

June 10, 1939.

Copy for Dr. Allen

Dean E. B. Stouffer,
The Graduate School,
University of Kansas.

Dear Dean Stouffer:

I wish to make a report on the \$70.00 that was allowed the department for research this last year. We spent \$31.60 for the impulse counter and transformer and \$4.00 for repair work on the counter. This leaves a balance of \$34.40 which has been allowed to go back into the general fund. The impulse counter and transformer were purchased from the Central Scientific Company. This instrument allows timing to 1/200 of a second.

A preliminary study was made and reported by Dr. Elbel and myself at the Sioux City convention. At the present time Mr. James Raport of our department and Mr. Carmody of Haskell are using the instrument under Dr. Elbel's direction for a special problem.

Due to the circumstances and the press of more urgent duties Dr. Elbel and I discontinued the study that we started last semester. However, I am sure that under Dr. Elbel's leadership the instrument purchased will give a great deal of service in the research field.

I was pleased to note in last night's paper that Dr. Elbel's advance in rank to associate professor had been approved. I think this is a fine step toward the advancement of the department.

I feel that the department has made strides in the direction of graduate work, and hope that it will continue to advance in the future.

I am enclosing copy of a recent radio program which might be of interest.

Very truly yours,

V. W. Lapp

October 29, 1938

Professor V. W. Lapp
Assistant Professor
Department of Physical Education
University of Kansas

My dear Professor Lapp:

I wish to make a change in one statement made in my letter of October 27 in regard to your research grant from the Graduate Research Fund. The sum of \$70 for the purchase of apparatus to be used in connection with the study of muscular reactions is to be placed to the credit of the Research Fund of the Department of Physical Education, not to the fund of the Department of Education as first stated.

Very sincerely yours,

E. B. Stouffer
E. B. Stouffer, Dean

EBS:EC
cc - Elbel
Schwegler
Allen

October 27, 1938

Professor V. W. Lapp
Assistant Professor
Department of Physical Education
University of Kansas

My dear Professor Lapp:

I am writing to inform you that the Graduate Research Committee at a recent meeting voted to grant your request for \$70 for the purchase of apparatus to be used in connection with your study of muscular reactions.

This amount will be placed to the credit of the Research Fund of the Department of Education at the Business Office. In drawing upon the fund you should indicate that payment is to be made from the Research Fund of the Department.

I believe that I should call to your attention the fact that all purchases at the University must be made through a purchase request filed in advance with the Business Office. Failure to observe this requirement would make the payment impossible under a law enacted by the last session of the Legislature. I should, perhaps, add that this does not apply to purchases payment for which is made through transfer checks within the University. In case of doubt about the method of purchase, I suggest that you consult with the Business Office.

Very sincerely yours,

E. B. Stouffer, Chairman
Graduate Research Committee

EBS:EC
cc - Elbel
Schwegler
Allen

RESEARCH NEWS

The University of Southern California

GRADUATE SCHOOL

ROCKWELL D. HUNT, *Editor*

VOL. IV

LOS ANGELES, MAY, 1939

No. 3

RESEARCH IN PHYSICAL EDUCATION

X Research in the field of physical education has taken on increasing importance in recent years, as physical education has become more fully accepted in the educational family. Wider recognition is being given to the fact that proper physical development and continual physical adjustment of the individual can have a vital bearing not only upon his physical health, but perhaps even more profoundly upon his mental-emotional and social health and well-being.

Research in this field, accordingly, is coming to deal more and more with broad fields of subject matter, general teaching techniques, teacher training, tests and measurements, and administration, as these affect the physical, mental, and social welfare of the child. Since physical activity of necessity produces a profound effect upon the life pattern of the child, it is essential that subject matter fields for such activity be carefully selected, and be presented in terms of child needs and interests.

Among significant investigations of this problem is that conducted by the National Curriculum Research Committee of the College Physical Education Association. For the past ten years, this committee has made a nation-wide study of the selection, organization, and administration of the subject matter in the field of physical education, assisted by thousands of leading teachers and administrators. Annual reports have appeared in the *Proceedings* of the society and have been republished in the *Research Quarterly*. In 1937, a condensed manual, entitled *The Physical Education Curriculum, A National Program*, presented the results of the preceding nine years of research. A revised and enlarged edition appearing in 1938 included objective score cards for rating the programs in elementary and secondary schools. The manual serves as a basis for revision in courses of study in many cities and states and as a text in teacher-training courses dealing with curriculum and administration. The score cards are in use for the objective rating of schools in several state-wide surveys sponsored by the respective state superintendents of education under the supervision of the writer. Upon the completion of these surveys, the records of the various schools will be filed in the office of the state superintendent. A number of city and county superintendents are also conducting ratings of their schools under this program. The Curriculum Research Committee is continuing its studies with the hope that ultimately a thoroughly uniform core curriculum in physical education may be established in all states.

WILLIAM RALPH LA PORTE

INSTITUTE OF GOVERNMENT

The eleventh annual Institute of Government, under the general direction of Emery E. Olson, dean of the School of Government, will be held June 12 to 16, 1939. This intensive course of study, developed in thirty-seven sections by lecture and discussion, is professional in attitude and spirit and has as its aim the creation of high standards in the rapidly developing profession of governmental service and, more specifically, the furnishing of inspiration and information to persons engaged in public administration. To provide leadership the committees in the various fields have selected authorities who represent the best minds in governmental service, and annotated bibliographies for each section will be prepared by experienced librarians. Faculty members who will act as section leaders include Sheldon D. Elliott, associate professor of law; John M. Pfiffner, professor of government; and W. Ballentine Henley, John McDiarmid, and Carlton C. Rodee, members of the staff in public administration and political science.

WOMEN'S CIVIC CONFERENCE

The ninth annual Women's Civic Conference, a study program arranged through the co-operative efforts of women's organizations in southern California and sponsored by the School of Government, was held on March 29 under the general chairmanship of Mrs. Arthur J. White. The conference theme, "Democracy versus Dictatorship," was based on court trial patterns, in which there were forty-four participants, representing state and local government, the Board of Education, Parent-Teacher Association groups, and members of the faculties of six colleges and universities. With Judge Turney Fox of the Juvenile Court presiding, current governmental problems were presented.

The afternoon was devoted to public hearings of the court on the topics: "How to Assure Vigor and Efficiency Through Political and Organizational Reforms"; "How to Insure Intelligence and Integrity in Public Office"; "How Rationalization, Prejudice, Emotion, and Reason Affect Citizen Decisions"; and "How to Assure Democracy through Home and School." The University was represented on this program by President R. B. von KleinSmid; Alan Nichols (speech); Stanley Howell (law); Carlton C. Rodee (public administration and political science); John M. Pfiffner (government); Sheldon D. Elliott (law); William H. Burton (education); Merritt M. Thompson (education); Frank H. Jonas (political science); and Nancy Holme (Associated Students).

RESEARCH NEWS

Published bimonthly under the auspices of the
GRADUATE SCHOOL
THE UNIVERSITY OF SOUTHERN CALIFORNIA
LOS ANGELES, CALIFORNIA

Editorial Staff

Rockwell D. Hunt.....Editor
Welcome A. Tilroe.....Assistant Editor

Advisory Editorial Board

Emory S. Bogardus	Milton Metfessel
Harry J. Deuel, Jr.	Lawrence M. Riddle
Ralph T. Flewelling	Albert S. Raubenheimer
Allison Gaw	LeRoy S. Weatherby

VOL. IV

MAY, 1939

No. 3

ALLAN HANCOCK FOUNDATION FOR
SCIENTIFIC RESEARCH

The floating marine laboratory, *Velero III*, recently presented to the University by Captain Allan Hancock as a companion gift to the Allan Hancock Foundation for Scientific Research, is now on her eighth major cruise in equatorial waters of the eastern Pacific, which will take her for the first time into Atlantic waters. With Captain Hancock as director of the expedition, collections of flora and fauna will be sought along the coasts of Mexico, Central America, South America (particularly Venezuela), and in the waters of the Caribbean Sea and the Gulf of Darien.

Participating in this search for rare specimens are Dr. Waldo Schmitt, Curator of Marine Invertebrates, United States National Museum; Dr. William Randolph Taylor, department of botany, University of Michigan; Dr. Harry M. Wegeforth, president of the San Diego Zoological Society; C. B. Perkins, herpetologist of the San Diego Zoo; Karl Koch, ornithologist, San Diego Zoo. Research Associates from The Allan Hancock Foundation of The University of Southern California include Granville Ashcraft, Francis Elmore, John Garth, L. Hogan, Alex Hill, Anker Peterson, Charles Wade, and Fred Ziesenhenné.

Within the next month the following reports of the scientific results of these expeditions will be ready for distribution.

VOLUME TWO

1. A NEW BRITTLE STAR FROM THE GALAPAGOS ISLANDS, FRED ZIESENHENNE. (Plate 1.) 1935.
2. DESCRIPTION OF A NEW BLENNIROID FISH OF THE GENUS *Acanthemblemaria* FROM THE PACIFIC COAST OF PANAMA, GEORGE S. MEYERS and EARL D. REID. 1936.
3. A NEW GENUS OF DISTOMES (Trematoda) WITH LYMPHATIC VESSELS, H. W. MANTER. (Plate 2.) 1937.
4. PARASITIC COPEPODS TAKEN DURING THE THIRD HANCOCK EXPEDITION TO THE GALAPAGOS ISLANDS, CHARLES BRANCH WILSON. (Plate 3.) 1937.
5. SOME MONOGENETIC TREMATODES FROM THE GALAPAGOS ISLANDS AND THE NEIGHBORING PACIFIC, FRANK G. MESERVE. (Plates 4-10.) 1938.

6. THREE NEW TREMATODES FROM THE GALAPAGOS MARINE IGUANA *Amblyrhynchus Cristatus*, PAUL T. GILBERT. (Plates 11 and 12.) 1938.
7. EIGHT NEW SPECIES OF GOBIOID FISHES FROM THE AMERICAN PACIFIC COAST, ISAAC GINSBURG. 1938.
8. LAND AND BRACKISH WATER MOLLUSCA OF COCOS ISLAND, G. DALLAS HANNA and LEO GEORGE HERTLEIN. 1938.
9. NEMATODE PARASITES OF THE GALAPAGOS LAND IGUANA, ASHTON C. CUCKLER. (Plates 13-15.) 1938.
10. A NEW SPECIES OF NYCTERIBIIDAE (DIPTERA PUPIPARA) FROM ISLANDS IN THE GULF OF CALIFORNIA, HUGH SCOTT. (Plate 16.) 1939.
11. A REMARKABLE NEW GENUS OF SEA-URCHIN (SPATANGIDAE), HUBERT LYMAN CLARK. (Plate 17.) 1939.
12. MARINE MOLLUSKS FROM PANAMA COLLECTED BY THE ALLAN HANCOCK EXPEDITION TO THE GALAPAGOS ISLANDS, 1931-1932, A. M. STRONG and LEO GEORGE HERTLEIN. (Plates 18-23.) 1939.

VOLUME THREE

1. MOSSES OF THE G. ALLAN HANCOCK EXPEDITION OF 1934, COLLECTED BY WM. R. TAYLOR, WILLIAM CAMPBELL STEERE. (Plate 1.) 1936.
2. MYXOPHYCEAE OF THE G. ALLAN HANCOCK EXPEDITION OF 1934, COLLECTED BY WM. R. TAYLOR, FRANCIS DROUET. (Plates 2 and 3.) 1936.
3. LICHENS OF THE G. ALLAN HANCOCK EXPEDITION OF 1934, COLLECTED BY WM. R. TAYLOR, CARROLL WILLIAM DODGE. 1936.
4. PLANKTON DIATOMS OF THE GULF OF CALIFORNIA OBTAINED BY THE G. ALLAN HANCOCK EXPEDITION OF 1936, W. E. ALLEN. 1937.
5. PLANKTON DIATOMS OF THE GULF OF CALIFORNIA OBTAINED BY ALLAN HANCOCK PACIFIC EXPEDITION OF 1937, E. E. CUPP and W. E. ALLEN. (Plates 4-15.) 1938.

VOLUME FOUR

1. HYDROIDS OF THE 1934 ALLAN HANCOCK PACIFIC EXPEDITION, C. McLEAN FRASER. (Plates 1-15.) 1938.
2. HYDROIDS OF THE 1936 AND 1937 ALLAN HANCOCK PACIFIC EXPEDITIONS, C. McLEAN FRASER. (Plates 16-18.) 1938.
3. HYDROIDS OF THE 1932, 1933, 1935, and 1938 ALLAN HANCOCK PACIFIC EXPEDITIONS, C. McLEAN FRASER. (Plates 19-21.) 1938.
4. DISTRIBUTION OF THE HYDROIDS IN THE COLLECTIONS OF THE ALLAN HANCOCK EXPEDITIONS, C. McLEAN FRASER. 1939.

VOLUME FIVE

1. THREE NEW ANOMURAN CRABS FROM THE GULF OF CALIFORNIA, STEVE A. GLASSELL. 1938.
2. NEW BRACHYURAN CRABS FROM THE GALAPAGOS ISLANDS, JOHN S. GARTH. (Plates 1-10.) 1939.

VOLUME SIX

1. A REPORT ON SOME ARENACEOUS FORAMINIFERA, JOSEPH A. CUSHMAN and IRENE McCULLOCH. (Plates 1-12.) 1939.

VOLUME SEVEN

1. POLYCHAETOUS ANNELIDS, PART 1. APHRODITIDAE TO PISIONIDAE, OLGA HARTMAN. (Plates 1-30.) 1939.

NOTES FROM THE DEPARTMENT OF ENGLISH

At two recent meetings of the Philological Association of the University, papers of unusual interest were presented by staff members of the department of English language and literature. Dr. Eleazer Lecky presented an analysis of the critical theory of I. A. Richards, and Dr. Garland Greever reported on the manuscripts of Sidney Lanier, one of the lines of research in which he has been engaged during his recent sabbatical leave. H. W. Hill, professor of English language and literature and University Editor, who was also on sabbatical leave during the first semester of the current academic year, visited England, France, Italy, Switzerland, Holland, and Belgium with the object of studying the Renaissance movement in these countries as reflected in their art and literature.

Recent publications by William H. Davenport, assistant professor of English language and literature, include "An Uncollected Poem by George Crabbe," in *Notes and Queries* (London), Vol. 175, No. 27 (1938); and "Shelley and the British Government," in *Notes and Queries*, Vol. 176, No. 2 (1939). Doctor Davenport discussed "Shelley as a Political Reformer" in the University Lecture Series, April 12, 1939. *Dr. Quicksilver*, a biography of Charles Lever by Lionel Stevenson, professor of English language and literature, was published in London, January 30, and was reviewed in the *London Times Literary Supplement* of February 4, 1939. A Canadian edition of Doctor Stevenson's book has also appeared.

John Edgar Berry, candidate for the A.M. degree in English, has just been awarded the James D. Phelan Fellowship in Literature for the coming year in recognition of the promise he has shown in creative writing. Mr. Berry, who has published poetry in *Lyric* and *First the Blade* and has won several prizes in poetry, including the Teague prize for 1937, received this latest award on the basis of a portion of his narrative poem entitled "The Exorcists." William White, graduate student in English, has recently published "Fifteen Years of Shelley Scholarship: A Bibliography, 1923-1938," *English Studies* (Amsterdam), Vol. XXI (1939), pp. 8-11; "Walt Whitman and Sir William Osler," *American Literature* (1939); "Samuel Richardson: Idealist or Realist?" *Modern Language Review* (London), (April, 1939); "Osler on Shakespeare, Bacon, and Burton," *Bulletin of the History of Medicine* (April, 1939).

EXPERIMENTS IN SPEECH TECHNIQUES

During the summer of 1938, a co-operative study, which involved the use of certain speech techniques in nonspeech subjects such as English and the social sciences, was begun in selected high schools of Detroit by Preston H. Scott, head of the department of speech at Wayne University, and Ray K. Immel, dean of the School of Speech of The University of Southern California, who was a member of the summer session faculty at Wayne University. The results

proved so interesting that these educators projected and initiated an experimental study of speech techniques, especially dramatizations and group discussion setups, in the elementary and intermediate grades, which is still in progress. Dean Immel, during the first semester of 1938-1939, visited many colleges and universities of the Middle East and West and made a study of their various curricular and extracurricular programs in radio, dramatics, and speech correction. He found that instruction and practice in the several fields of radio, the university theater as an educational enterprise, and speech correction techniques are all showing steady development in the majority of larger institutions. Dean Immel also delivered addresses before the Wisconsin State Teachers' Association and at the universities of Wisconsin, Michigan, Oklahoma, Ohio Wesleyan, and Syracuse.

VOCATIONAL PLACEMENT CONFERENCE

Under the general chairmanship of President R. B. von KleinSmid, the annual Vocational Placement Conference was held on the campus, March 14, with W. Ballentine Henley, assistant professor of public administration and director of co-ordination, as conference co-ordinator and Mulvey White, director of the Bureau of Employment and assistant to the Counselor of Men, as program chairman. Supported by a selected group of Los Angeles business and professional leaders, seventeen panel discussions on diversified vocations were conducted. Faculty members of the several departments of the University presided over these discussions: Frederick Woodbridge (accounting), Reid L. McClung (advertising, marketing, and retailing), Clayton M. Baldwin (architecture), Earl W. Hill (aviation and transportation), Harry J. Jordan (banking and finance), Thurston H. Ross (business management), Robert E. Vivian (chemical engineering), Robert M. Fox (civil engineering), Philip S. Biegler (electrical engineering), John M. Pffner (government), William G. Hale (law), Thomas T. Eyre (mechanical engineering), John F. Dodge (petroleum engineering and geology), Laird J. Stabler (pharmacy), Richard E. Huddleston (radio), and E. G. Blackstone (secretarial administration).

AMERICAN ASSOCIATION OF SCHOOL ADMINISTRATORS

The University of Southern California was represented by Osman R. Hull and William H. Burton, professors of education, at the sixty-ninth annual convention of the American Association of School Administrators, which convened in Cleveland, Ohio, February 25 to March 2. Both Doctor Hull and Doctor Burton conducted discussion groups at the convention, which had as its general theme, "The Foundations of American Education." Doctor Burton gave an address on "Supervision Which Improves Learning," and Doctor Hull spoke on "What Can Be Done with Old Buildings."

Personal Mention

Reprinted from the *Romanic Review*, February, 1939, is a Dante note by Herbert D. Austin, professor of Italian and French, on "Storpio" (*Purg.*, XXV, 1).

In a recent issue of the *Science of Mind*, Hans Nordewin von Koerber, professor of Asiatic studies and director of the Foundation of Asiatic Studies, has an article on "Lao Tzu and China."

Olga Hartman, research zoologist of the Allan Hancock Foundation for Scientific Research, has been awarded the Sarah Berliner Research Fellowship by the American Association of University Women.

Charles F. Lindsley, Ph.D. 1932, head of the department of speech at Occidental College, has been appointed to honorary membership on the Advisory Council of the Association of Teachers of Speech of Southern California.

Thomas Clements, head of the department of geology, who is at present on sabbatical leave, has been commissioned by the Colombian government to make geological surveys in the eastern range of the Andes.

At a meeting of the Mathematical Association of America, held at Whittier College, March 4, 1939, Franklin R. Butter, Jr., instructor in mathematics, presented a paper on "A Note on a Certain Exponential Equation."

George B. Mangold, professor of social work, has been appointed chairman of the Los Angeles County Probation Commission, which has charge of Juvenile Hall in Los Angeles, a home for delinquent boys, and El Retiro, San Fernando, a similar institution for girls.

Alastair M. Taylor, teaching assistant in general studies, has an article on "The Historical Novel as a Source of History," in a recent number of the *Sewanee Review*. Mr. Taylor is president of the Associated Graduate Students of the University.

George R. Johnstone, professor of botany, has an article on "Sodium Hypochlorite for Poison Oak, Poison Ivy, or Poison Sumac," in *The American Biology Teacher*, Vol. I (1939), No. 4, pp. 77-8. Doctor Johnstone has recently been appointed to the board of directors of The Southern California Botanists.

Gregory Mason, Ph.D. 1938, a member of the faculty of New York University, is the author of *Remember the Maine*, a new history of the Spanish-American War. An earlier book by Doctor Mason, dealing largely with archaeological materials, is entitled *Columbus Came Late*.

J. Eugene Harley, head of the department of political science, is co-author of *Contemporary World Problems*, a textbook for use in the field of international relations and related subjects. This volume of some 800 pages is edited by Francis J. Brown, Charles Hodges, and Joseph S. Roucek of New York University.

Southern California Business Review for February, 1939, is devoted to a study of "Governmental Taxation of Business," prepared by Rex Ragan, assistant professor of accounting and taxation. The study offers a number of constructive criticisms against the Federal Revenue System and its actual administration.

Karl Olsen, A.M. 1936, who has held a fellowship in political science at Yale University for the past two years, has been awarded one of the seven fellowships given by the Lady Julia Henry Fund for advanced study in England, which includes a year's study at Cambridge University.

Samuel E. Gates, A.M. 1929, Law '33, has been appointed acting chief of the new international division of the Civil Aeronautics Authority at Washington, D.C. Mr. Gates was awarded the Carnegie Foundation fellowship for international law in 1930, and received a degree in international law from the University of Paris.

Four advanced students of botany under the direction of George R. Johnstone presented the program for the February, 1939, meeting of the Metropolitan Aquarium Society. Earl D. Gowin, 1939, spoke on the culture of blue-green algae in filtered light; Fenton

Feeney, A.B. 1938, on red algae and their uses; Francis Elmore, M.S. 1936, and Charles Herbst, M.S. 1933, on the difficulties encountered in maintaining a balanced water aquarium.

On the comprehensive program of the International Association of Microbiologists, whose third congress will be held in New York City, September, 1939, the University will be represented by John F. Kessel, Anson P. S. Hoyt, and Carl Lindegren of the department of bacteriology. Doctor Kessel is a corresponding member of the sections on Viruses and Viral Diseases, Medical and Veterinary Bacteriology, and Fungi and Fungous Diseases.

Carl Sumner Knopf, dean of the School of Religion, addressed groups in Bishop and Bakersfield, March 2 and 3, on "Democracy and Religion." From March 28 to April 4, Doctor Knopf conducted a community series of lectures and discussions in Tucson, Arizona, before representative groups in the University of Arizona, local service clubs, and churches, with the purpose of promoting the religious factor in varied community interests.

Ernest W. Tiegs, dean of University College and professor of education, is serving as consultant to the College of Medical Evangelists in the study of diagnostic and comprehensive examinations and marking practices. This progressive medical college is investigating the desirability of establishing a unified examination system for all departments in order to improve the validity and comparability of final course marks.

Clinton H. Thienes, professor of pharmacology in the School of Medicine, has just published *A Field Manual in Toxicology* at the request of the Los Angeles County Agricultural Commission. This volume, which is the result of two years' research, is intended as an aid to persons subjected to sprays and other poisons in agricultural pursuits. The manual is now in use by the California State Department of Agriculture and by experts in the Federal Service.

Rockwell D. Hunt, dean of the Graduate School, and Emory S. Bogardus, dean of the Graduate School of Social Work, are making a three months' goodwill tour to South America, where they will visit universities and major points of interest in Argentina, Brazil, Chile, Bolivia, Peru, and the Canal Zone. Dean Hunt is collecting data on economic and political problems in Latin-American countries, and Doctor Bogardus is making a special study of racial problems.

"Co-operative Research Within the Faculty" is the title of a paper presented by Reid L. McClung, dean of the College of Commerce and Business Administration, before the twentieth annual meeting of the American Association of Collegiate Schools of Business, held at the University of Illinois. In this paper, which appears in the *Proceedings* of the Association, Dean McClung pleads for "thorough co-operative research for the study of specific human and business problems."

With Ira L. Wiggins of the Botanical Society of America, Dr. Howard de Forest is engaged in arranging a joint symposium of this organization and the Ecological Society of America, to be held at the June, 1939, meetings of the American Association for the Advancement of Science at Stanford University. The subject of this symposium will be "Recent Contributions of Botany and Ecology to Society." Dr. de Forest is chairman of the executive committee of the western section of the Ecological Society.

Reprinted from *Food Research*, Vol. 3, No. 4 (1938), is an article on "Bactericidal Activity of Crotonaldehyde" by Robert L. Ingersoll, Bernard Scott, and Carl C. Lindegren of the department of bacteriology and Richard E. Vollrath of the department of physics. Other publications from this department include "Physiological Effects of Garlic and Derived Substances" by Maxwell Carl, Robert McKnight, Bernard Scott, and Carl C. Lindegren in *The American Journal of Hygiene*, Vol. 29, No. 1, Sec. B, pp. 32-35 (1939); and "Non-Random Crossing Over in the Second Chromosome of *Neurospora Crassa*" by Carl C. Lindegren and Gertrude Lindegren in *Genetics*, Vol. XXIV (1939), pp. 1-7.