not bother, beucase it is not absolutely necessary, but would be a little handier for us.

Mail as requested

As soon as reprints are received of the papers I will send you copies to add to your files.

Let me say at this time that I most sincerely appreciate the help that the Julius Rosenwald fellowship has given me



in the last two years. They have been pleasant and profitable years and the relief of financial worry has contributed greatly toward the freedom of mind necessary for good work. I believe my study has been of considerable importance and the data when made available will be of direct economic value to the south. Professor Dellinger is already making some move toward arranging for publication of the thesis and the prospects in that direction are favorable. He seems to have done everything in his power to bring me back to the University of Arkansas as planned, but the administrative changes have upset his plans. There still remains an outside possibility that he can get outside support for our program.

Yours very truly

John D. Black
John D. Black

Julius Rosenwald Fund

4901 Ellis Avenue
CHICAGO

FELLOWSHIPS

To

Mr. John D. Black

Division of Fishes, Museum of Zoology

University of Michigan


Ann Arbor, Michigan

Payment Voucher No. 1154

Date April 30, 1940

Twelfth installment on fellowship granted 4/12/39 - - - - - \$100.00

CR. #22909

Accounts	Appropriation No.	Debit	Credit
White Southern Fellowships	38-9A	\$100.00	
Prepared by	Checked by	Posted by	
AM			

Comptroller

Julius Rosenwald Fund

4901 Ellis Avenue
CHICAGO

FELLOWSHIPS

To Mr. John D. Black

Division of Fishes, Museum of Zoology

University of Michigan

Ann Arbor, Michigan


Payment Voucher No. 1002

Date March 29, 1940

Eleventh installment on fellowship gratn - - - - - \$150.00

Ck.#22750

Accounts	Appropriation No.	Debit	Credit
White Southern Fellowships	58-9A	\$150.00	

Prepared by AM	Checked by	Posted by	 Comptroller
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Julius Rosenwald Fund

4901 Ellis Avenue
CHICAGO

FELLOWSHIPS

To

Mr. John D. Black

Division of Fishes, Museum of Zoology.
University of Michigan
Ann Arbor, Michigan


Payment Voucher No. 898

Date February 28, 1940

Tenth payment on fellowship granted 4/12/39 ----- \$100.00

Chk. #22628

Accounts	Appropriation No.	Debit	Credit
White Southern Fellowships	38-9A	\$100.00	

Prepared by DAE	Checked by	Posted by	 Comptroller
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FELLOWSHIPS

February 23, 1940

Dear Mr. Black: I have received your letter of February 20, in which you advise that you may not return to the University of Arkansas. I certainly hope that they will be able to find the money to re-employ you.

I was glad to know that you will complete the work for your Ph. D. on schedule. We will certainly keep you in mind, and in case we hear of any openings for a person in your field, we will get in touch with you.

Very truly yours,

GMR:McK

GEORGE M. REYNOLDS

Mr. John D. Black
Division of Fishes
Museum of Zoology
University of Michigan
Ann Arbor, Michigan

FELLOWSHIPS

Ann Arbor, Michigan

February 20, 1940.

	GWR	22	June 23	

Dr. George A. Reynolds
Julius Rosenwald Fund
Chicago, Ill.

Dear Dr. Reynolds:

Within the past few weeks it has become increasingly obvious that Professor Dellinger is going to be unable to get the money to bring me back to the University of Arkansas as he had planned. He has not given up hope, but the situation has developed to the point where I dare wait no longer in starting out to find something else.

The work here has progressed very well and I will get the PhD on schedule, June 17th. Naturally the expenses of thesis, thesis deposit and one thing and another is not going to leave me with any great surplus, so I'm very anxious to at least find out what the future holds for me. Therefore, I am writing to ask that you keep my predicament in mind and should you hear of an opening in my field then please pass the word along to me. I am most definitely interested in a summer job that will begin after June 20, as well as permanent employment. The closer to Arkansas the better, because it will give me just that much more opportunity to utilize my training, but anywhere in the south will be considered.

To save you the trouble of rummaging through your files, where this information is all recorded, of course, let me add that my training has been thorough and complete in mammals, birds and fishes under some of the best brains in these fields, together with an unusually large amount of field experience and a very successful period of teaching. I had rather teach introductory vertebrate zoology than any other subject, but am at home in any number of courses related to vertebrate zoology, such as comparative anatomy, natural history of the vertebrates, special courses in the various vertebrate classes, evolution, and other subjects, and have taught invertebrate and genetics, though I don't claim to be an expert in either of those fields.

Any information leading to a job that you happen to be able to pass along to me will be sincerely appreciated.

For your record there you may be interested to learn that my seminar report, giving the complete staff and the remainder of the zoology graduate students--about 150 in all-- a chance to review and criticize my research, was presented February 8, and favorably received. The first of the series of special studies with Dr. Hubbs has finally passed the proof stage and will soon appear; two others are well along, and we have three more all set to work off as soon as the thesis is completed.

Yours very truly,

John D. Black
John D. Black.

FSK
UNIVERSITY

Julius Rosenwald Fund

4901 Ellis Avenue
CHICAGO

FELLOWSHIPS

To Mr. John D. Black

Division of Fishes, Museum of Zoology

University of Michigan

Ann Arbor, Michigan

Payment Voucher No. 766

Date January 31, 1940

Ninth payment on fellowship grant ----- \$125.00

Ck.#22447

Accounts	Appropriation No.	Debit	Credit
White Southern Fellowships	58-9A	\$125.00	

Prepared by	Checked by	Posted by
AM		



Comptroller

Julius Rosenwald Fund

4901 Ellis Avenue
CHICAGO

FELLOWSHIPS

To Mr. John D. Black

Payment Voucher No. 584

Division of Fishes, Museum of Zoology

Date December 13, 1939

University of Michigan

Ann Arbor, Michigan

Eighth payment on fellowship granted 4/12/39 ----- \$100.00

Ck.#22242

Accounts	Appropriation No.	Debit	Credit
White Southern Fellowships	38-9A	\$100.00	

Prepared by
McK

Checked by

Posted by



Comptroller

Julius Rosenwald Fund

4901 Ellis Avenue
CHICAGO

FELLOWSHIPS

To Mr. John D. Black

Division of Fishes

Museum of Zoology

University of Michigan

Ann Arbor, Michigan


Payment Voucher No. 477

Date November 30, 1939

Seventh installment on fellowship granted 4/12/39 - - - - - \$125.00

Ck.#22131

Accounts	Appropriation No.	Debit	Credit
White Southern Fellowships	38-9A	\$125.00	

Prepared by AM	Checked by	Posted by	 Comptroller
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Julius Rosenwald Fund

4901 Ellis Avenue
CHICAGO

FELLOWSHIPS

To

Mr. John D. Black

Division of Fishes
Museum of Zoology
University of Michigan
Ann Arbor, Michigan

Payment Voucher No. 359

Date October 31, 1939

Sixth installment on fellowship granted 4/12/39 - - - - - \$100.00

Ck./21983

Accounts	Appropriation No.	Debit	Credit
White Southern Fellowships	38-9A	\$100.00	
Prepared by	Checked by	Posted by	Comptroller
AM			



FELLOWSHIPS

October 19, 1939

Dear Mr. Black: I find your letter of the 15th on my return to the office today.

It will be entirely satisfactory as far as we are concerned for you to apply to the National Research Council for a grant to cover the maps, and you may of course mention that you are working under one of our fellowships.

We do not have special funds for the printing of material. I should, however, like to know the outcome of your application to the Council.

Very truly yours,

GMR:MLU

George M. Reynolds

Mr. John D. Black
Fish Division
Museum of Zoology
Ann Arbor, Michigan

FELLOWSHIPS

	GMR	16	GMR	19

Black, John D

Ann Arbor, Michigan
October 15, 1939

Mr. George M. Reynolds
Julius Rosenwald Fund
Chicago, Ill.

Dear Mr. Reynolds;

It has been apparent for some time that a set of large lithoprinted maps of Arkansas streams would be most desirable, almost imperative, for my work. Dr Hubbs arranged to have a draughtsman make a master copy last year, and at the time it was thought that the University of Arkansas could finance the lithoprinting of the necessary maps. Professor Dellinger has found this impossible. Dr. Hubbs has tried to do something here, but finds that according to University regulations no research funds are available for this work.

I am writing, therefore, to ask if there would be any objection to my making application with some research fund, such as the National Research Council, for \$100.00 (the approximate cost of 500 maps) to finance the printing of these maps, and in using the information that I am a holder of one of your fellowships in making such application?

I am assuming that there is no fund under your administration for such extra expenditure. If there is will you please advise me how to go about applying for such a grant, and something about the time required? The time element is going to be important at this stage of my work.

Yours very truly,

John D. Black

John D. Black
Fish Div. Museum
Ann Arbor, Michigan.

FISK
UNIVERSITY

Julius Rosenwald Fund

4901 Ellis Avenue
CHICAGO

FELLOWSHIPS

To

Mr. John D. Black

Division of Fishes, Museum of Zoology

University of Michigan

Ann Arbor, Michigan


Payment Voucher No. 255

Date September 29, 1939

Fifth installment on fellowship granted 4/12/39 ----- \$150.00

Cr. #21860

Accounts	Appropriation No.	Debit	Credit
White Southern Fellowships	38-9A	\$150.00	

Prepared by	Checked by	Posted by	 Comptroller

Julius Rosenwald Fund

4901 Ellis Avenue
CHICAGO

FELLOWSHIPS

To

Mr. John D. Black

424 North West Street

Fayetteville, Arkansas

Payment Voucher No.

118

Date

August 31, 1939

Fourth installment on fellowship granted 4/12/39 - - - - - \$200.00

Chk. #21707

Accounts	Appropriation No.	Debit	Credit
White Southern Fellowships	58-9A	\$200.00	
Prepared by McK	Checked by	Posted by	Comptroller



Julius Rosenwald Fund

4901 Ellis Avenue
CHICAGO

FELLOWSHIPS

To

Mr. John D. Black

424 North West Street

Fayetteville, Arkansas


Payment Voucher No. 16

Date July 31, 1959

Third payment on fellowship granted 4/12/59 - - - - - \$150.00

Ch. #21562

Accounts	Appropriation No.	Debit	Credit
White Southern Fellowships	58-9A	\$150.00	

Prepared by	Checked by	Posted by	 Comptroller
AM			

Julius Rosenwald Fund

4901 Ellis Avenue
CHICAGO

FELLOWSHIPS

To

Mr. John D. Black
424 North West Street
Fayetteville, Arkansas


Payment Voucher No. 74

Date July 1, 1939

Second installment on fellowship granted 4/12/39 - - - - - \$150.00

Ck.#21636

Accounts	Appropriation No.	Debit	Credit
White Southern Fellowships	38-9A	\$150.00	

Prepared by	Checked by	Posted by	
AM			



UNIVERSITY

Julius Rosenwald Fund

4901 Ellis Avenue
CHICAGO

FELLOWSHIPS

To

Mr. John David Black
424 North West Street
Fayetteville, Arkansas

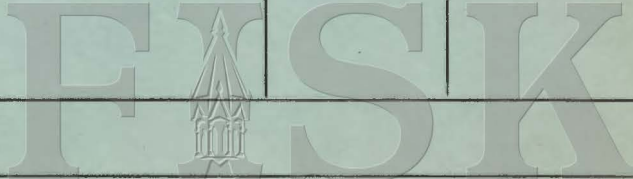
Payment Voucher No. 8175

Date May 31, 1939

Final payment on fellowship granted 4/16/39	-----	\$ 50.00
First payment on fellowship granted 4/12/39	-----	<u>100.00</u>
		<u>\$150.00</u>

Ck. #21533

Accounts	Appropriation No.	Debit	Credit
White Southern Fellowships	37-8A	\$ 50.00	
White Southern Fellowships	38-9A	<u>100.00</u>	
		<u>\$150.00</u>	

Prepared by	Checked by	Posted by	 FISK UNIVERSITY
AM			

Comptroller

Ann Arbor, Michigan
May 10, 1939.

FELLOWSHIPS

Miss Dorothy A. Elvidge
Comptroller, Julius Rosenwald Fund
4901 Ellis Ave.
Chicago, Ill.

	DE	5/11	DE	.
	mlu		mlu	o

Dear Miss Elvidge;

Since writing the fund, addressed to Mr. Reynolds, replied to in yours of the 5th, concerning schedule of payments for next year I find that I will be able to get away from here on May 31st, instead of June 2nd, as planned. The June check, therefore, including the \$50.00 of the present fellowship and the first \$100.00 of the renewal, which you plan to send as one check, should be sent to the Arkansas address, instead of here.

note on form

It will probably be better to hold this in the office there until June 4 or 5, since there will be no one at the Arkansas address to receive mail before June 5 or 6.

Yours very truly,

John D. Black
John D. Black.

FELLOWSHIPS

May 5, 1959

Dear Mr. Black: We shall be pleased to make payment of your fellowship grant in accordance with the plan which you have submitted in your recent letter to Mr. Reynolds. You probably remember that there is an unpaid balance of \$50 in the grant awarded you in 1958. I shall add this amount to the first payment on your grant for the current year, making a total payment for June of \$150.

I have also made a note of the two addresses given in your letter and shall see that checks are sent to the proper address.

Very truly yours,

Donna A. Smith

DE:AM

Mr. John D. Black
Division of Fishes, Museum of Zoology
University of Michigan
Ann Arbor, Michigan

FELLOWSHIPS

Ann Arbor, Michigan
May 3, 1939.

Mr. George M. Reynolds
Director of Fellowships
Julius Rosenwald Fund
4901 Ellis Ave.
Chicago, Ill.

	GMR	5	4000	
	DE		58	5/5
			1	

Dear Mr. Reynolds;

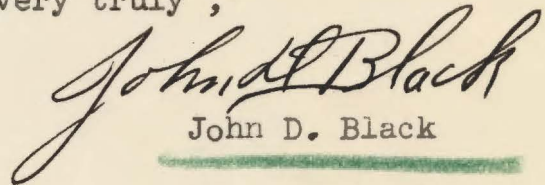
In working out the expected expenses for the coming year it seems that the following schedule of payments will best suit my purposes:

June 7 - - - - \$100.00
July 1 - - - - 150.00
Aug. 1 - - - - 150.00
Sept. 1 - - - - 200.00
Oct. 1 - - - - 150.00
Nov. 1 - - - - 100.00
Dec. 1 - - - - 125.00
Jan. 1 - - - - 100.00
Feb. 1 - - - - 125.00
Mar. 1 - - - - 100.00
April 1 - - - - 150.00
May 1 - - - - 100.00
June 1 - - - - 50.00
Total - - - - 1600.00

The mailing address for the first four checks (June through Sept, 1939) should be:
424 N. West St., Fayetteville, Arkansas.

The remainder should be sent to the present address.

Yours very truly,


John D. Black

John D. Black
Div. Fishes, Museum of Zoology
University of Michigan
Ann Arbor, Michigan.

Julius Rosenwald Fund

4901 Ellis Avenue
CHICAGO

FELLOWSHIPS

To Mr. John David Black
Museum of Zoology, Division of Fishes
University of Michigan
Ann Arbor, Michigan


Payment Voucher No. 8065

Date April 28, 1939

Twelfth payment on fellowship granted 4/16/38 - - - - - \$100.00

Ck.#21177

Accounts	Appropriation No.	Debit	Credit
White Southern Fellowships	57-8A	\$100.00	

Prepared by AM	Checked by	Posted by	 Comptroller

FELLOWSHIPS

Ann Arbor, Michigan

April 18, 1939

	GMR	19	end.	
	De		De	

Mr. George M. Reynolds
Director of Fellowships
Julius Rosenwald Fund
4901 Ellis Ave.
Chicago, Ill.

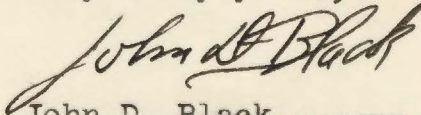
Dear Mr. Reynolds:

Your letter of April 12th informing me of renewal of my fellowship was awaiting my return from the field yesterday. I am very glad to accept the renewal since it will enable me to complete the original program in a creditable manner.

It is probable that the payments will best follow the same schedule as this year, but I will work that out in detail and let you know my definite needs as soon as this can be known with certainty.

Needless to say I am very grateful to you, to the rest of the fellowship committee, and to those who have made the fund for this purpose available, for this generous grant.

Very truly yours,



John D. Black
Division of Fishes
Museum of Zoology
University of Michigan
Ann Arbor, Michigan.

Julius Rosenwald Fund

4901 Ellis Avenue
CHICAGO

FELLOWSHIPS

To

Mr. John David Black
Museum of Zoology, Division of Fishes
University of Michigan
Ann Arbor, Michigan

Payment Voucher No. 7926

Date March 31, 1939

Eleventh payment on fellowship granted 4/16/38 - - - - - \$140.00

Ch. #21027

Accounts	Appropriation No.	Debit	Credit
White Southern Fellowships	87-8A	\$140.00	

Prepared by	Checked by	Posted by
DAE		



UNIVERSITY

Comptroller

Julius Rosenwald Fund

4901 Ellis Avenue
CHICAGO

FELLOWSHIPS

To

Mr. John David Black
Museum of Zoology, Division of Fishes
University of Michigan
Ann Arbor, Michigan

Payment Voucher No. 7738

Date February 28, 1939

Tenth payment on fellowship granted 4/16/38 - - - - - \$100.00

Ck.#20864

Accounts	Appropriation No.	Debit	Credit
White Southern Fellowships	87-8A	\$100.00	

Prepared by	Checked by	Posted by
AM		



Comptroller

Julius Rosenwald Fund

4901 Ellis Avenue
CHICAGO

FELLOWSHIPS

To

Mr. John David Black
Museum of Zoology, Division of Fishes
University of Michigan
Ann Arbor, Michigan

Payment Voucher No. 7666

Date January 31, 1939

Ninth payment on fellowship granted 4/16/38 ----- \$180.00

Ck.#20718

Accounts	Appropriation No.	Debit	Credit
White Southern Fellowships	37-8A	\$180.00	

Prepared by	Checked by	Posted by
AM		



Comptroller

FELLOWSHIPS

Rec'd 1/5

December 19, 1938

Dear Mr. Black: Your letter of the 17th has
come in Mr. Reynolds' absence
from the office, but I shall be glad to bring it
to his attention when he returns on the 28th.
February 15 is the final date that has been set
for the acceptance of an application for the renewal
of a fellowship, and there will, therefore, be ample
time for him to answer the questions you raise.

Very truly yours,
MARGARET L. UTLEY
Secretary to Mr. Reynolds

Mr. John D. Black
Division of Fishes
Museum of Zoology
Ann Arbor, Michigan

FISK
UNIVERSITY

John D. Black
12/28

Division of Fishes, Museum of Zoology
Ann Arbor, Michigan

Dec. 17, 1938.

FELLOWSHIPS

Mr. George M. Reynolds
Director of Fellowships
Julius Rosenwald Fund
4901 Ellis Ave.
Chicago, Ill.

	GMR	19	Nov 19	

Dear Mr. Reynolds;

Developments of the past few days have clearly shown that it will be impossible to finish the study of the distribution of Arkansas fishes this year. We have discovered four new species or subspecies with peculiar northern affinities, believe we have one or two more, possibly others, and are encountering a most of troublesome, but most fascinating, complications which are most promising, but which will require more field work as well as museum study. The specimens in the Field Museum (The only really considerable collection of Arkansas material not at Michigan) will have to be examined, since these and other new discoveries reveal many interesting mistakes which can be checked in no other way. It will probably be desirable to examine types in the United States National Museum as well. The problem as it now stands promises to explain many things regarding the fishes of the south, effecting not only Arkansas, but all the region.

This naturally leads to the inquiry concerning a possible renewal of my grant. Please advise the probability of obtaining such renewal, whether it can be applied over two years or one if such renewal is made (A tentative plan would put me into the field two summers, here both succeeding semesters, and teaching at Arkansas the other semester of each year), and let me know the date at which such application should be formally made, and the steps to take in filing my application.

Yours very truly,

John D. Black
John D. Black.



Julius Rosenwald Fund FELLOWSHIPS

4901 Ellis Avenue
CHICAGO

To Mr. John David Black
Museum of Zoology, Division of Fishes
University of Michigan
Ann Arbor, Michigan


Payment Voucher No. 7588

Date December 16, 1933

Eighth payment on fellowship granted 4/16/33 - - - - - \$100.00

Ck.#20568

Accounts	Appropriation No.	Debit	Credit
White Southern Fellowships	37-8A	\$100.00	

Prepared by AM	Checked by	Posted by	 Comptroller
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Julius Rosenwald Fund

4901 Ellis Avenue
CHICAGO

FELLOWSHIPS

To

Mr. John David Black

Museum of Zoology, Division of Fishes

University of Michigan

Ann Arbor, Michigan


Payment Voucher No. 7395

Date November 30, 1938

Seventh payment on fellowship granted 4/16/38 ----- \$120.00

Ok. #20426

Accounts	Appropriation No.	Debit	Credit
White Southern Fellowships	37-8A	\$120.00	

Prepared by	Checked by	Posted by	 Comptroller
AM			

Julius Rosenwald Fund

4901 Ellis Avenue
CHICAGO

FELLOWSHIPS

To

Mr. John David Black

Museum of Zoology, Division of Fishes

University of Michigan

Ann Arbor, Michigan


Payment Voucher No. 7501

Date October 31, 1938

Sixth payment on fellowship granted 4/16/38 ----- \$100.00

Ch.#20314

Accounts	Appropriation No.	Debit	Credit
White Southern Fellowships	57-8A	\$100.00	

Prepared by AM	Checked by	Posted by	 Comptroller
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Ann Arbor, Michigan
Oct. 15, 1938.

FELLOWSHIPS

Mr. Edwin R. Embree, President
Julius Rosenwald Fund
Chicago, Ill.

E. R. Embree
G. M. R. O.

Dear Mr. Embree;

This will acknowledge your letter of the 11th. I sincerely appreciate your broad minded attitude in this matter. Permission to go ahead with the altered plan will, I believe, lead to about twice as much in the way of immediate results, and certainly will help me lay a firmer foundation for future work in Arkansas.

Yours very truly,

John D. Black
John D. Black.

FISK
UNIVERSITY

FELLOWSHIPS

October 11, 1938

Dear Mr. Black: In Mr. Reynolds' absence from the office on a ten-day southern trip, your letter regarding the change in your plan has come to me.

If the shift in emphasis on your problem seems wise to you and to Dr. Hubbs, it is agreeable to us. We never want to restrict the details of a study. And even such a major shift in emphasis as you propose we prefer to leave to the judgment of you and your scientific advisors. The purpose of the fellowship is to give to the most competent men we can select an opportunity to work on problems which seem to them most likely to be fruitful to science and to the South.

Very truly yours,

ERE:MLU

Mr. J. D. Black
~~Museum of Zoology~~
Division of Fishes
University of Michigan
Ann Arbor, Michigan

FELLOWSHIPS

Museum of Zoology,
Division of Fishes,
University of Michigan,
Ann Arbor, Michigan .

Oct. 9, 1938.

Black, John D

Mr. George M. Reynolds
Director of Fellowships
Julius Rosenwald Fund
4901 Ellis Ave.
Chicago, Ill.

	GMR	10	GMR	
	EPG			

Dear Mr. Reynolds;

After several weeks of careful consideration of the various aspects of my proposed research and consultation with Dr. Hubbs, it seems evident that the greatest amount of *benefit* to Arkansas, to Science in general and to myself will be derived by shifting the emphasis in my study. Dr. Hubbs has suggested that I write you fully explaining the situation and asking your permission to make this change. He has offered to write you supporting my statements if you desire him to do so.

I was able to secure some 35,000 to 40,000 fishes during my summer field work. Before any proposed economic problem can be undertaken it is first necessary to sort these specimens according to species. This means the foundation work for a Fishes of Arkansas has to be accomplished before any other type of work can be entered into. It so happens that virtually nothing has been ^{done} with the Arkansas fishes since the very out of date studies of Meek in 1891 and before. Dr. Hubbs thinks, and I thoroughly agree with him, that I can accomplish more by concentrating my work on the taxonomy and distribution of Arkansas fishes during my residence here, since this enormous

Mr.Reynolds, #2.

collection will be at my disposal in making the necessary detailed and critical studies connected with such an undertaking , as well as Dr. Hubb's unparalleled advice and criticism on a problem of this kind. After an intensive training of this type it would be a relatively simple matter to independently work out the life histories of various species upon my return to Arkansas, since this systematic work will serve to acquaint me with the various species, their habitats, and much of their life history as a by product of the systematic studies. The reverse would not be true; a straight economic problem would leave me dependant (see my original plan,where I state that a Fishes of Arkansas will result from the field work,with the assistance of another) upon Dr. Hubbs or some other capable worker to help with the distributional study later. That could not readily be ascertained prior to coming here, but is now rather obvious.

The very limited amount of information now available on Arkansas fishes makes it further obvious that the greatest possible stimulus to interest in biology within the state would be the publication of a paper, available alike to scientists and state residents, dealing with the fishes of the state. In the newly established Occasional Papers of the University of Arkansas Museum (see my last reptile and amphibian reprints) which I urged and succeeded in having established last year I have an ideal outlet for either a systematic or economic paper, or both.

In short--- the circumstances seem to me to clearly indicate that the principle of the Julius Rosenwald Fund as well as my own interests and the interests of the south in general will best be served by a reversal of my original

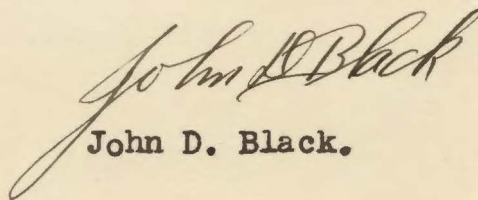
Mr. Reynolds #3

plan, and the working out and publishing of a "Fishes of Arkansas " prior to the food and growth studies of a few species; this to come later , of course, just as a "Fishes of Arkansas " was planned later under the original program.

Please understand that the situation here for carrying on an economic study, as originally planned, is the best in the world, and can still be carried out if it is your wish, but Dr. Hubbs and I have carefully given the problem considerable study from various viewpoints and believe the alternative plan as here submitted will be much more profitable for all concerned.

I would appreciate a reply giving your reactions to this proposed change of plan at the earliest possible date.

Yours very truly,

A handwritten signature in cursive script that reads "John D. Black". The signature is written in dark ink and is positioned above the printed name.

John D. Black.

Julius Rosenwald Fund FELLOWSHIPS
 4901 Ellis Avenue
 CHICAGO

To
Mr. John David Black
Museum of Zoology, Division of Fishes
 University of Michigan
 Ann Arbor, Michigan

Payment Voucher No. **7144**
 Date **September 30, 1938**

Fifth payment on fellowship granted 4/18/38 - - - - - \$140.00

Ck. #20189

Accounts	Appropriation No.	Debit	Credit
White Southern Fellowships	57-8A	\$140.00	

Prepared by	Checked by	Posted by
AM		



FELLOWSHIPS

September 8, 1938

Dear Mr. Black: Thank you very much for sending the two research papers. I am very glad to add these titles to your information card.

Mr. Paty has left the Fund to become president of Birmingham-Southern College, and the new director, Mr. George M. Reynolds, will be in the office on the 15th. Should you be in Chicago any time during the coming year please be sure to stop in to see us. Our office is not, by the way, open on Saturdays.

Very truly yours,

MARGARET L. UTLEY

Secretary to Mr. Reynolds

Mr. J. D. Black
Museum of Zoology
Division of Fishes
University of Michigan
Ann Arbor, Michigan

FISK
UNIVERSITY

Julius Rosenwald Fund

4901 Ellis Avenue
CHICAGO

FELLOWSHIPS

To
Mr. John David Black
Museum of Zoology, Division of Fishes
University of Michigan
Ann Arbor, Michigan

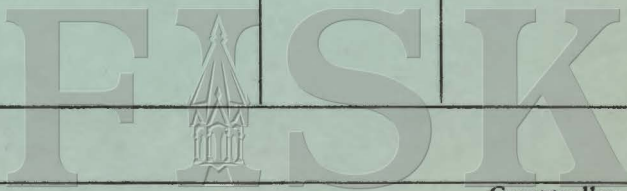
Payment Voucher No. 7009

Date August 31, 1938

Fourth installment on fellowship granted 4/16/38 - - - - - \$200.00

Cr.#19971

Accounts	Appropriation No.	Debit	Credit
White Southern Fellowships	37-8A	\$200.00	

Prepared by AM	Checked by	Posted by	 Comptroller

Julius Rosenwald Fund
4901 Ellis Avenue
CHICAGO

FELLOWSHIPS

To

Mr. John David Black
424 North West Street
Fayetteville, Arkansas

Payment Voucher No. 8955

Date July 29, 1938

Third payment on fellowship granted 4/16/38 ----- \$160.00

Ck. #19914

Accounts	Appropriation No.	Debit	Credit
White Southern Fellowships	37-8A	\$160.00	

Prepared by
DAE

Checked by

Posted by



Comptroller

Julius Rosenwald Fund

4901 Ellis Avenue
CHICAGO

FELLOWSHIPS

To

Mr. John David Black
424 North West Street
Fayetteville, Arkansas


Payment Voucher No. 6924

Date July 1, 1938

Second payment on fellowship granted 4/16/38 - - - - - \$140.00

Ck.#19863

Accounts	Appropriation No.	Debit	Credit
White Southern Fellowships	57-8A	\$140.00	

Prepared by AM	Checked by	Posted by	 Comptroller

Julius Rosenwald Fund

4901 Ellis Avenue
CHICAGO

FELLOWSHIPS

To


Mr. John David Black
424 North West Street
Fayetteville, Arkansas

Payment Voucher No. 6788

Date June 14, 1938

First payment on fellowship granted 4/16/38 ----- \$70.00

Ch.#19707

Accounts	Appropriation No.	Debit	Credit
White Southern Fellowships	37-8A	\$70.00	
Prepared by AM	Checked by	Posted by	 FISK UNIVERSITY Comptroller

UNIVERSITY OF ARKANSAS
COLLEGE OF ARTS AND SCIENCES
FAYETTEVILLE

FELLOWSHIPS

DE

DEPARTMENT OF ZOOLOGY

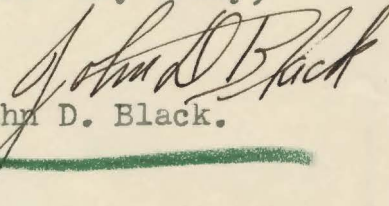
May 27, 1938

Miss Dorothy A. Elvidge
Comptroller, Julius Rosenwald Fund
Chicago, Ill.

Dear Miss Elvidge;

The program of payments on my grant as modified in yours of the 25th is quite satisfactory, and the addresses correct-----424 North West Street through August and the Sept. 1st and following checks and other correspondence to me at the Division of Fishes, Museum of Zoology, Univ. of Michigan, Ann Arbor, Michigan.

Yours very truly,


John D. Black.

FELLOWSHIPS

May 25, 1938

Dear Mr. Black: I have seen the payment schedule outlined in your recent letter to Mr. Paty. If it wouldn't inconvenience you, we should prefer to make payments monthly, changing your suggested plan to read as follows:

June 15,	\$ 70.00	January 1,	100.00
July 1,	140.00	February 1,	180.00
August 1,	160.00	March 1,	100.00
September 1,	200.00	April 1,	140.00
October 1,	140.00	May 1,	100.00
November 1,	100.00	June 1,	50.00
December 1,	120.00	Total	\$1,600.00

Checks will be sent to the addresses given in your letter unless we hear from you to the contrary.

Very truly yours,

DOROTHY A. ELYNOR

DE:AM

Mr. John D. Black
424 N. West Street
Fayetteville, Arkansas

**FISK**
UNIVERSITY

FELLOWSHIPS

May 24, 1938

Dear Mr. Black: I have referred the matter of
your fellowship payments to
Miss Elvidge, our Comptroller, who will write
you about your plan.

As requested, I have sent you
a group of Fund publications which will give you
a general idea of the scope of our programs.

I shall be glad to have you write
me at any time regarding the progress of your work,
and to be of whatever assistance I can during the
year.

Very truly yours,

RP*MLJ

Mr. John D. Black
Department of Zoology
University of Arkansas
Fayetteville, Arkansas

**FISK**
UNIVERSITY

UNIVERSITY OF ARKANSAS
COLLEGE OF ARTS AND SCIENCES
FAYETTEVILLE

FELLOWSHIPS

DEPARTMENT OF ZOOLOGY

May 22, 1938.

Black, John D

Mr. Raymond Paty
Director of Fellowships
Julius Rosenwald Fund
Chicago, Ill.

	RRP		RP	5/24
	OE		KE	5/24

Dear Mr. Paty;

After receiving notice from you of my appointment April 13th I had expected to hear further from you confirming this finally, or the list of fellowship holders as well as something concerning your statement that payment would be arranged to suit my particular needs. Apparently you have expected me to write concerning this.

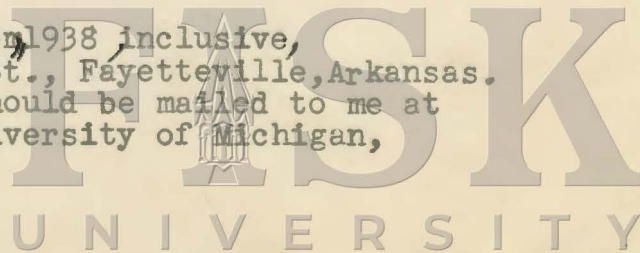
I have worked out my expected expenses for the coming year. Payments on the first and 15th of the month would be preferable to me; if you follow some other sort of plan this can be modified, of course, according to your custom. On the basis of ~~#####~~ semi-monthly payments the following plan would suit me best, since it would care for travel, fees insurance and all other expenses in their proper sequence:

June 15	-----	\$70.00
July 1	-----	70.00)
July 15	-----	70.00)
Aug. 1	-----	70.00)
Aug. 15	-----	90.00)
Sept. 1	-----	70.00)
Sept 15	-----	130.00)
Oct. 1	-----	90.00)
Oct. 15	-----	50.00)
Nov. 1	-----	50.00)
Nov. 15	-----	50.00)
Dec. 1	-----	70.00)
Dec. 15	-----	50.00)
Jan. 1	-----	50.00)
Jan. 15	-----	50.00)
Feb. 1	-----	130.00)
Feb. 15	-----	50.00)
Mar. 1	-----	50.00)
Mar. 15	-----	50.00)
Apr. 1	-----	90.00)
Apr. 15	-----	50.00)
May 1	-----	50.00)
May 15	-----	50.00)
June 1	-----	50.00)
		\$ 1600.00

I suggest, if come, that there be arranged in monthly payments. A.P.

see it for me

Checks from June 15, 1938 to Aug. 15, 1938 inclusive, should be mailed to me at 424 North West St., Fayetteville, Arkansas. From Sept 15, 1938 to June 1, 1939 checks should be mailed to me at Museum of Zoology, Division of Fishes, University of Michigan, Ann Arbor, Michigan.

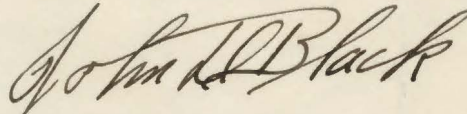


Paty #2

I'm afraid I do not know as much about the activities of the Julius Rosenwald Fund as I should. If pamphlets outlining the activities of the various divisions are available they would be appreciated; if this information is available in published form in libraries I would like to have the references. I am faced with many questions concerning the fund by friends and associates who have seen the published accounts of my appointment. Some I have been able to answer and some I have not.

I have been able to edge in a little field work on this problem during the spring but three papers now in their final stages have pretty well limited other work until about the 5th of June. After that I expect to devote my entire time to the forage fish problem.

Yours very truly,



John D. Black.

John D. Black
424 N. West St
Fayetteville, Arkansas.

UNIVERSITY OF ARKANSAS
COLLEGE OF ARTS AND SCIENCES
FAYETTEVILLE
April 18, 1938.

FELLOWSHIPS

DEPARTMENT OF ZOOLOGY

Dr. Raymond Paty
Director for Fellowships
Julius Rosenwald Fund
4901 Ellis Ave.
Chicago, Ill.

	RRP	20	RP	0

Dear Dr. Paty;

Yours of the 16th received this morning. I am very glad to accept the grant of Sixteen hundred dollars made by the Committee on Fellowships.

To you and to each member of the Committee I would like to extend my most sincere appreciation for your having favorably acted on my application. I shall try in every possible way to make the results of my study, made possible by this grant, measure up to your fullest expectations.

Yours very truly,

John D. Black
John D. Black.

UNIVERSITY OF ARKANSAS
COLLEGE OF ARTS AND SCIENCES
FAYETTEVILLE

DEPARTMENT OF ZOOLOGY

Jan. 13, 1938.

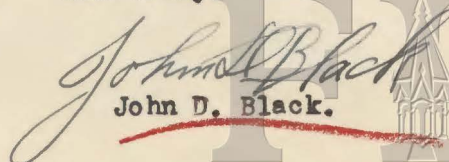
Director of Fellowships,
Julius Rosenwald Fund,
4901 Ellis Ave.,
Chicago, Ill.

Dear sir;

Herewith I am submitting my application for a Julius Rosenwald Fellowship for the year 1938-39, together with all documents required except the official transcript. Transcript from Indiana University, which should include official record of all graduate and undergraduate work, has probably reached you ahead of this, since I wired for it to be sent direct to you.

I learned of the fellowships only yesterday morning, and secured the application blanks with detailed information late yesterday afternoon. My detailed program, therefore, lacks polish, but since I have had the idea in mind for some two years the theme is, I believe, rather completely worked out. I should point out that all the other grants that I know of in this field requires field work to be done in the state that provides the funds, and knowing that it was impossible to secure funds here the details of the program have been postponed until a regular faculty position could be secured here. The work at Indiana was undertaken with the idea that it would provide satisfactory training for the subsequent work in Arkansas. The illness and subsequent death of Dr. Will Scott, my major professor at Indiana, made a change in schools imperative. The instructorship here was offered to bridge the gap until satisfactory arrangements could be made to continue my studies.

Sincerely,


John D. Black.


UNIVERSITY

Studies on the life histories of certain minnows of the genus Notropis and relatives, especially those species that live in abundance in the streams of Arkansas.

This work will include field collections and field studies in Arkansas throughout the coming summer. This will provide the necessary field background for the subsequent laboratory studies. Habitat, numbers, reproduction, natural enemies and desirability as food for game fishes will be ascertained in the field.

Laboratory studies on this material will show quantity and nature of food, parasites and their effectiveness, number of eggs produced, rate of growth, age attained, and abundance of relative age groups.

It may be found necessary to return to the field a second summer for additional data, but this is improbable.

Startlingly little is known at present about this problem, and almost nothing of the southern species. It is an important aspect of our program for the conservation of wild life, since these minnows are the chief source of food for the game fishes, and are the most important link in the chain of aquatic life beginning in the minute invertebrates and plants and culminating in our game fish.

The use of these minnows as food in hatcheries is a second important aspect, and an effort has been made, and will continue to be made, to find means whereby certain of these minnows can effectively be reared in hatcheries for hatchery use. This would effect considerable savings to the state hatcheries of the section, as well as further aid in the conservation of our natural wild life through making it unnecessary to destroy wild minnows for this food; a most significant item under present conditions.

The data is also of great importance in stocking new artificial lakes, such as are now being built in great numbers throughout the country.

As an incidental part of this program the collections secured will make it possible for myself and others to work out the taxonomy and distribution of the minnows and other fishes of Arkansas and thereby place the study of our aquatic life on a sound scientific basis for the future use of other students of vertebrate zoology in the south.

After completion of the major problem this data could be, as is at present planned, incorporated into a bulletin type of publication on the Fishes of Arkansas and distributed, through the Arkansas Game and Fish Commission, to the high schools and sportsmen of the state, thereby serving to increase greatly the interest in wild life and its preservation here. Public education in conservation is certainly our most serious zoological problem of the present, and this is especially true in the south.

During my three summers on the Fisheries Research program at Indiana I studied intensively the life history of one of these minnows, Notropis volucellus volucellus Cope. These studies are partially summarized in my Master's thesis, which is now being considered for publication by the Indiana Game and Fish Commission. Additional data and material are now being studied, especially on food, growth and reproduction. Additional data on Notropis whipplii and Ericymba ducatta are at hand, and additional material already collected. A large series of fish for my use are now in Dr. Hubbs's care, in addition to those I have here.

Collections and habitat observations of minnows of this vicinity were started last fall, and are being continued.

The study can be completed in not more than two years, and may be brought to a satisfactory state of completeness in one, although a more thorough job could be done if two full years were allowed for the study.

The work will be carried on under the supervision of Dr. Carl L. Hubbs, Curator of Fishes, Museum of Zoology, University of Michigan, Ann Arbor, Michigan, and the school work will be in residence there. It will have the sanction, and cooperation during the field work, of the Arkansas Game and Fish Commission.

It would in some respects be preferable to do this work in a southern school, but Dr. Hubbs is so outstanding in this field that the advantages of working with him would far exceed the disadvantages of location.

Preliminary work will almost certainly be published by the Indiana Game and Fish Commission. The Arkansas studies may be published by the same group, by the U.S. Bureau of Fisheries, the Univ. of Michigan publications, Copeia, or the Arkansas Game and Fish Commission. The life history results and the taxonomical-distributional data will be published separately, the first as a purely scientific thesis, the second as a scientifically accurate, but popular, bulletin.

I hope to continue teaching in the University of Arkansas, and indications are that this is a reasonable expectation. My work will include further study on fish life histories, for the dozens of species we have, as well as the enlargement of my work on the mammals of Arkansas, and other Arkansas vertebrates. The field here is almost untouched and offers exceptional opportunities for a life time of useful research and education.

Each of the men listed as references (four) are in a position to present authoritative views upon different aspects of the proposed problem.

P P 9.

JULIUS ROSENWALD FUND

4901 ELLIS AVENUE

CHICAGO

Confidential Report on Candidate for Fellowship

Name of Candidate Mr. John D. Black

Report Requested of Dr. Carl L. Hubbs, Museum of Zoology
University of Michigan, Ann Arbor

The above named candidate has applied to this Fund for a fellowship and has given your name as a reference. A statement of the candidate's plan of work is attached. Please return it with your statement.

We shall appreciate a frank statement of your opinion of this applicant's abilities and personal characteristics, and an appraisal of his plan of work. An early reply to this inquiry will be of great assistance in allowing the Fellowship Committee sufficient time for an adequate review of the large number of candidates who apply for grants.

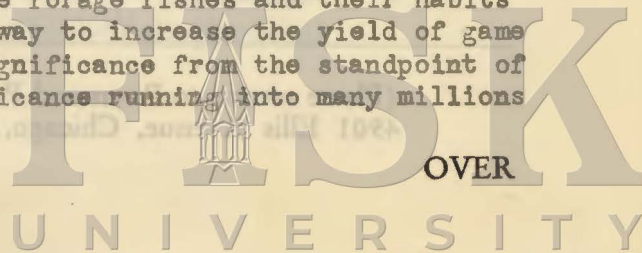
Your reply will be held in strictest confidence.

Raymond Patz
Director for Fellowships

REPORT

I have been acquainted with Mr. John D. Black and have become familiar with his researches on fishes for several years. He has displayed marked ability in his academic work, as his record will show, and he has no doubt received very excellent training at the Indiana University. He has tackled a problem in economic ichthyology that is distinctly related to fish management. This is a field of technical endeavor which is rapidly coming to the front and gives great promise of value in the utilization of our aquatic resources, particularly from a recreational standpoint. To date the development of this field has lagged almost to the point of total neglect in the South, so that it is a matter of very material gratification to us to see a young man from that region so keen in his interests and so determined to advance as Mr. Black.

The particular problem in which Mr. Black has become interested is one that we speak of as the forage fish problem, because the small minnows and shiners are of basic significance in the growth and increase of the game fishes. We have already obtained good evidence that through a study of these forage fishes and their habits we are able to increase their numbers, and in this way to increase the yield of game fish. This is a matter not only of great social significance from the standpoint of healthy recreation, but also one of economic significance running into many millions of dollars annually.



I am strongly of the opinion that a grant to aid Mr. Black would be of real value in developing an important phase of economic biology, and can assure you that an advance of this sort in the South now would be of particular value in that it would encourage other work there. I hope that Mr. Black's application will receive favorable consideration from your Board.

Confidential Report on Candidate for Fellowship

Name of Candidate

Report Requested of

University of Michigan, Ann Arbor

The above named candidate has applied to the fund for a fellowship and has given your name as a reference. A statement of the candidate's plan of work is attached. Please return it with your statement.

We shall appreciate a frank statement of your opinion of this applicant's abilities and personal characteristics, and an appraisal of his plan of work. An early reply to this inquiry will be of great assistance in allowing the Fellowship Committee sufficient time for an adequate review of the large number of candidates who apply for grants.

Your reply will be held in strictest confidence.

Director for Fellowships

REPORT

Is the candidate free from personality handicaps which would make it difficult to obtain and hold a position giving him opportunity to utilize his abilities?

Yes

Signed

Carl L. Hubbs

Position or Title

Curator of Fishes; Assoc. Prof. of Zoology

Address

Division of Fishes
Museum of Zoology
University of Michigan

Date

Jan. 19, 1938

(Please return to Raymond Paty, Director for Fellowships, Julius Rosenwald Fund, 4901 Ellis Avenue, Chicago, Illinois. Addressed, stamped envelope is enclosed.)

UNIVERSITY

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

INDIANAPOLIS

Administrative Officer
V. M. Simmons

Board

Governor M. Clifford Townsend
Lieut.-Gov. Henry F. Schricker
Virgil M. Simmons
Dick Heller
Earl Crawford
Thurman A. Gottschalk
George H. Newbauer

January 21, 1938

Julius Rosenwald Fund
4901 Ellis Avenue
Chicago, Illinois

Gentlemen: Attention: Mr. Raymond Paty, Director of Fellowships

omit I should like to make the following statement concerning Mr. John D. Black and his application for a fellowship under your fund:

We have known Mr. Black in Indiana for three years. He worked with us for three summers and accomplished a good foundation on which we hope to have future studies of minnows. Our original purpose was to find a minnow, possibly the one referred to by Mr. Black as the *Notropis Volucellus Volucellus*, that could be cultivated in a pond as food for young black bass. Since his studies were begun, many new lakes have been constructed and we probably will try to extend the range of this fish to these lakes as a forage fish for bass.

One point that impressed us in Mr. Black's statement is his feeling that the work can be done in one or two years. We have found that most of this whole field is unexplored in detail, and we believe there is research on the minnows that would require many years; but we do believe, from the good work Mr. Black has done for us, that a year or two years with you would prove a great and enlightening work for the field of natural science. There may be better men to assign to this work, but we could not name such a person. We are satisfied with what Mr. Black has done for us and with us.

Referring to the paper on the little fish he studied especially in Indiana, we intend that this shall be published. It involves facts that are important to us in bass culture.

Unfortunately, Mr. Black worked for us only during the summer. This made it impossible for him to get the early spring and fall and winter data that he should have. We do not understand your program, but if he could be assigned to Indiana to make a year-around study, we should be well pleased. Mr. Black has laid the foundation in a new field and it would, of course, be a pleasing thing to us to have it continued in Indiana and on that Indiana foundation of fact.

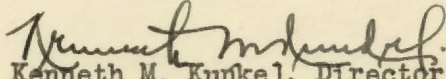
Regarding a complete classification of all the fishes of Arkansas, we cannot, of course, speak for that state. It is a southern state, whereas Indiana is both northern and southern and contains both the north and the south in its fish life. In Indiana, however, we doubt very seriously that a complete classification alone, and aside from detailed studies, could be made in less than five or ten years. This could be greatly hastened, of course, by using more men, as Mr. Black seems to have in mind. We might add that a complete classification of all fishes probably will bring to light many new facts and possibly some new species, and again we speak

Page #2- Julius Rosenwald Fund

from our knowledge of Indiana and not with reference to any other state.

As for Mr. Black, personally, he is patient, a hard worker, conscientious and accurate, and very sincerely interested in aquatic biology and especially in fishes.

Yours very truly


Kenneth M. Kunkel, Director
Division of Fish and Game

KMK:EZ

P

a

JULIUS ROSENWALD FUND

4901 ELLIS AVENUE

CHICAGO

Confidential Report on Candidate for Fellowship

Name of Candidate Mr. John D. Black

Report Requested of Mr. S. C. Dellinger, Department of Zoology, University of Arkansas
Fayetteville, Arkansas

The above named candidate has applied to this Fund for a fellowship and has given your name as a reference. A statement of the candidate's plan of work is attached. Please return it with your statement.

We shall appreciate a frank statement of your opinion of this applicant's abilities and personal characteristics, and an appraisal of his plan of work. An early reply to this inquiry will be of great assistance in allowing the Fellowship Committee sufficient time for an adequate review of the large number of candidates who apply for grants.

Your reply will be held in strictest confidence.

Raymond Paty
Director for Fellowships

REPORT

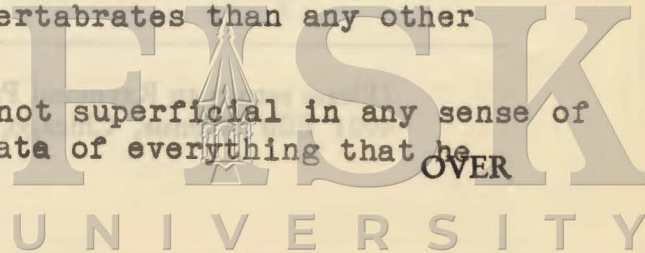
My Dear Mr. Paty:

omit I have known Mr. John D. Black for the past 17 years. He does not have any mental or physical abnormalities that would handicap him in his proposed studies on the life histories of certain minnows in Arkansas.

Mr. Black is an unusually fine man; congenial and easy to work with. It is not quite certain whether we will have the funds for him to continue with us next year but I am making every effort possible to retain him.

He has the research type of approach to all of his work. In this day of experimental and laboratory type of zoology, it is quite refreshing to meet with an individual like Mr. Black who actually knows the animals in their native habitat. I believe that he knows more about the Arkansas vertebrates than any other individual in the State.

Mr. Black's knowledge is not superficial in any sense of the word. He keeps very accurate data of everything that he



collects.

The Game and Fish Commission is very much interested in his proposed work. Arkansas has the largest fish hatchery in the world, unfortunately, however, we have not adequately solved the problem of feeding our fingerlings and brood stock.. Mr. Black's work should help us immensely in meeting this problem. If tthe Commission had sufficient funds at their disposal I feel sure we would like to appoint him to attack this minnow problem for them.

Mr. Black is not only a well trained zoologist, he is a very unusual student in other branches, being awarded the Phi Beta Kappa at Kansas. The recommendations that I received from histeachers at that institution are to the effect that he was the best man in his class.

With his interest and ability I feel certain that he will do a good piece of research work is he is granted the fellowship. It seems to be a very happy combination. He is well qualified to take the work and we have an abundance of the raw material for him to study.

If I can be of any further service to you in answering any questions you may wish to ask in regard to the applicant, I should be very glad to have you write me.

Yours very truly,

S.C. Dellinger

S. C. Dellinger

Prof. Zoology, and

Member of the Arkansas Game and Fish Commission.

Is the candidate free from personality handicaps which would make it difficult to obtain and hold a position giving him opportunity to utilize his abilities?

Signed *S.C. Dellinger*

Position or Title *Professor of Zoology*

Address *Fayetteville, Ark*

Date *1/21/38*

(Please return to Raymond Paty, Director for Fellowships, Julius Rosenwald Fund, 4901 Ellis Avenue, Chicago, Illinois. Addressed, stamped envelope is enclosed.)

FISK
UNIVERSITY

P a

JULIUS ROSENWALD FUND

4901 ELLIS AVENUE

CHICAGO

Confidential Report on Candidate for Fellowship

Name of Candidate Mr. John D. Black

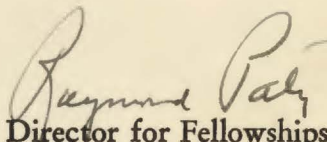
Report Requested of Dr. A. I. Ortenburger, Professor of Zoology

University Oklahoma, Norman

The above named candidate has applied to this Fund for a fellowship and has given your name as a reference. A statement of the candidate's plan of work is attached. Please return it with your statement.

We shall appreciate a frank statement of your opinion of this applicant's abilities and personal characteristics, and an appraisal of his plan of work. An early reply to this inquiry will be of great assistance in allowing the Fellowship Committee sufficient time for an adequate review of the large number of candidates who apply for grants.

Your reply will be held in strictest confidence.


Director for Fellowships

REPORT

~~I am very glad to write to you for Mr. John Black.~~ I have known him for the past few summers as a research student at Indiana University Biological Station, where I have taught the last six summers. He is a serious-minded chap who does good work and is really interested in research. I think that there can be no question concerning his ability. He has the proper type of mind to carry on a program leading to definite results. He has been a teaching assistant at Indiana University, and this year is an instructor at the University of Arkansas. I know him well and do not hesitate to recommend him to you for serious consideration. He is young, married and has one child. I find him a pleasing personality, serious but with a real sense of humor. He knows his field well and I think the problem he has outlined a good and proper one for him to attack. I am happy to recommend him to you.

Yours,


FISK
OVER
UNIVERSITY

JULIUS ROSENWALD FUND
4901 ELLIS AVENUE
CHICAGO

Confidential Report on Candidate for Fellowship

Name of Candidate _____
Report Requested of _____
University, College, or _____

The above named candidate has applied to this Fund for a fellowship and has given your name as a reference. A statement of the candidate's plan of work is attached. Please return it with your statement.

We shall appreciate a frank statement of your opinion of the applicant's abilities and personality, and an appraisal of his plan of work. An early reply to this inquiry will be of great assistance in allowing the Fellowship Committee sufficient time for an adequate review of the large number of candidates who apply for grants.

Your reply will be held in strictest confidence.

Director for Fellowships

REPORT

Is the candidate free from personality handicaps which would make it difficult to obtain and hold a position giving him opportunity to utilize his abilities?

yes

Signed _____

Position or Title _____

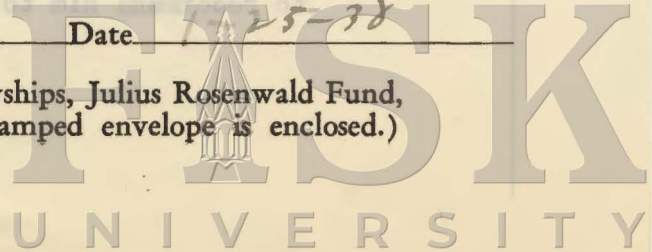
Address _____

Norman Okla

Date 7-25-35

(Please return to Raymond Paty, Director for Fellowships, Julius Rosenwald Fund, 4901 Ellis Avenue, Chicago, Illinois. Addressed, stamped envelope is enclosed.)

OVER



JULIUS ROSENWALD FUND

4901 ELLIS AVENUE

CHICAGO

MIT

Confidential Report on Candidate for Fellowship

Name of Candidate Mr. John David Black

Report Requested of Dr. W. R. Taylor

Department of Botany

University of Michigan

The above-named candidate has applied to this Fund for a fellowship and has given your name as a reference. The candidate's plan of work is attached. Please return it with your statement.

We shall appreciate your frank opinion of this applicant's abilities and personal characteristics, and an appraisal of his plan of work. *An early reply to this inquiry will be of great assistance in allowing the Fellowship Committee sufficient time for an adequate review of the large number of candidates who apply for grants.*

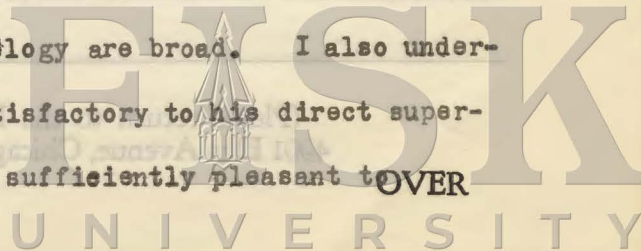
Your reply will be held in strictest confidence.

George M. Reynolds
Director for Fellowships

REPORT

I have had one personal talk with Mr. Black, now some months ago, and have sat on his preliminary doctorate examining committee. Otherwise I have had no opportunity to judge him. I am in no way familiar directly with fisheries problems, although I do have some familiarity with the plants on which they directly or indirectly feed and the conditions under which they grow. These conditions do not qualify me to give a very detailed report on Mr. Black's application.

I would judge that Mr. Black is thoroughly competent and a very hard worker. I understand that his interests in zoology are broad. I also understand that his work in fish studies is quite satisfactory to his direct supervisor. I should judge that his personality is sufficiently pleasant to



enable him to hold an academic position, or a position in government service.

4901 ELLIS AVENUE
CHICAGO

Confidential Report on Candidate for Fellowship

Name of Candidate

Report Requested of

Department of Botany

University of Michigan

The above named candidate has applied to this Fund for a fellowship and has given your name as a reference. The candidate's plan of work is attached. Please return it with your statement.

We shall appreciate your frank opinion of this applicant's abilities and personal characteristics and an appraisal of his plan of work. An early reply to this inquiry will be of great assistance in allowing the Fellowship Committee sufficient time for an adequate review of the large number of candidates who apply for grants.

Your reply will be held in strict confidence.

REPORT

Is the candidate free from personality handicaps which would make it difficult to obtain and hold a position giving him opportunity to utilize his abilities?

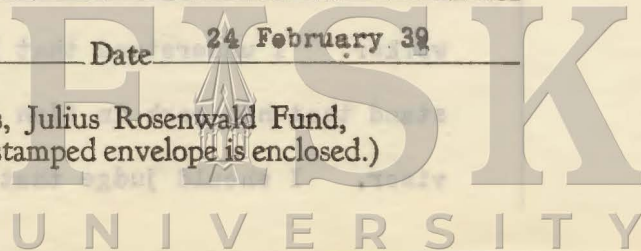
Signed Wm Randolph Taylor Wm Randolph Taylor

Position or Title Professor of Botany and Curator of Algae in the Museum

Address University of Michigan Ann Arbor Michigan

Date 24 February 39

(Please return to the Director for Fellowships, Julius Rosenwald Fund, 4901 Ellis Avenue, Chicago, Illinois. Addressed, stamped envelope is enclosed.)



JULIUS ROSENWALD FUND

4901 ELLIS AVENUE

CHICAGO

Confidential Report on Candidate for Fellowship

Name of Candidate Mr. John David Black

Report Requested of Dr. Paul Welch

Department of Zoology

University of Michigan

The above-named candidate has applied to this Fund for a fellowship and has given your name as a reference. The candidate's plan of work is attached. Please return it with your statement.

We shall appreciate your frank opinion of this applicant's abilities and personal characteristics, and an appraisal of his plan of work. *An early reply to this inquiry will be of great assistance in allowing the Fellowship Committee sufficient time for an adequate review of the large number of candidates who apply for grants.*

Your reply will be held in strictest confidence.

George M. Reynolds
Director for Fellowships

REPORT

Mr. John David Black, now doing graduate work in this University, impresses me as being a very substantial and mature type of student, very seriously interested in his research program and the successful completion of graduate work leading to the doctorate. My contact with him has not been intimate, but I see him from time to time and have had several professional discussions with him. My impression is that he is worthy of an opportunity to pursue the line of work which he has already apparently initiated in a very satisfactory form. He seems to be discriminating in his attitude, seems to have the necessary initiative and originality to make research go successfully and to have the consistent urge to keep continually at his work. I am favorably impressed with him and believe that he is worthy of your serious consideration in connection with one of your fellowships.

I have examined the progress report which you transmitted and am disposed to feel that not only have substantial results been obtained, but his plan of work is well constructed and bids fair to lead to a successful conclusion. I see nothing in his report which indicates a weakness or a serious opportunity for criticism.

OVER

UNIVERSITY

JULIUS ROSENWALD FUND
4901 ELLIS AVENUE
CHICAGO

Confidential Report on Candidate for Fellowship

Name of Candidate Dr. John David Smith

Report Requested of Dr. Paul Welch

Department of Zoology

University of Michigan

The above-named candidate has applied to this Fund for a fellowship and has given your name as a reference. The candidate's plan of work is attached. Please return it with your statement.

We shall appreciate your frank opinion of this applicant's abilities and personal characteristics, and an appraisal of his plan of work. An early reply to this inquiry will be of great assistance in allowing the Fellowship Committee sufficient time for an adequate review of the large number of candidates who apply for grants.

Your reply will be held in strict confidence.

Paul S. Welch
Director for Fellowships

REPORT

Is the candidate free from personality handicaps which would make it difficult to obtain and hold a position giving him opportunity to utilize his abilities? Yes

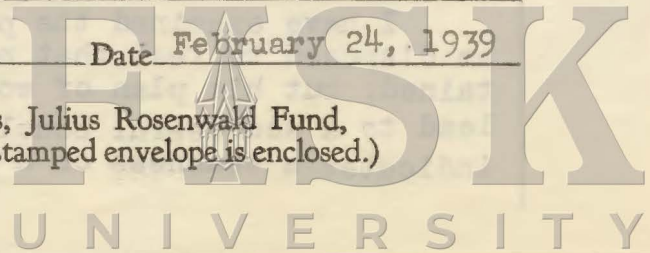
Signed *Paul S. Welch*

Position or Title Professor of Zoology

Address Department of Zoology, University of Michigan, Ann Arbor, Mich.

Date February 24, 1939

(Please return to the Director for Fellowships, Julius Rosenwald Fund, 4901 Ellis Avenue, Chicago, Illinois. Addressed, stamped envelope is enclosed.)



JULIUS ROSENWALD FUND

4901 ELLIS AVENUE

CHICAGO

Confidential Report on Candidate for Fellowship

Name of Candidate Mr. John David Black

Report Requested of Dr. L. G. Stuart

Museum of Zoology

University of Michigan

The above-named candidate has applied to this Fund for a fellowship and has given your name as a reference. The candidate's plan of work is attached. Please return it with your statement.

We shall appreciate your frank opinion of this applicant's abilities and personal characteristics, and an appraisal of his plan of work. *An early reply to this inquiry will be of great assistance in allowing the Fellowship Committee sufficient time for an adequate review of the large number of candidates who apply for grants.*

Your reply will be held in strictest confidence.

George M. Reynolds
Director for Fellowships

REPORT

In awarding any fellowship there are two separate points which must be considered by the fellowship committee; first, the worthiness of the project and, second, the ability of the applicant chosen to execute that project. In recommending Mr. John D. Black to the committee of the Julius Rosenwald Fund, I have borne both of these points in mind.

~~With reference to the project itself,~~ there is little question as to its scientific significance. The geographic diversity of the State of Arkansas varying from the oscillating Coastal Plain to the ancient and very stable Ozarkian Upland cannot fail to produce material, problems, and solutions of extreme interest not only to the ichthyologist but to those in other zoological fields of endeavor. This diversity of conditions and their inferences become of increasing importance when viewed in the light of our paucity of our knowledge relating to the zoology of Arkansas. Nor are the promises which this rich and virgin area offer to be independently considered. It is indicated from studies in surrounding regions, that this area has been an important center

of dispersal of the North American fauna. As a result, any attempt to throw light on the zoological position and relationships of this region, must certainly receive the most careful consideration of any committee designated to appropriate funds for such a study. I can not, therefore, be overenthusiastic in recommending to that committee the project outlined by Mr. Black.

As to the capabilities of Mr. Black in executing this project, my personal contacts with him leave little doubt but that he is excellently qualified to complete the investigations. I have no hesitation in stating that the applicant, in his approach to and analysis of problems, is one of the most mature students I have ever been associated with. From his report it should be evident to the committee that his studies here at the University have all been carefully planned and outlined in such a way as to prepare him for investigating such problems as he has outlined. His maturity of thought can not be stressed too strongly, for I feel that it will be through this medium that he will be able to complete successfully the investigations which he has initiated. I am convinced that when the problem has been completed, it will not be the thesis of the average graduate student, but, rather, a careful and complete study worthy of a mature investigator.

Thus, both from the standpoint of the problem itself and the applicant, I have no hesitation in recommending Mr. Black's project, and I strongly urge that the committee grant Mr. Black financial aid in the form of a fellowship.

Is the candidate free from personality handicaps which would make it difficult to obtain and hold a position giving him opportunity to utilize his abilities?

Mr. Black's character and personality will certainly always be an asset to him in retaining any position to which he may be called.

Signed

J. C. Stuart

Position or Title Research Ass., Museum of Zoology and Instructor in Zoology

Address University Museums, University of Michigan

Ann Arbor, Michigan

Date 2/24/39

(Please return to the Director for Fellowships, Julius Rosenwald Fund, 4901 Ellis Avenue, Chicago, Illinois. Addressed, stamped envelope is enclosed.)

REPORT

UNIVERSITY

JULIUS ROSENWALD FUND

4901 ELLIS AVENUE

CHICAGO

Confidential Report on Candidate for Fellowship

Name of Candidate Mr. John David Black

Report Requested of Dr. Carl L. Hubbs

Museum of Zoology

University of Michigan

The above-named candidate has applied to this Fund for a fellowship and has given your name as a reference. The candidate's plan of work is attached. Please return it with your statement.

We shall appreciate your frank opinion of this applicant's abilities and personal characteristics, and an appraisal of his plan of work. *An early reply to this inquiry will be of great assistance in allowing the Fellowship Committee sufficient time for an adequate review of the large number of candidates who apply for grants.*

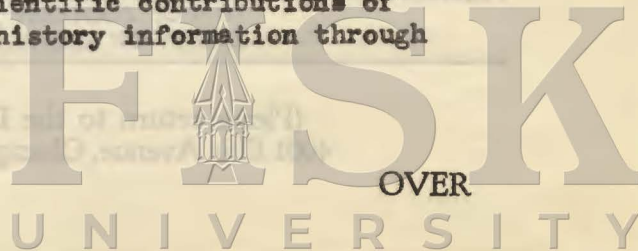
Your reply will be held in strictest confidence.

George M. Reynolds
Director for Fellowships

REPORT

John David Black has developed very gratifyingly during the period of his residence at the University of Michigan. He came with a very keen interest in the fish life of Arkansas and has sharpened that interest and put it to good use. He has developed a real competence in the identification of the fishes of Arkansas and a sound understanding of the biological problems involved.

Mr. Black's decision to change the subject of his studies under the Rosenwald Fellowship met with our hearty approval and we are very happy that the authorities of the Fund agreed to this change. We feel that Mr. Black is heading toward a very creditable fulfilment of our requirements for the doctorate degree and that his thesis will be a noteworthy contribution to ichthyology. Perhaps of more importance from the standpoint of the Fellowship is the circumstance that his work will adequately prepare him for continued researches after his return to the South. If he is favored with a continued appointment at the University of Arkansas, which is anticipated, we can look forward to a long period of active and profitable work leading to scientific contributions of high merit and also to a dissemination of natural history information through Arkansas and adjacent states.



The nature of Mr. Black's researches together with our rather rigid requirements for the doctorate call for another year's work. It is, therefore, very important that he be given the opportunity to continue under the fellowship for a second year. It might be more nearly ideal to have the extension made for one year but to have it apply to the second semester of each year for two years. I notice that Mr. Black's plan is not written in those terms but he has mentioned his interest in such an arrangement, if it would be agreeable to the Fellowship Fund as well as to the University of Arkansas. I feel sure that his work could be completed in the one year of full-time activity, so this arrangement would be satisfactory if any difficulty should arise in making the grant applicable to halves of two years.

I have personally been very much pleased, indeed, with Mr. Black's progress and ability and do not hesitate to recommend his renewed application to your consideration.

The above-named candidate has applied to this Fund for a fellowship and has given you a statement of his plan of work. The candidate's plan of work is attached. Please return it with your statement.

We shall appreciate your frank opinion of this applicant's abilities and personal characteristics and an appraisal of his plan of work. An early reply in this matter will be of great assistance in allowing the Fellowship Committee to select for an adequate number of the large number of candidates who apply for grants.

Your reply will be held in strict confidence.

Is the candidate free from personality handicaps which would make it difficult to obtain and hold a position giving him opportunity to utilize his abilities?

Yes

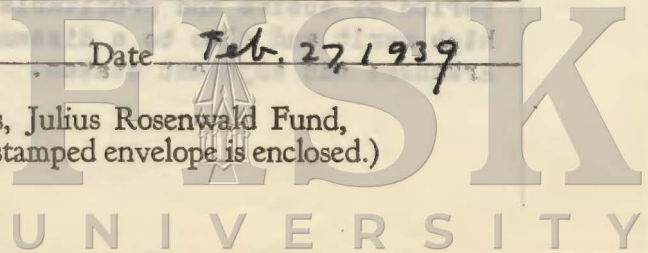
Signed Gail L. Hubbs

Position or Title Associate Professor of Zoology & Curator of Fishes

Address SECTION OF FISHES
MUSEUM OF ZOOLOGY
UNIVERSITY OF MICHIGAN

Date Feb. 27, 1939

(Please return to the Director for Fellowships, Julius Rosenwald Fund, 4901 Ellis Avenue, Chicago, Illinois. Addressed, stamped envelope is enclosed.)



JULIUS ROSENWALD FUND

4901 ELLIS AVENUE

CHICAGO

Confidential Report on Candidate for Fellowship

Name of Candidate Mr. John David Black

Report Requested of Dr. Lee R. Dice

Laboratory of Vertebrate Genetics

University of Michigan

The above-named candidate has applied to this Fund for a fellowship and has given your name as a reference. The candidate's plan of work is attached. Please return it with your statement.

We shall appreciate your frank opinion of this applicant's abilities and personal characteristics, and an appraisal of his plan of work. *An early reply to this inquiry will be of great assistance in allowing the Fellowship Committee sufficient time for an adequate review of the large number of candidates who apply for grants.*

Your reply will be held in strictest confidence.

George M. Reynolds
Director for Fellowships

REPORT

I have served as a member of Mr. Black's doctoral committee and have been greatly impressed by his intense interest in research and by the persistence with which he works. Furthermore I judge him to have much ability as an investigator.

My acquaintance with him is too brief to give a fully reliable judgement of his character and personality. However, I have the impression that he is very serious-minded and perhaps a bit weak in imagination. His serious point of view probably interferes slightly in making friends.

The program for the conduct of his field and laboratory research seems to me excellent, and there is no question but that an additional year at the University in association with Dr. Carl L. Hubbs will add greatly to his training in biology and to the value of his research.

TSK
UNIVERSITY
OVER

JULIUS ROSENWALD FUND
4901 ELLIS AVENUE
CHICAGO

Condensed Report on Candidate for Fellowship

Name of Candidate Mr. John David Slack

Report Requested of Dr. Lee R. Dice

Laboratory of Vertebrate Genetics

University of Michigan

The above-named candidate has applied to this Fund for a fellowship and has given your name as a reference. The candidate's plan of work is attached. Please return it with your statement.

We shall appreciate your frank opinion of this applicant's abilities and personal characteristics, and an appraisal of his plan of work. An early reply to this inquiry will be of great assistance in allowing the Fellowship Committee sufficient time for an adequate review of the large number of candidates who apply for grants.

Your reply will be held in strictest confidence.

Lee R. Dice
Director for Fellowships

REPORT

I have acted as a member of Mr. Slack's doctoral committee and have been

Is the candidate free from personality handicaps which would make it difficult to obtain and hold a position giving him opportunity to utilize his abilities?

Yes, so far as I know.

Signed Lee R. Dice

Position or Title Director, Laboratory of Vertebrate Genetics; Associate Curator of Mammals in the Museum of Zoology, and Associate Professor of Zoology.

Address University of Michigan, Ann Arbor, Michigan

Date February 25, 1939.

(Please return to the Director for Fellowships, Julius Rosenwald Fund, 4901 Ellis Avenue, Chicago, Illinois. Addressed, stamped envelope is enclosed.)

F I S K
UNIVERSITY

JULIUS ROSENWALD FUND

4901 ELLIS AVENUE

CHICAGO

Confidential Report on Candidate for Fellowship

Name of Candidate Mr. John David Black
Report Requested of Dr. E. C. Case
Museum of Paleontology
University of Michigan

The above-named candidate has applied to this Fund for a fellowship and has given your name as a reference. The candidate's plan of work is attached. Please return it with your statement.

We shall appreciate your frank opinion of this applicant's abilities and personal characteristics, and an appraisal of his plan of work. *An early reply to this inquiry will be of great assistance in allowing the Fellowship Committee sufficient time for an adequate review of the large number of candidates who apply for grants.*

Your reply will be held in strictest confidence.

George M. Reynolds
Director for Fellowships

REPORT

Mr. Black was with me for one semester in a course in vertebrate paleontology, which is conducted as giving instruction in the developmental morphology of the vertebrate skeleton. He was industrious and intelligent both in assigned work and in discussions. I placed him as best in a class of 10 graduate students. He is mature and knows what he wants. I believe that he would ~~make~~ *make* good use of any help given him.



JULIUS ROSENWALD FUND

4901 ELLIS AVENUE

CHICAGO

Confidential Report on Candidate for Fellowship

Name of Candidate _____

Report Requested of _____

Department of _____

University of _____

The above-named candidate has applied to this Fund for a fellowship and has given your name as a reference. The candidate's plan of work is attached. Please return it with your statement.

We shall appreciate your frank opinion of this applicant's abilities and personal characteristics, and an appraisal of his plan of work. An early reply to this inquiry will be of great assistance in allowing the Fellowship Committee sufficient time for an adequate review of the large number of candidates who apply for grants.

Your reply will be held in strictest confidence.

Director for Fellowships

REPORT

Is the candidate free from personality handicaps which would make it difficult to obtain and hold a position giving him opportunity to utilize his abilities?

Yes, so far as I know.

Signed _____

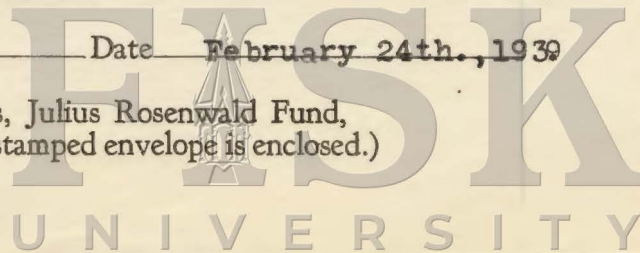


Position or Title Professor and Chairman department of Geology

Address University Museum, Ann Arbor, Mich..

Date February 24th., 1939

(Please return to the Director for Fellowships, Julius Rosenwald Fund, 4901 Ellis Avenue, Chicago, Illinois. Addressed, stamped envelope is enclosed.)



REPORT OF PROGRESS UNDER PRESENT GRANT, ~~AND PLAN FOR~~
COMING YEAR.

Progress Under Grant, from June 15, 1938 to Jan. 17, 1939.

1. Field Work.

Collections were made at some 100 stations, totalling 123 collections, comprising in all approximately 25,000 fishes of more than 100 species and subspecies. The exact number of individuals and species will not be known until the material has been cataloged, later in the year. The field work covered all parts of the state, except the southeastern quarter, and the collection is quite representative, being especially good for the northwestern portion of the state. In spite of the fact that it was built from the life history viewpoint it is by far the largest and best taxonomically as well as ecologically ever to come out of the state.

Other than obtaining actual specimens the field work has been of much value in acquainting me with the habitats of these various species and something of their way of living; data that will be of future use in life history studies as well as immediately in the consideration of distributional problems which are so intimately connected with the manner of life of the individual fish.

One important discovery of interest to a conservation program has been that of finding rainbow trout wild in one stream and finding other streams suitable for trout in the Arkansas Ozarks.

Other results of the field work will be noted in the report of laboratory work. Not to be overlooked in the present connection, however, is the fact that the field work has indicated the critical areas within the state and the best methods and gear to employ in securing the key specimens needed for a more complete understanding of the far-reaching problems encountered.

2. Work in residence at the University of Michigan.

Field work was terminated August 25, 1938; study on the collection here began August 28, 1938. The month before school started was spent exclusively in sorting out the collections and preparing them for further study.

Credentials for entrance into the graduate school were accepted September 21, and transfer of all credits from the University of Kansas and University of Indiana accepted. Credentials indicating a satisfactory reading knowledge of German and French were filed and accepted.

The remainder of the first semester has been spent in sorting and checking the huge collection brought in, and in acquainting myself with the different species. Some significant local variations have been discovered and studied that indicate important bearings on the problems of fish distribution, evolution and life histories in general, and of the south in particular. We have obtained strong indications of stream piracy by and from the White River which will be of significance in an understanding of the post-glacial distribution of many animals, especially the fishes and molluscs, and of no little interest to geologists.

Five forms absolutely new to science have been discovered in the collection to date, and three or four more can be ~~fully~~ considered distinct on the basis of this collection which has supplied the necessary material for a clear understanding of the species, and will be described in the course of the study. Much detailed work remains to be done on most of these forms, and additional material is needed from the previously mentioned "critical areas."

The courses have all been completed creditably and have added much to my better understanding of these problems in particular and zoology in general. This opportunity should be taken to explain the course in Vertebrate Paleontology, under Dr. Case. This is more a course in the morphology of the lower vertebrates, with especially emphasis on the morphology and evolution of the fishes, than it is a course in strict paleontology, and was taken upon the recommendation of Dr. Hubbs, who felt that the training there, and the contact with Dr. Case would be of the utmost value. The grades for this first semester's work will not be reported in time to be included in this application, but there appears no reason to expect other than A's except under Dr. Case, who in 40 years has not been known to give better than a B in this particular course, the most difficult in the university.

The preliminary examination for the doctorate was passed Dec. 16, 1938.

A large collection from Missouri, just across the Arkansas line and within the White River drainage, is now being sorted since it is of considerable importance to have a

good understanding of these fishes in my problem.

I should add that the Arkansas collection made this summer has been especially difficult to handle since it includes every major drainage in the state, except the Bayou Bartholomew, and is abundantly represented by immature stages. Since Arkansas has tributaries from more drainage systems than any state in the south, with the exception of Texas, has the most diversified river habitats known in this country, and appears to be one of the major dispersal centers for the minnows and darters, the range of variation in young and adults is without parallel in our fresh water fishes.

Plan of Future Work.

2. Spring semester (under present grant).

Course work will include physiography, animal geography, proseminar in mammals, in addition to research.

The physiography is taken upon the recommendation of Dr. Case, and the committee, as a substitute for the second semester of paleontology, since Dr. Case feels that I have obtained the fundamental morphology of importance to my problem, and the geological implications of the material here (the Arkansas fishes) makes it desirable that I have a sound understanding of physiography before reentering the field. To this end I have done special reading in physical and historical geology this semester.

The course in animal geography is really animal ecology and is taken to better prepare me for the eventual life history studies.

The proseminar in mammals seems to be the best

available this semester (one is compulsory every semester) and will fit in with my program of general study of the distribution, taxonomy, ecology and conservation of the Arkansas vertebrates.

The research will be a continuation of the work of the past semester, with most of the time being spent in the elaboration of the description of new forms and statistical studies of variations, especially in the stone roller, where we have a subspecies which appears to be a glacial relict, heretofore known only in Wisconsin and northern Iowa, ranging alongside its southern relative, and in the various darters which promise most of the answers to the stream capture problems previously mentioned.

2. Program under renewal for 1939-40.

In the event that the renewal of the grant is made it is proposed to return to the field as quickly as possible at the end of the school term; not later than June 15th, and to immediately make special collections in several streams in north Arkansas where new forms were discovered and where additional material is badly needed, especially of breeding individuals. Then special collections will be made in southwestern Arkansas, near Hope, where we appear to have a new species of darter which possibly will be the smallest vertebrate in North America, and where other interesting and little known species occur. Following this some time will be spent working the Bayou Bartholomew from Pine Bluff to the Louisiana line, since this river has never been studied and so far as we can ascertain no collections taken from it. It promises much. An attempt is to be made, and should be

successful, to obtain the cooperation of the Arkansas Game and Fish Commission to supply their fish boat for a week or more on the lower White, Arkansas and possibly the Mississippi rivers, collecting large water fishes, the one weakest point in our knowledge of North American fresh water fishes.

These collections will be brought here and subjected to the same critical analysis given the present collection.

The school year itself will find my entire time devoted to research, except for one course in biological statistics, and the proseminars.

With this additional material and time I can complete the work with a thesis on the "Distribution of Arkansas Fishes" based on sufficient material and critical study to make it one of the most outstanding contributions to southern biology.

The material gathered on life histories, which will be considerable, will be incorporated in later reports upon my return to the University of Arkansas. One significant phase of that, *the* growth of fishes, will automatically be covered to a considerable extent in the detailed study for the distribution paper, in addition to the field data, and the accumulation of material for scale and food studies, which will be made available from this collection upon my request.

It is further proposed to study, during the year, the Arkansas fishes in the Field Museum of Natural History-- the old Weck collection--- and the small amount of Arkansas material in the National Museum. These two collections, taken with the material here and that which I have secured, represents almost every Arkansas specimen known to science, including the types of some 20 to 30 species and subspecies.

Candidate John David Black

Special Field Zoology

Part-time Instructor in Zoology, University of Arkansas
Fayetteville, Arkansas

Plan of Work

Field studies in the summer and laboratory studies in the winter on the life histories of certain forage fishes common in the streams of Arkansas.

Wishes to work for Ph.D. at the University of Michigan, beginning June, 1938, for the period of one to two years. Can return to present position.

Digest of Application

Born July, 1908, Winslow, Arkansas. Married, one child.

A. B. from the University of Kansas, 1935. M.A. from Indiana University, 1937. Phi Beta Kappa, Sigma Xi.

Instructor in Zoology, University of Arkansas, Fayetteville, Arkansas, 1937-38, \$1200. Fisheries Research, Indiana Game & Fish Commission, summers, 1935-36, 37, \$200-\$575

Publications: "Mammals of Kansas" a 160 page bulletin now in press. Also preliminary report on Life History of *Notropis v. volucellus* now in editor's hands. "A Winter Robin Roost in Arkansas". "Birds of the Winslow, Arkansas, Region". "A New Race of *Peromyscus maniculatus* from Arkansas". "A New Woodchuck From Kansas". "Mammals of Northwestern Arkansas".

Undergraduate Museum Fellowship, University of Kansas, 1931-35, \$420 annually. Graduate assistant in zoology, Indiana University, 1935-37, \$600 annually.

References

Budget Summary

S.C. Dellinger, Dept. of Zoology, University of
Arkansas
Kenneth Kunkle, Director, Game & Fish Commission,
Indiana
Dr. A.I. Ortenburger, Prof. Zoology, University of
Dr. Carl. L. Hubbs, Curator, U. of Mich./ Oklahoma
Committee Notes

Total amount needed	\$1737
From applicant	<u>200</u>
From Fund	\$1537
Granted	



FISK
UNIVERSITY

Studies on the life histories of ~~certain minnows~~ of the genus Notropis and relatives, especially those species that live in abundance in the streams of Arkansas.

This work will include field collections and field studies in Arkansas throughout the coming summer. This will provide the necessary background for subsequent laboratory studies. Habitat, numbers, reproduction, natural enemies and desirability as food for game fishes will be ascertained in the field.

Laboratory studies on this material will show quantity and nature of food, parasites and their effectiveness, number of eggs produced, rate of growth, age attained, and abundance of relative age groups.

It may be found necessary to return to the field a second summer for additional data, but this is improbable.

Startlingly little is known at present about this problem, and almost nothing about the southern species. It is an important aspect of our program for the conservation of wild life, since these minnows are the chief source of food for the game fishes, and are the most important link in the chain of aquatic life beginning in the minute invertebrates and plants and culminating in our game fish.

The use of these minnows as food in hatcheries is a second important aspect, and an effort has been made, and will continue to be made, to find means whereby certain of these minnows can effectively be reared in hatcheries for hatchery use. This would effect considerable savings to the state hatcheries of the section, as well as further aid in the conservation of our natural wild life through making it unnecessary to destroy wild minnows for this food; a most significant item under present conditions.

The data is also of great importance in stocking new artificial lakes, such as are now being built in great numbers throughout the country.

As an incidental part of this program the collections secured will make it possible for myself and others to work out the taxonomy and distribution of the minnows and other fishes of Arkansas and thereby place the study of our aquatic life on a sound scientific basis for the future use of other students of vertebrate zoology in the south.

After completion of the major problem this data could be, as is at present planned, incorporated into a bulletin type of publication on the Fishes of Arkansas, and distributed, through the Arkansas Game and Fish Commission, to the high schools and sportsmen of the state, thereby serving to increase greatly the interest in wild life and its preservation here. Public education in conservation is certainly our most serious zoological problem of the present, and this is especially true in the south.

During my three summers on the Fisheries Research program at Indiana I studied intensively the life history of one of these minnows, Notropis volucellus volucellus Cope. These studies are partially summarized in my Master's thesis, which is now being considered for publication by the Indiana Game and Fish Commission. Additional data and material are now being studied, especially on food, growth and reproduction. Additional data on Notropis whipplii and Ericymba bucatta are at hand and additional material already collected. A large series of fish for my use are now in Dr. Hubbs' care, in addition to those I have here.

Collections and habitat observations of minnows of this vicinity were started last fall, and are being continued.

The study can be completed in not more than two years, and may be brought to a satisfactory state of completeness in one, although a more thorough job could be done if two full years were allowed for the study.

The work will be carried on under the supervision of Dr. Carl L. Hubbs, Curator of Fishes, Museum of Zoology, University of Michigan, Ann Arbor, Michigan, and the school work will be in residence there. It will have the sanction, and cooperation during the field work, of the Arkansas Game and Fish Commission.

It would, in some respects, be preferable to do this work in a southern school, but Dr. Hubbs is so outstanding in this field that the advantages of working with him would far exceed the disadvantages of location.

Preliminary work will almost certainly be published by the Indiana Game and Fish Commission. The Arkansas studies may be published by the same group, by the U.S. Bureau of Fisheries, the Univ. of Michigan publications, Copeia, or the Arkansas Game and Fish Commission. The life history results and the taxonomical-distributional data will be published separately, the first as a purely scientific thesis, the second as a scientifically accurate, but popular, bulletin.

I hope to continue teaching at the University of Arkansas, and indications are that this is a reasonable expectation. My work will include further study on fish life histories, for the dozens of species we have, as well as the enlargement of my work on the mammals of Arkansas, and other Arkansas vertebrates. The field here is almost untouched and offers exceptional opportunities for a life time of useful research and education.

Each of the men listed as references (four) are in a position to present authoritative views upon different aspects of the proposed problem.

THE UNIVERSITY OF KANSAS LAWRENCE, KANSAS

OFFICE OF THE REGISTRAR

Official transcript of the record of JOHN DAVID BLACK

I. ATTENDANCE: Admitted September 15, 1931 to College of Liberal Arts
 Attended 9 semesters X quarters X summer terms
 Graduated June 10, 1935 Degree Bachelor of Arts

II. PRESENT STATUS Graduate of University of Kansas
 _____ withdrew voluntarily and is hereby granted *Honorable Dismissal*.

III. ENTRANCE UNITS: From Winslow, Arkansas High School, 1923:

SUBJECT	UNITS	SUBJECT	UNITS	SUBJECT	UNITS	SUBJECT	UNITS
English.....	4	English History.....	1	Botany.....		Commercial Law.....	
French.....		American History.....	1	Zoology.....		Psychology.....	
German.....		Constitution of U. S.....		Phys. Geography.....	1	Printing.....	
Spanish.....	1	Spain Civics.....	1/2	Music.....		Methods and Mgt.....	
Latin.....	1	American Gov't.....		Man. Training.....		Shorthand.....	
Algebra.....		Economics.....		F. H. Drawing.....		Typewriting.....	
Pl. Geometry.....		Sociology.....		Mech. Drawing.....		Math.....	3
Solid Geometry.....		Physics.....		Domestic Science.....		M. & M. History.....	1
Trigonometry.....		Chemistry.....		Domestic Art.....			
Ancient History.....	1	General Science.....	1	Journalism.....			
World History.....		Physiology.....		Bookkeeping.....			
Early European Hist.....		Biology.....		Com. Arithmetic.....			
Mod. European Hist.....		Agriculture.....	1	Com. Geography.....		Total.....	16 1/2

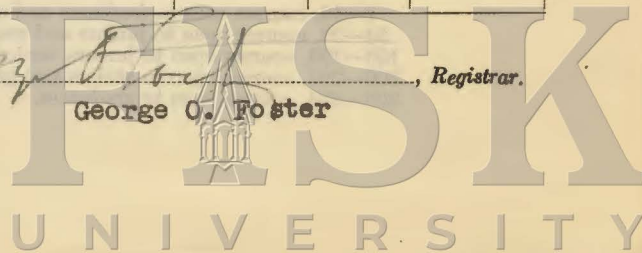
How admitted As a regular student

IV. UNIVERSITY CREDITS:

TERM	DESCRIPTIVE TITLE AND NUMBER OF THE COURSES	SEM. HOURS	GRADE	YEAR
Fall	Rhetoric 2	2	B	1931
	Elementary German 1	5	B	
	Elementary Animal Biology 1	5	A	
	Hygiene 20	-	B	
	Exercise	-	+	
Spring	German Reading and Grammar 2	5	B	1932
	Comparative Anatomy 3	5	A	
	General Psychology 1a	3	B	
	Exercise	-	+	
Correspondence	Rhetoric 1	3	A	8/19/31
Correspondence	Introductory Entomology 1	5	A	9/15/31
HONOR ROLL 1931-32				
Fall	Scientific German 3c	3	A	1932
	Principles of Geography 3	5	A	

January 20, 1938

George O. Foster
 _____, Registrar.
 George O. Foster



EXPLANATION

I. STATUS:

An undergraduate student who withdraws from the University of Kansas is either—

- (a) In good standing; or
 - (b) On probation; or
 - (c) Dropped, for poor scholarship; or
 - (d) Dismissed for misconduct.
- (a) A student *in good standing* is entitled to honorable dismissal in every sense of the word. He is eligible to continue his course in the University of Kansas whenever he may choose to do so. No separate letter of honorable dismissal is issued by this institution.
- (b) In the School of Engineering, a student who fails to complete with grade of "C" or better eight hours of the work in which he is enrolled in any semester, is placed on probation. If, in the following semester, he again fails to complete eight hours of work with a "C" or better, he is dropped from school for the period of a semester. Following that time he may be readmitted *on probation*. A student failing in $\frac{2}{3}$ of the work of a semester may be dropped without a period of probation.

In the School of Law, whenever a student has received a grade of "D" or less in fifty per cent or more of the work taken in any semester and in his last preceding semester, he will be placed on probation but will be suspended from school for one semester at the end of any subsequent semester in which he fails to make a grade of "C" or better in fifty per cent of the work taken.

- (c) In the School of Business, students failing in 35 per cent or more of the work for which they receive grades at the end of the semester will be suspended from the School for the succeeding semester.

Students in the College, the School of Fine Arts, the School of Medicine and the School of Pharmacy, failing in over forty per cent of the work for which they receive grades at the end of the semester are dropped from the University for one semester, and must receive a reinstatement from the dean of the respective school before being permitted to re-register or re-enroll.

- (d) A student is dismissed only for disciplinary reasons as stated in each case. Dismissal may be either permanent or for a limited period, as specified.

II. ENTRANCE:

An admitted student is either:

- (a) A regular student, one who has satisfied in full all the requirements for admission to a course leading to a degree; or
- (b) A special student, one who, being twenty-one years of age and having given evidence of ability to carry one or more branches of study, is permitted by the dean or faculty committee of the respective school to take work without having met the regular entrance requirements. A special student is not a candidate for a degree.
- (c) An advanced standing student, one who is admitted with advanced standing from some other institution, such advanced standing being entirely provisional until the student has completed a year's work satisfactory to the dean of the school concerned. Advanced standing credits may be withdrawn at any time if the student fails to do satisfactory work and are not recorded on the Registrar's permanent record until definitely accepted by the dean of the school in which the student is enrolled.

III. UNIVERSITY CREDITS AND SCHOLARSHIP RATINGS:

A semester hour is the work of a class meeting one hour a week for 18 weeks, or the equivalent in laboratory or shop.

For grading system:

I—90-100
II—80-90
III—70-80

C—Conditional
Nx—Not examined
F—Failure

Grading system (since the fall of 1917):

A—Excellent
B—Very good
C—Good
D—Passing

I—Incomplete
Wd—Withdrawn from class with a passing grade at the time of withdrawal
F—Failure

Graduate School grading system (prior to fall 1928):

A—Excellent
B—Good

C—Passing
D and F—Both Failure

Graduate School grading system (beginning with 1928-29):

A—Excellent
B—Good
S—Satisfactory
(A or B)

C—Credit
D or F—Failure

() credits not transferable from.....School to.....School; or hours not counted toward graduation because of Failure or Incomplete; or because the course was used for entrance credit; or withdrew from the course without finishing it.

"I" or "F" followed by a grade and date indicates work repeated, completed or lapsed into Failure.

IV. COURSE NUMBERS:

Prior to 1928:

- 1—49, courses open to freshmen and sophomores.
- 50—99, courses open to juniors and seniors.
- 100—200, courses open to graduates.

After 1928:

- 1—49, courses open to freshmen and sophomores.
- 50—99, courses open to juniors and seniors.
- 100—199, courses open to juniors, seniors and graduates.
- 200—299, courses open to seniors and graduates.
- 300—399, courses open to graduates.

THE UNIVERSITY OF KANSAS

OFFICE OF THE REGISTRAR

Official Transcript of the Record of JOHN DAVID BLACK

TERM	DESCRIPTIVE TITLE AND NUMBER OF THE COURSES	SEM. HOURS	GRADE	YEAR
Fall 1932	American Government 10	5	the B	4/12/33
	Introduction to Philosophy 10	2	B	
	Exercise	-	+	
Spring	Reporting 1	3	A	1933
	Introduction to the Newspaper 11	2	A	
	Iphigenie and Nathan der Weise 4a	3	A	
	Introductory Entomology 2	5	A	
	Exercise	-	+	
SOPHOMORE HONOR ROLL 1932-33				
Fall	Principles and Style of Proof Reading 87	1	B	1933
	Feature Writing 160	2	A	
	Storm and Stress 157	3	A	
	Comparative Osteology 157	2	A	
	Genetics 172	2	B	
	Human Physiology 50	3	A	
	Elements of Sociology 50	3	A	
Spring	Critical Writing 172	3	A	1934
	Vertebrate Paleontology 156	3	A	
	Lower Vertebrates 182	3	B	
	Faust 150	3	A	
	Cultural Anthropology 171	3	A	
	JUNIOR HONOR ROLL 1933-34			
Fall	Elementary French 1	5	B	1934
	Living Plant 1	5	A	
	Zoological Problems 73	3	A	
	Mammals and Birds 181	3	A	
Spring	Mythology 12	3	A	1935
	Systematic Botany 150	5	A	
	Zoological Problems 73	3	A	
	Old Testament Literature	1	A	
	SENIOR HONORS 1934-35			
Spring	GRADUATE			
	Zoological Conference 374	1	A	1935
	Graduate Seminar 305	2	A	
- - - - -				

January 20, 193 8

AMH

16-5396

10-36-10M

George O. Foster

Registrar.

The logo of the University of Kansas, featuring a stylized building with a tower and the text "UNIVERSITY OF KANSAS" in a large, serif font.

MEMORANDA

Graduated from Winslow, Arkansas, High School, 1923.

The entries on both sides of this
sheet constitute a true copy of the
record of John David Black as a
student of McKean University

Thomas A. Cookson

Registrar

1-13-1938

Record of Mr. Black, John DavidAddress 1041 Vermont, Lawrence, Kansas

Name and Address of Parent or Guardian:

Mrs. Etta Elizabeth Black, 425 N. West St., Fayetteville, Ark.Birth-
Date of 7-2-1906Place of Winslow, Arkansas 9-12-1935Date of Matriculation in
Graduate School

Major Subject

Zoology

DEGREES RECEIVED

A.B., University of Kansas,1935.A.M., Indiana University,11-22-1937.

19

DATE	SUBJECT	Old No. of Course	New No. of Course (1927)	Summer Session Hrs/Grade	First Semester Hrs/Grade	Second Semester Hrs/Grade	DATE	SUBJECT	Old No. of Course	New No. of Course (1927)	Summer Session Hrs/Grade	First Semester Hrs/Grade	Second Semester Hrs/Grade
	<u>1935-36</u>												
9-12	Zoology		120		3 A								
	Zoology		360		6 B+								
	Botany		101b		2 A								
	Botany		101b		3 A								
2-3	Chemistry		101aA			2 A							
	Chemistry		101aB			3 A							
	Zoology		255		2 B+								
	Zoology		360			3 A							
	<u>1936-37</u>												
6-20	Zoology		224	4 A									
9-12	Botany		202		5 A								
	Chemistry		101a		3 A								
	Chemistry		101bB		2 A								
	Zoology		360		6 A	1 A							
2-2	Zoology		260			3 A-							
	Botany		210			2 K							
	Chemistry		203A			2 A							
	Chemistry		203B			3 A							
	<u>1937-38</u>												
6-19	Zoology		360	4 A									
	Zoology		360	4 A									

Grades: (Approximately), A, 86 to 100; B, 80 to 84; C, 70 to 84; D, 60 to 74. (CU), credited on certificate; (X), passed without grade; (E), conditional; (P), failed; (In.), incomplete; (Def.), defered; (W), withdrawn; (WF), withdrawn for failure; (OK), credit passed (10), see transcript report (10). *Courses marked with an asterisk do not count toward graduation; (O*), more than one and marked with an asterisk are used to record degrees in multiple.

LETTERS OF REFERENCE

John D. Black

Dr. Carl L. Hubbs, Museum of Zoology, University of Michigan, Ann Arbor,
Michigan

I have been acquainted with Mr. John D. Black and have become familiar with his researches on fishes for several years. He has displayed marked ability in his academic work, as his record will show, and he has no doubt received very excellent training at the Indiana University. He has tackled a problem in economic ichthyology that is distinctly related to fish management. This is a field of technical endeavor which is rapidly coming to the front and gives great promise of value in the utilization of our aquatic resources, particularly from a recreational standpoint. To date the development of this field has lagged almost to the point of total neglect in the South, so that it is a matter of very material gratification to us to see a young man from that region so keen in his interests and so determined to advance as Mr. Black.

The particular problem in which Mr. Black has become interested is one that we speak of as the forage fish problem, because the small minnows and shiners are of basic significance in the growth and increase of the game fishes. We have already obtained good evidence that through a study of these forage fishes and their habits we are able to increase their numbers, and in this way to increase the yield of game fish. This is a matter not only of great social significance from the standpoint of healthy recreation, but also one of economic significance running into many millions of dollars annually.

I am strongly of the opinion that a grant to aid Mr. Black would be of real value in developing an important phase of economic biology, and can assure you that an advance of this sort in the South now would be of particular value in that it would encourage other work there. I hope that Mr. Black's application will receive favorable consideration from your Board.

(Letters of Reference, John D. Black)

Kenneth M. Kunkel, Director, Division of Fish and Game, State of Indiana, Conservation Department, Department of Public Works, Indianapolis, Indiana

We have known Mr. Black in Indiana for three years. He worked with us for three summers and accomplished a good foundation on which we hope to have future studies of minnows. Our original purpose was to find a minnow, possibly the one referred to by Mr. Black as the *Notropis Volucellus Volucellus*, that could be cultivated in a pond as food for young black bass. Since his studies were begun, many new lakes have been constructed and we probably will try to extend the range of this fish to these lakes as a forage fish for bass.

One point that impressed us in Mr. Black's statement is his feeling that the work can be done in one or two years. We have found that most of this whole field is unexplored in detail, and we believe there is research on the minnows that would require many years; but we do believe, from the good work Mr. Black has done for us, that a year or two years with you would prove a great and enlightening work for the field of natural science. There may be better men to assign to this work, but we could not name such a person. We are satisfied with what Mr. Black has done for us and with us.

Referring to the paper on the little fish he studied especially in Indiana, we intend that this shall be published. It involves facts that are important to us in bass culture.

Unfortunately, Mr. Black worked for us only during the summer. This made it impossible for him to get the early spring and fall and winter data that he should have. We do not understand your program, but if he could be assigned to Indiana to make a year-around study, we should be well pleased. Mr. Black has laid the foundation in a new field and it would, of course, be a pleasing thing to us to have it continued in Indiana and on that Indiana Foundation of fact.

(Letters of Reference, John D. Black)

Regarding a complete classification of all the fishes of Arkansas, we cannot, of course, speak for that state. It is a southern state, whereas Indiana is both northern and southern and contains both the north and the south in its fish life. In Indiana, however, we doubt very seriously that a complete classification alone, and aside from detailed studies, could be made in less than five or ten years. This could be greatly hastened, of course, by using more men, as Mr. Black seems to have in mind. We might add that a complete classification of all fishes probably will bring to light many new facts and possibly some new species, and again we speak from our knowledge of Indiana and not with reference to any other state.

As for Mr. Black, personally, he is patient, a hard worker, conscientious and accurate, and very sincerely interested in aquatic biology and especially in fishes.

- - -

Mr. S. C. Dellinger, Department of Zoology, University of Arkansas,
Fayetteville, Arkansas

Mr. Black is an unusually fine man; congenial and easy to work with. It is not quite certain whether we will have the funds for him to continue with us next year but I am making every effort possible to retain him.

He has the research type of approach to all of his work. In this day of experimental and laboratory type of zoology, it is quite refreshing to meet with an individual like Mr. Black who actually knows the animals in their native habitat. I believe that he knows more about the Arkansas vertebrates than any other individual in the State.

Mr. Black's knowledge is not superficial in any sense of the word. He keeps very accurate data of everything that he collects.

(Letters of Reference, John D. Black)

The Game and Fish Commission is very much interested in his proposed work. Arkansas has the largest fish hatchery in the world, unfortunately, however, we have not adequately solved the problem of feeding our fingerlings and brood stock. Mr. Black's work should help us immensely in meeting this problem. If the Commission had sufficient funds at their disposal I feel sure we would like to appoint him to attack this minnow problem for them.

Mr. Black is not only a well trained zoologist, he is a very unusual student in other branches, being awarded the Phi Beta Kappa at Kansas. The recommendations that I received from his teachers at that institution are to the effect that he was the best man in his class.

With his interest and ability I feel certain that he will do a good piece of research work if he is granted the fellowship. It seems to be a very happy combination. He is well qualified to take the work and we have an abundance of the raw material for him to study.

- - -

Dr. A. I. Ortenburger, Professor of Zoology, University, Oklahoma, Norman,
Oklahoma

I have known Mr. Black for the past few summers as a research student at Indiana University Biological Station, where I have taught the last six summers. He is a serious-minded chap who does good work and is really interested in research. I think that there can be no question concerning his ability. He has the proper type of mind to carry on a program leading to definite results. He has been a teaching assistant at Indiana University, and this year is an instructor at the University of Arkansas. I know him well and do not hesitate to recommend him to you for serious consideration. He is young, married and has one child. I find him a pleasing personality, serious but with a real sense of humor. He knows his field well

(Letters of Reference, John D. Black)

and I think the problem he has outlined a good and proper one for him to attack. I am happy to recommend him to you.

7
JULIUS ROSENWALD FUND
(RENEWAL)

Candidate **John David Black** Special Field **Zoology**

Part-time instructor in Zoology, University of Arkansas
(on leave, University of Michigan)

Plan of Work Div. of Fishes, Museum of Zoology, University of Michigan

Continuation of my work on the distribution, taxonomy and life histories of Arkansas fishes: the immediate problem being their distribution and general taxonomy, with life history data being accumulated for future study.

Digest of Application

Born July, 1908, Winslow, Arkansas. Married, one child.

A. B. University of Kansas, 1935. M. A. Indiana University, 1937.
Phi Beta Kappa, Sigma XI.

Undergraduate Fellowship, 1931-35. Graduate assistant in zoology, Indiana University, 1935-37, \$600 annually.

Instructor in Zoology, University of Arkansas, 1937-38, \$1200.

Publications: "Mammals of Kansas" a 160 page bulletin; preliminary report on Life History of *Notropis v. volucellus*; "A Winter Robin Roost in Arkansas"; "Birds of the Winslow, Arkansas, Region"; "A New Race of *Peromyscus maniculatus* from Arkansas"; "A New Woodchuck from Kansas"; "Mammals of Northwestern Arkansas."

References

- Dr. Carl L. Hubbs, Museum of Zoology, U. of Michigan
- Dr. E. C. Case, Museum of Paleontology, Michigan U.
- Dr. Paul Walch, Department of Zoology, Michigan
- Dr. Lee R. Dice, Laboratory of Vertebrate Genetics
- Dr. L. C. Stuart, Museum of Zoology

Budget Summary

Total amount needed	\$ 1600
From applicant	---
From Fund	\$ 1600

Committee Notes

Granted



John David Black.

PLEASE RETURN
TO
JULIUS ROSENWALD FUND

REPORT OF PROGRESS UNDER PRESENT GRANT, AND PLAN FOR
COMING YEAR.

Progress Under Grant, from June 15, 1938 to Jan. 17, 1939.

1. Field Work.

Collections were made at some 100 stations, totalling 123 collections, comprising in all approximately 25,000 fishes of more than 100 species and subspecies. The exact number of individuals and species will not be known until the material has been cataloged, later in the year. The field work covered all parts of the state, except the southeastern quarter, and the collection is quite representative, being especially good for the northwestern portion of the state. In spite of the fact that it was built from the life history viewpoint it is by far the largest and best taxonomically as well as ecologically ever to come out of the state.

Other than obtaining actual specimens the field work has been of much value in acquainting me with the habitats of these various species and something of their way of living; data that will be of future use in life history studies as well as immediately in the consideration of distributional problems which are so intimately connected with the manner of life of the individual fish.

One important discovery of interest to a conservation program has been that of finding rainbow trout wild in one stream and finding other streams suitable for trout in the Arkansas Ozarks.



Other results of the field work will be noted in the report of laboratory work. Not to be overlooked in the present connection, however, is the fact that the field work has indicated the critical areas within the state and the best methods and gear to employ in securing the key specimens needed for a more complete understanding of the far-reaching problems encountered.

2. Work in residence at the University of Michigan.

Field work was terminated August 25, 1938; study on the collection here began August 28, 1938. The month before school started was spent exclusively in sorting out the collections and preparing them for further study.

Credentials for entrance into the graduate school were accepted September 21, and transfer of all credits from the University of Kansas and University of Indiana accepted. Credentials indicating a satisfactory reading knowledge of German and French were filed and accepted.

The remainder of the first semester has been spent in sorting and checking the huge collection brought in, and in acquainting myself with the different species. Some significant local variations have been discovered and studied that indicate important bearings on the problems of fish distribution, evolution and life histories in general, and of the south in particular. We have obtained strong indications of stream piracy by and from the White River which will be of significance in an understanding of the post-glacial distribution of many animals, especially the fishes and molluscs, and of no little interest to geologists.

Five forms absolutely new to science have been discovered in the collection to date, and three or four more can be ~~surely~~ considered distinct on the basis of this collection which has supplied the necessary material for a clear understanding of the species, and will be described in the course of the study. Much detailed work remains to be done on most of these forms, and additional material is needed from the previously mentioned "critical areas."

The courses have all been completed creditably and have added much to my better understanding of these problems in particular and zoology in general. This opportunity should be taken to explain the course in Vertebrate Paleontology, under Dr. Case. This is more a course in the morphology of the lower vertebrates, with especially emphasis on the morphology and evolution of the fishes, than it is a course in strict paleontology, and was taken upon the recommendation of Dr. Hubbs, who felt that the training there, and the contact with Dr. Case would be of the utmost value. The grades for this first semester's work will not be reported in time to be included in this application, but there appears no reason to expect other than A's except under Dr. Case, who in 40 years has not been known to give better than a B in this particular course, the most difficult in the university.

The preliminary examination for the doctorate was passed Dec. 16, 1938.

A large collection from Missouri, just across the Arkansas line and within the White River drainage, is now being sorted since it is of considerable importance to have a

good understanding of these fishes in my problem.

I should add that the Arkansas collection made this summer has been especially difficult to handle since it includes every major drainage in the state, except the Bayou Bartholomew, and is abundantly represented by immature stages. Since Arkansas has tributaries from more drainage systems than any state in the south, with the exception of Texas, has the most diversified river habitats known in this country, and appears to be one of the major dispersal centers for the minnows and darters, the range of variation in young and adults is without parallel in our fresh water fishes.

Plan of Future Work.

1. Spring semester (under present grant).

Course work will include physiography, animal geography, proseminar in mammals, in addition to research.

The physiography is taken upon the recommendation of Dr. Case, and the committee, as a substitute for the second semester of paleontology, since Dr. Case feels that I have obtained the fundamental morphology of importance to my problem, and the geological implications of the material here (the Arkansas fishes) makes it desirable that I have a sound understanding of physiography before reentering the field. To this end I have done special reading in physical and historical geology this semester.

The course in animal geography is really animal ecology and is taken to better prepare me for the eventual life history studies.

The proseminar in mammals seems to be the best

available this semester (one is compulsory every semester) and will fit in with my program of general study of the distribution, taxonomy, ecology and conservation of the Arkansas vertebrates.

The research will be a continuation of the work of the past semester, with most of the time being spent in the elaboration of the description of new forms and statistical studies of variations, especially in the stone roller, where we have a subspecies which appears to be a glacial relict, heretofore known only in Wisconsin and northern Iowa, ranging alongside its southern relative, and in the various darters which promise most of the answers to the stream capture problems previously mentioned.

2. Program under renewal for 1939-40.

In the event that the renewal of the grant is made it is proposed to return to the field as quickly as possible at the end of the school term; not later than June 15th, and to immediately make special collections in several streams in north Arkansas where new forms were discovered and where additional material is badly needed, especially of breeding individuals. Then special collections will be made in southwestern Arkansas, near Hope, where we appear to have a new species of darter which possibly will be the smallest vertebrate in North America, and where other interesting and little known species occur. Following this some time will be spent working the Bayou Bartholomew from Pine Bluff to the Louisiana line, since this river has never been studied and so far as we can ascertain no collections taken from it. It promises much. An attempt is to be made, and should be

successful, to obtain the cooperation of the Arkansas Game and Fish Commission to supply their fish boat for a week or more on the lower White, Arkansas and possibly the Mississippi rivers, collecting large water fishes, the one weakest point in our knowledge of North American fresh water fishes.

These collections will be brought here and subjected to the same critical analysis given the present collection.

The school year itself will find my entire time devoted to research, except for one course in biological statistics, and the proseminars.

With this additional material and time I can complete the work with a thesis on the "Distribution of Arkansas Fishes" based on sufficient material and critical study to make it one of the most outstanding contributions to southern biology.

The material gathered on life histories, which will be considerable, will be incorporated in later reports upon my return to the University of Arkansas. One significant phase of that, the growth of fishes, will automatically be covered to a considerable extent in the detailed study for the distribution paper, in addition to the field data, and the accumulation of material for scale and food studies, which will be made available from this collection upon my request.

It is further proposed to study, during the year, the Arkansas fishes in the Field Museum of Natural History-- the old Meek collection--- and the small amount of Arkansas material in the National Museum. These two collections, taken with the material here and that which I have secured, represents almost every Arkansas specimen known to science, including the types of some 20 to 30 species and subspecies.

LETTERS OF REFERENCE

John David Black

Mr. E. C. Case, Professor and Chairman, Department of Geology, University of Michigan.

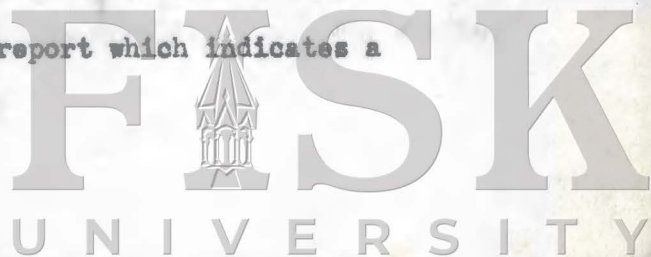
Mr. Black was with me for one semester in a course in vertebrate paleontology, which is conducted as giving instruction in the developmental morphology of the vertebrate skeleton. He was industrious and intelligent both in assigned work and in discussions. I placed him as best in a class of ten graduate students. He is mature and knows what he wants. I believe that he would make good use of any help given him.

- - - - -

Mr. Paul Welch, Professor of Zoology, University of Michigan.

Mr. Black impresses me as being a very substantial and mature type of student, very seriously interested in his research program and the successful completion of graduate work leading to the doctorate. My contact with him has not been intimate, but I see him from time to time and have had several professional discussions with him. My impression is that he is worthy of an opportunity to pursue the line of work which he has already apparently initiated in a very satisfactory form. He seems to be discriminating in his attitude, seems to have the necessary initiative and originality to make research go successfully and to have the consistent urge to keep continually at his work. I am favorably impressed with him and believe that he is worthy of your serious consideration in connection with one of your fellowships.

I have examined the progress report which you transmitted and am disposed to feel that not only have substantial results been obtained, but his plan of work is well constructed and bids fair to lead to a successful conclusion. I see nothing in his report which indicates a



(Letters of Reference - John David Black)

weakness or a serious opportunity for criticism.

Mr. L. C. Stuart, Research Assistant, Museum of Zoology, Instructor of Zoology, University of Michigan.

There is little question as to the scientific significance of Mr. Black's project. The geographic diversity of the state of Arkansas varying from the oscillating coastal plain to the ancient and very stable Ozarkian upland cannot fail to produce material, problems, and solutions of extreme interest not only to the ichthyologist but to those in other zoological fields of endeavor. This diversity of conditions and their inferences become of increasing importance when viewed in the light of our paucity of our knowledge relating to the zoology of Arkansas. Nor are the promises which this rich and virgin area offer to be independently considered. It is indicated from studies in surrounding regions, that this area has been an important center of dispersal of the North American fauna. As a result, any attempt to throw light on the zoological position and relationships of this region, must certainly receive the most careful consideration of any committee designated to appropriate funds for such a study. I cannot, therefore, be over-enthusiastic in recommending to that committee the project outlined by Mr. Black.

As to the capabilities of Mr. Black in executing this project, my personal contacts with him leave little doubt but that he is excellently qualified to complete the investigations. I have no hesitation in stating that the applicant, in his approach to and analysis of problems, is one of the most mature students I have ever been associated with. From his report it should be evident to the committee that his studies

(Letters of Reference - John David Black)

here at the University have all been carefully planned and outlined in such a way as to prepare him for investigating such problems as he has outlined. His maturity of thought cannot be stressed too strongly, for I feel that it will be through this medium that he will be able to complete successfully the investigations which he has initiated. I am convinced that when the problem has been completed, it will not be the thesis of the average graduate student but rather a careful and complete study worthy of a mature investigator.

- - - - -

Mr. Carl L. Hubbs, Associate Professor of Zoology and Curator of Fishes,
University of Michigan.

John David Black has developed very gratifyingly during the period of his residence at the University of Michigan. He came with a very keen interest in the fish life of Arkansas and has sharpened that interest and put it to good use. He has developed a real competence in the identification of the fishes of Arkansas and a sound understanding of the biological problems involved.

Mr. Black's decision to change the subject of his studies under the Rosenwald fellowship met with our hearty approval and we are very happy that the authorities of the Fund agreed to this change. We feel that Mr. Black is heading toward a very creditable fulfillment of our requirements for the doctorate degree and that his thesis will be a noteworthy contribution to ichthyology. Perhaps of more importance from the standpoint of the fellowship is the circumstance that his work will adequately prepare him for continued researches after his return to the South. If he is favored with a



(Letters of Reference - John David Black)

continued appointment at the University of Arkansas, which is anticipated, we can look forward to a long period of active and profitable work leading to scientific contributions of high merit and also to a dissemination of natural history information through Arkansas and adjacent states.

Mr. Lee R. Dice, Director, Laboratory of Vertebrate Genetics; Associate Curator of Mammals in the Museum of Zoology, and Associate Professor of Zoology; University of Michigan.

I have served as a member of Mr. Black's doctoral committee and have been greatly impressed by his intense interest in research and by the persistence with which he works. Furthermore, I judge him to have much ability as an investigator.

My acquaintance with him is too brief to give a fully reliable judgment of his character and personality. However, I have the impression that he is very serious-minded and perhaps a bit weak in imagination. His serious point of view probably interferes slightly in making friends.

The program for the conduct of his field and laboratory research seems to me excellent, and there is no question but that an additional year at the University in association with Dr. Carl L. Hubbs will add greatly to his training in biology and to the value of his research.



FELLOWSHIPS

April 12, 1939

Dear Mr. Black: It is a pleasure to inform you that you have been selected by the Committee on Fellowships of the Julius Rosenwald Fund to receive a renewal grant of Sixteen hundred dollars (\$1,600) to assist you in carrying forward your study of zoology in accordance with the plan of work which you submitted to our Committee.

A plan covering the details of payments under this grant will be arranged to fit your particular needs.

Please let us know at once if you accept this grant. An official announcement of the Committee's selections for the year will be made soon and can include only those from whom acceptances have been received.

Very truly yours,

GEORGE M. REYNOLDS

GMR:JW

Mr. John D. Black
Division of Fishes
Museum of Zoology
University of Michigan
Ann Arbor, Michigan

FISK
UNIVERSITY

FELLOWSHIPS

Fused

April 16, 1938

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Very truly yours,

RAYMOND R. PATY

RP:McK

Mr. John David Black
University of Arkansas
Fayetteville, Arkansas

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