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RS 13/24/52

Oscar Kempthorne

Papers, 1819-1995, n.d.

Descriptive summary

creator: Kempthorne, Oscar
title: Papers
dates: 1819-1995, n.d.
extent: 77.22 linear feet (169 document boxes, 23 half-document boxes, 1 17" box)
collection number: RS 13/24/52
repository: University Archives, Special Collections Department, Iowa State University.

Administrative information

access: Open for research
publication rights: Consult Head, Special Collections Department
preferred citation: Oscar Kempthorne Papers, 1819-1995, n.d., RS 13/24/52, Special Collections Department, Iowa State University Library.

Biographical note

Oscar Kempthorne was born January 31, 1919 in St. Tudy, Cornwall, England. He began his fascination with mathematics at the age of 10 with ancient rate problems, moving to real algebra and calculus in high school. He aspired to attend Cambridge University, which had a reputation for excellence in mathematics and was successful enough to receive his education fully upon scholarship.

Oscar Kempthorne received a B.A. (1940) with Honours from Cambridge University, an M.A. (1943), and was awarded the Sc.D. degree (1960) conferred on the basis of Dr. Kempthorne's research in the design of experiments and genetic statistics. As a student, Kempthorne studied under Wishart, Irwin, Eddington, Hawking, Jeffreys and was first exposed to R.A. Fisher, whom he eventually met in 1951. Fisher, whom Kempthorne called "a genius," was a driving force in genetics and developed two new approaches to mathematics, the interpretation of data and the collection of data. While at Cambridge, Dr. Kempthorne was introduced to burgeoning ideas in statistics, for example, errors of observation, analysis of variance and design and analysis.

His first actual statistical work came in a 1940 collaborative drug study with J.O. Irwin. From 1941-1946 he was employed under Frank Yates at the Rothamsted Experimental Station, perhaps the first agricultural research station. In 1946 Oscar Kempthorne worked as a statistician as part of an international organization monitoring elections in post-war Greece. It was in Greece that Dr. Kempthorne was introduced to the statistics department at Iowa State University, and he thereby joined the fledgling department.

When Oscar Kempthorne joined Iowa State University in 1947 as an Associate Professor of Statistics in the Mathematics Department there were only three Departments of Statistics in the United States that awarded degrees in Statistics: Iowa State University, University of North Carolina at Chapel Hill and North Carolina State University at Raleigh. At the time of his retirement the number of universities awarding degrees in statistics had swelled from three to over 180 in the United States.

Dr. Kempthorne was promoted to Professor of Statistics in 1951 and to Distinguished Professor in Science and Humanities in 1964. During his years at Iowa State University he continued to teach enthusiastically, carry through a number of contractual research and grant projects, publish a variety of applied statistics articles, and work on his basic inquiries into statistical inference. He is sole or coauthor of some 140 papers; his publications include the Journal of American Statistical Association (JASA), Annals of Mathematical Statistics, Biometrics, Genetics, Proceedings of the Royal Society of London, as well as various substantive journals.

Dr. Kempthorne wrote five books while at Iowa State University, The Design and

Analysis of Experiments, Statistics and Mathematics Biology, An Introduction to Genetic Statistics, Biometrical Genetics, and Probability, Statistics and Data Analysis. Two of which are fundamental texts in introductory statistics curriculums.

Within Dr. Kempthorne's first years he became deeply involved with the graduate program. He became the principle individual actively directing graduate research in statistics; he was then 29 years old. In his 44 years at Iowa State University, 44 Ph.D. students have completed doctorates under him; 8 of these and 16 other students completed master's programs under his guidance.

Between 1970 and 1984, Dr. Kempthorne received various awards for his excellence in teaching and research in statistics. He received the Wilton Park Award made to Iowa State University faculty to participate in the Wilton Park Conference in Sussex, England and was Recipient of the Iowa State University Alumni Association Faculty Citation for long, outstanding and inspiring service on the University staff in 1977. In 1984, a Festschrift was named in honor of Oscar Kempthorne, Experimental Design, Statistical Methods, and Genetic Statistics, edited by Klaus Hinkleman and Marcel Dekker.

Professor Kempthorne served as the fiftieth president of the Institute of Mathematical Statistics (IMS), 1984-1985; chair, Section U (Statistics) of the American Association for the Advancement of Sciences (AAAS), 1981; and as president of the Biometric Society (Eastern North America Region) in 1961 and 1964. He was elected a fellow of the American Statistical Association (ASA), 1952; IMS, 1952; AAAS, 1952; an elected member of the International Statistical Institute (ISI), and was named an honorary fellow of the Royal Statistical Society in 1988. After over fifty years in statistics, he retired in 1989. In his final year at Iowa State University, Dr. Kempthorne was honored by his colleagues with a conference entitled "From Observation to Inference – A Conference in Honor of Oscar Kempthorne."

As emeritus professor of statistics and emeritus distinguished professor in liberal arts and sciences at Iowa State University, Oscar Kempthorne received an honorary doctor of philosophy degree from the University of Ioannina, Greece in 1993. It was the first honorary degree offered in the school's 25-year history. Kempthorne was honored for "his outstanding contributions in the fields of statistics and statistical genetics." Later that year, Iowa State University dedicated the Statistics Reading Room, one of Dr. Kempthorne's responsibilities, the Oscar Kempthorne Reading Room.

Collection description

The Oscar Kempthorne Papers (1939-1995) document his professional activities as a Distinguished Professor in Science and Humanities at Iowa State University. During his professional career he organized and participated in various conferences, taught, researched, wrote, lectured, advised, belonged to several professional organizations, as well as receiving various honors and awards. Also included are records of the Iowa State University Statistics Laboratory, typescripts of his two most popular texts, original drafts of publications, conference notes, grant applications and information, correspondence, teaching materials, lectures and research data.

Organization

The Kempthorne papers are comprised of the following series of papers:

Series 1: Biographical Information, 1944-1995

Series 2: Correspondence, 1941-1992, n.d.

Series 3: Grants, 1955-1982, n.d.

Series 4: Professional Organizations, Conferences, and Travel, 1950-1990, n.d.

Series 5: Research and Teaching Related Materials, 1948-1987, n.d.

Series 6: Scientific Subject File, 1941-1982, n.d.

Series 7: Writings: Articles, 1944-1995, n.d.

Series 8: Writings: Books, 1952-1977

Series 9: Writings: Reviews by Oscar Kempthorne, 1948-1980, n.d.

Series 10: Writings: Reviews by Miscellaneous Authors, 1970-1992, n.d.

Series 11: Writings: Early Papers, 1944-1971, n.d.

Series 12: Writings: Working Papers, 1947-1986, n.d.

Series 13: Correspondence from Residence, 1949-1995, n.d.

Series 14: Consulting: Materials from Residence, 1947-1983, n.d.

Series 15: Materials from Residence: Teaching Materials and Coursework, 1951-1993, n.d.

Series 16: Department of Statistics, 1941-1995, n.d.

Series 17: Graduate Theses, 1959-1993, n.d.

Series 18: Reference Materials, 1819-1994, n.d.

Series 19: Reviews, 1971-1994, n.d.

Series 20: Writings, Lectures, Symposiums, Speeches, Comments, and Conferences, 1930-1994, n.d.

Description of series

Series 1 Biographical Information 1944-1995

extent: .032 linear ft. (4 folders)

description: Within his professional papers there are biographical materials which includes biographical information, news clippings, daily academic diaries from 1985-1987, his curriculum vitae, and a chronological publications list. The biographical materials cover Oscar Kempthorne from 1947 until his retirement in 1989 from Iowa State University.

Various news clippings include information from 1964 when he was named Distinguished Professor; his 1970 presentation at the Waterloo University symposium of his paper "Probability, Statistics and the Knowledge Business;" his participation in the 1971 Wilton Park Conferences; the 1973 International symposium in Fort Collins; a 1970 seminar series presented in eastern universities; 1978 comments on Heredity and IQ; the 1979 Regional Conference in Mathematical Sciences; his 1989 retirement and his 1993 acceptance of a honorary doctor of philosophy degree from the University of Ioannina in Greece.

Also included is *Oscar Kempthorne: The Iowa State University Record 1947-1989* from the Observation of Inference – A Conference in Honor of Oscar Kempthorne, which includes a comprehensive summary recognizing Dr. Kempthorne's influence and contribution to statistics in his 42 ½ years at Iowa State University.

Container list

Box	Folder	Title	Dates
1	1	Biographical Materials	1952-1989
1	2	Publications List	1944-1978
1	3	Academic Calendars	1985-1987
193	2	Memorial Service Brochure – Valda Kempthorne	1995

Description of series

Series 2 Correspondence 1941-1992,n.d.

extent: 6.416 linear ft. (770 folders)
Boxes 2-55, 151-153, 155-156, 158, 160, 163, 166, 168-170, 174-178, 182, 184, 189, 191-192

description: Dr. Kempthorne's substantial professional correspondence is organized alphabetically by the individual correspondent, and subsequently chronologically. Correspondents include his former Ph.D. and Masters students, most of whom later became his colleagues. They include: Sydney Addleman, John Aleong, Virgil L. Anderson, N. R. Bohidar, E. J. Carney, Jose Carvalho, R. L. Chamberlain, Charles Cress, Eugene Dayhoff, Herbert A. David, H. T. David, T. E. Doerfler, Arthur M. Dutton, Ted H. Emigh, Leroy Folks (coauthor Probability, Statistics, and Data Analysis), Gauri L. Ghai, Francis Giesbrecht, Franklin Graybill, Klaus Hinklemann (126/24), John F. Hofmann, Max R. Mickey, Bernard Ostle, Gilda Paraja, B. A. Rojas, Carl Roux, R. G. D. Steel I. Maruitz R. Van Aarde, Robert F. White, Martin B. Wilk, and George Zyskind (129/14, 129/15). A complete listing of Ph.D. and M.S. recipients and their professional occupations are located in Dr. Kempthorne's curriculum vitae filed with his biological materials in box 1, 111/4, 111/5.

Dr. Kempthorne's considerable professional correspondence incorporates his association with other assorted individuals, colleagues, coauthors, and acquaintances including: T.A. Bancroft; D. Basu; Joseph Berkson; Allan Birnbaum; Charles A. Black, Agronomy Iowa State University; V. P. Godambe; Dewey L. Harris; William G. Hill; Nouri Esmat, D. B. Owen, Edward Pollack, Statistics, Iowa State University; John W. Tukey, with additional references in boxes 67/2, 69/5; and Neil Throckmorton with other references in box 67/1.

Also included in Dr. Kempthorne's papers is correspondence between himself and Sir Ronald A. Fisher, whom he admired and followed. Additional references to Sir R. A. Fisher can be found in boxes 79/12, 79/13, 19/14, 79/15, 79/16, 80/1, 80/2, 80/3, 110/9, 110/10, 123/10, 123/21, 124/13, 127/1, 127/29.

The miscellaneous correspondence is categorized alphabetically and incorporates a variety of miscellaneous files of correspondence between Oscar Kempthorne and various societies, institutions organizations and industry.

Container list

Box	Folder	Title	Dates
2	1	Abian, Alexander	1980,n.d.
2	2	Addleman, Sidney	1956-1961
2	3	Addleman, Sidney	1962-1969
2	4	Addleman, Sidney	1970-1981
2	5	Aggarwal, O.P.	1949-1966
2	6	Aleong, John	1986-1972
2	7	Allmaras, R. R.	1982-1985
2	8	Allmaras, R. R.	1986
2	9	Amble, V. N.	1975-1955
2	10	Anderson, Richard L.	1958-1974
2	11	Anderson, T. W.	1952-1975
2	12	Anderson, Virgil L.	1942-1955
2	13	Anderson, Virgil L.	1956-1986
3	1	Anscombe, Francis J.	1947-1982
3	2	Arnold, Barry C.	1966-1988
3	3	Arnold, Barry C. and Richard A. Groeneveld	n.d.
3	4	Arnold, G. C.	1985
3	5	Athreya, Krishna B.	1980-1986
3	6	Atkinson, Joe	1965-1970
3	7	Ayala, F.	1975-1977
3	8	Bai, Jongsong	1987
3	9	Balaam, L. N.	1978
3	10	Bamiduro, B.	1980
3	11	Bancroft, Theodore Alfonso	1951-1962
3	12	Bancroft, Theodore Alfonso	1962-1967
3	13	Bancroft, Theodore Alfonso	1968-1986
3	14	Banerji, S.	1978
3	15	Barnard, G. A.	1975
3	16	Bartlett, M. S.	1949-1977

Box	Folder	Title	Dates
3	17	Basson, Rodney Peter	1960-1961
4	1	Basson, Rodney Peter	1962-1977
4	2	Basu, D.	1961-1976
4	3	Basu, D.	1976
4	4	Basu, D.	1977
4	5	Basu, D.	1978-1980
4	6	Basu, D.	1981-1987
4	7	Beasly, Patti	1990
4	8	Bennett, Henry	1953-1982
4	9	Berall, Geoffrey	1974
4	10	Bereskin, Ben	1966-1969
4	11	Berger, James O.	1986-1989
5	1	Berkson, Joesph	1949-1974
5	2	Berkson, Joesph	1974-1978
5	3	Berkson, Joesph	1978-1979
5	4	Bickel, Peter J.	1963-1972
5	5	Binet, F. E.	1958-1962
5	6	Binet, F. E.	1963-1972
5	7	Birnbaum, Allan	1959-1970
5	8	Birnbaum, Allan	1971-1976
6	1	Birnbaum, Allan	1968-1974
6	2	Biyani, Shriram Harikishan	1979
6	3	Black, Charles A.	n.d.
6	4	Black, Charles A.	n.d.
6	5	Black, Charles A.	n.d.
6	6	Black, Charles A.	n.d.
6	7	Bliss, C. I.	1956-1960
6	8	Blyth, Collin R.	1970-1973
7	1	Bodmer, W. F.	1964-1979
7	2	Bohidar, Neeti Ranjan	1959

Box	Folder	Title	Dates
7	3	Bohidar, Neeti Ranjan	1959-1970
7	4	Booth, Gordon	1973
7	5	Boruch, Robert F.	1967-1979
7	6	Bowden, Leon D.	1965-1967
7	7	Box, G. E. P.	1955-1980
7	8	Bradley, Ralph A.	1959-1984
7	9	Brain, Carlos W.	1964-1973
7	10	Brien, C.	1978-1979
7	11	Broemeling, Lyle	1974
7	12	Bross, Irwin D. J.	1968-1971
8	1	Brown, W. L.	1976-1977
8	2	Browning, G. M.	1952-1978
8	3	Brownlee, K. A.	1983
8	4	Bryson, M. R.	1961
8	5	Buehler, Robert J.	1958-1961
8	6	Buehler, Robert J.	1962-1985
8	7	Bunge, Mario	1974
8	8	Burford, Roger L.	1974
8	9	Cady, Foster B.	1975-1980
8	10	Cairns, S. S.	1949
8	11	Camilli, Gregory	1987-1988
8	12	Campell, D. T.	1960
8	13	Cardellino, Roberto	1975
9	1	Carney, Edward John	1960-1990
9	2	Carrillo, Alfonso Fausto	1972-1976
9	3	Carvalho, Jose Ferriera de	1974-1980
9	4	Carvalho, Jose Ferriera de	1981-1984
9	5	Caspari, E. W.	1967-1972
9	6	Cavalli, Sforza L.	1974
9	7	Chamberlain, Richard Lavern	1968-1970

Box	Folder	Title	Dates
9	8	Chamberlain, Richard Lavern	1969
9	9	Chanda, K. C.	1968-1978
9	10	Charlesworth, B.	1970-1973
9	11	Chia, A. B.	1972-1975
9	12	Clem, M.	1979
9	13	Cochran, W. G.	1941-1978
10	1	Cochran, W. G.	1980-1982
10	2	Cockerman, C. C.	1970-1986
10	3	Cohen, Arthur	1972-1981
10	4	Collier, R. O.	1959-1977
10	5	Compton, W. A.	1989
10	6	Comstock, R. E.	1952-1989
10	7	Cornfield, Jerome	1954-1978
10	8	Cornette, James	1974-1975
10	9	Cox, C. Phillip	1952-1969
10	10	Cox, David F.	1962-1981
10	11	Cox, David R.	1953-1986
11	1	Cox, Gertrude M.	1947-1978
11	2	Cress, Charles Edwin	1962-1978
11	2	Cressie, Noel Andrew Campbell	1978-1988
11	4	Crow, James F.	1951-1978
11	5	Cruz, Vivaldo de	1977-1978
11	6	Curnow, Robert N.	1959-1986
11	7	Cuthbert, Daniel	1968-1984
12	1	Cuthbert, Daniel	1954-1967
12	2	Da, Yang	n.d.
12	3	Dahm, Paul Frederick	1979
12	4	Dash, S. P.	1965-1975
12	5	Da Silva, Roberto Guilherme	1975
12	6	David, H. A.	1984

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12	7	David, Herbert A.	1978
12	8	David, Herbert A.	1969-1987
12	9	David, Herbert T.	1957-1959
12	10	David, Herbert T.	1964-1987
12	11	Dayhoff, Eldred Eugene	1961-1978
12	12	DeGroot, Morris H.	1987
12	13	Deming, W. Edward	1947-1986
12	14	Dempster, A. P.	1974- 1980,n.d.
12	15	Dempster, Everett R.	1954-1964
13	1	Diaconis, Persi	1973
13	2	Dickerson, G. E.	1986
13	3	Dixon, Winfred J.	1955-1957
13	4	Dodds, Ken J.	1981
13	5	Doerfler, Thomas Eugene	1962-1963
13	6	Doerfler, Thomas Eugene	1963-1980
13	7	Dos Santos, Aldo F.	1965-1968
13	8	Douglas, J. B.	1978-1979
13	9	Dubey, Satya	1971-1974
13	10	Duboise, Paul	n.d.
13	11	Dunnett, C. W.	1969-1970
13	12	Dutton, Arthur M.	1948-1969
13	13	Easterling, R. G.	1971-1979
13	14	Easton, M. L.	1975
13	15	Eckhardt, Robert B.	1973
13	16	Edgington, E. S.	1980-1982
13	17	Edwards, A. W. F.	1965-1975
13	18	Efron, Bradley	1964-1982
13	19	Ehrenberg, A. S. C.	1979-1982
13	20	Eisenhart, C.	1949-1975

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14	1	Ellena, E.	1961-1980
14	2	Elrod, John	1981
14	3	Eltinge, John Lamont	1986
14	4	Emigh, Ted H.	1974
14	5	Emigh, Ted H.	1975-1976
14	6	Emigh, Ted H.	1976-1977
14	7	Emigh, Ted H.	1977-1978
14	8	England, M.	1974
14	9	Erdaljan, Vitomir	1972-1973
14	10	Escobar, Luis Alberto	1979-1980
14	11	Ewens, Warren J.	1966-1971
15	1	Ewens, Warren J.	1971-1985
15	2	Fabergé, A. L.	1947-1957
15	3	Failor, Edward	1973
15	4	Fang, P.	1981-1989
15	5	Federer, Walter T.	1948-1980
15	6	Feldman, Marcus	1973-1985
15	7	Feldt, Leonard	1973
15	8	Felsenstein	1968-1973
15	9	Fienberg, Stephen E.	1989
15	10	Finch, Peter D.	1968-1989
16	1	Finney, David J.	1952-1987
16	2	Fischer, Lloyd	1974-1984
16	3	Fischer, Marian	1977-1978
16	4	Fisher, Sir Ronald A.	1953-1955
16	5	Fisher, Sir Ronald A.	1962-1963
17	1	Fluharty, Dave	1986-1987
17	2	Folks, John Leroy	1956-1988
17	3	Folks, Leroy	1969-1982
17	4	Fraser, D. A. S.	1959-1970

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17	5	Fryer, Holly Claire	1961-1974
17	6	Fuchs, Holly	1974
17	7	Fuh, Cheng-Duh	1986
17	8	Fuller, Wayne A.	1964-1984
17	9	Gabriel, K. Ruben	1974-1986
18	1	Galhoun, Cedric S.	1974
18	2	Gallant, A. Ronald	1970-1974
18	3	Gani, Joesph M.	1978-1982
18	4	Gehan, E. A.	1975
18	5	Geisser, Seymour	1967
18	6	Gerloff, Jane	1984
18	7	Ghai, Gauri Lall	1966-1969
18	8	Ghai, Gauri Lall	1969-1973
18	9	Ghai, Gauri Lall	1973-1980
18	10	Ghai, Gauri Lall	1977
18	11	Ghosh, J. K.	n.d.
18	12	Ghosh, Malay	1974-1990
18	13	Ghosh, Subir	1983
19	1	Giere, Ronald N.	1973
19	2	Giesbrecht, Francis Gerhard	1962-1964
19	3	Giesbrecht, Francis Gerhard	1964
19	4	Giesbrecht, Francis Gerhard	1964-1971
19	5	Giesbrecht, Francis Gerhard	1971-1982
19	6	Gill, John	1962-1963
19	7	Gill, John	1964-1973
19	8	Ginsburg, E. H.	1971-1973
19	9	Godambe, V. P.	1974-1979
20	1	Godambe, V. P.	1970
20	2	Godambe, V. P.	1975
20	3	Godambe, V. P.	1975

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20	4	Godambe, V. P.	1975-1979
20	5	Goldberg, Samuel	1950
20	6	Goldberger, Arthur	1975
20	7	Goldberger, A. S.	1977
20	8	Good, Irving J.	1981-1987
20	9	Good, Irving J.	1984-1987
20	10	Goodman, Arnold F.	1970-1972
20	11	Goodman, Leo A.	1970-1980
20	12	Gotway, Carol Anne	1986
21	1	Gould, A. Lawrence	1965
21	2	Graf, David	1975
21	3	Graybill, Franklin A.	1952-1987
21	4	Greenberg, B. G.	1976-1977
21	5	Grey, Philip	1948
21	6	Griffing, Bruce	1948-1982
21	7	Groenevald, Richard A.	1974-1981
21	8	Grubbs, Frank	1980
21	9	Gunther, Bill	1986
21	10	Gupta, Shanti	1986-1990
21	11	Gupta, Sudhin	1987
21	12	Gurland, J.	1957
21	13	Hall, Irving	1972-1978
21	14	Hallaman, Karen	1975
21	15	Han, Chien-Pai	1970-1974
21	16	Hansen, James N.	1972-1975
22	1	Harris, Dewey L.	n.d.
22	2	Harris, Dewey L.	1961-1979
22	3	Harris, Dewey L.	1964-1975
22	4	Harris, T. E.	1955-1968
22	5	Harrison, Stephen	1954-1956

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22	6	Harshbarger, Boyd	1965-1972
22	7	Hartigan, John A.	1967-1976
22	8	Hartl, D. L.	1975-1981
22	9	Hartley-Festschrift	1976-1977
23	1	Hartley, H. O.	1954-1982
23	2	Harvey, Walter	1969
23	3	Harville, David A.	1973-1981
23	4	Hazel, L. N.	1959-1972
23	5	Heers, John	1959-1972
23	6	Heiberger, R. M.	1974
23	7	Hemmerle, William J.	1963-1964
23	8	Henderson, Charles R.	1955-1981
23	9	Hering, Franz	1987
23	10	Herzberg, Agnes M.	1973-1979
23	11	Heston, Leonard L.	1969-1971
23	12	Hildreth, Clifford	1953-1971
23	13	Hill, Bruce M.	1964-1967
24	1	Hill, William G.	1967-1987
24	2	Hill, William G.	1967
24	3	Hill, William G.	1963-1973
24	4	Hill, William G.	1963-1973
25	1	Hinklemann, Klaus Heinrich	1957-1963
25	2	Hinklemann, Klaus Heinrich	1963-1967
25	3	Hinklemann, Klaus Heinrich	1967-1976
25	4	Hinklemann, Klaus Heinrich	1976-1983
25	5	Hinklemann, Klaus Heinrich	1983-1991
25	6	Hinklemann, Klaus Heinrich	n.d.
25	7	Hinklemann, Klaus Heinrich	n.d.
25	8	Hinkley, David V.	1975-1981
25	9	Hinz, Paul N.	n.d.

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26	2	Hixon, R. M.	1954-1959
26	3	Hodges, J. L.	1961-1965
26	4	Hoeschele, Ina	1987
26	5	Hofmann, John F.	1949-1959
26	6	Hogg, Robert V.	1971-1984
26	7	Holland, Paul W.	1985
26	8	Homeyer, P. G.	1974-1984
26	9	Hooker, C. A.	1973-1975
26	10	Hooper, James	1982
26	11	Hoover, Max M.	1953-1963
26	12	Hopkins, J. W.	1955-1957
26	13	Horn, Susan	1976-1977
26	14	Horner, T. W.	1959-1982
27	1	Howiz	1949-1983
27	2	Hudson, Derek J.	1969
27	3	Hosking, Zena	1944-1948
27	4	Hull, Fred H.	n.d.
27	5	Hunter, J. Stuart	1963-1977
27	6	Huntington, R. L.	1956
27	7	Huntsberger, David V.	1978-1979
27	8	Huzurbazar, V. S.	1974-1988
27	9	Ikeda, Sadao	1973-1976
27	10	Isaacson, Dean L.	1968-1984
27	11	Ives, William G. H.	1953-1956
27	12	Jaquard, A.	1977-1981
27	13	Jaynes, E. T.	1973
27	14	Jebe, Emil	1960-1987
27	15	Jenks, Christopher	1972
28	1	Jensen Affair	1970-1981

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28	2	Jensen, Donald R.	1958-1985
28	3	Jensen, Louis	1969-1977
28	4	Jeske, Daniel Robert	n.d.
28	5	Jessen, Raymond J.	1978-1980
28	6	Jobe, Marcus	1955-1983
28	7	John, J. A.	1976
28	8	Johnson, N. L.	1982-1986
28	9	Johnson, O.	1971
28	10	Joiner, Brian L.	1973,n.d.
28	11	Jones, Byron	1986-1987
28	12	Jordan, Leon	1967-1980
28	13	Jordan, Leon	1974-1975
28	14	Jordan – Kempthorne	1966
28	15	Jowett, David	1962-1982
28	16	Kadane, Joesph B.	1975-1979
29	1	Kaiser, Henry F.	1959-1964
29	2	Kaiser, Lee D.	1987-1988
29	3	Kale, Balvant K.	1969-1985
29	4	Karlin, Sam	1964-1983
29	5	Karpinski, Kaz F.	1973-1974
29	6	Katti, S. K.	1963-1989
29	7	Keifer, Jack C.	1969,n.d.
29	8	Keifer, Jack C.	1976-1981
29	9	Kempthorne, Peter J.	1984
29	10	Kettenring, Jon	1984-1985
29	11	Kidwell, James F.	1962-1980
30	1	Kimura, Motoo	1969-1973
30	2	Kingman, J. F. C.	1981
30	3	Kinney, John James	1971-1975
30	4	Kinney, John James	1974

Box	Folder	Title	Dates
30	5	Kregyera, B.	1976
30	6	Kish, Leslie	1958-1972
30	7	Kline, Morris	1973
30	8	Klotz, Eugene A.	1972
30	9	Klotz, Jerome	1968
30	10	Koch, Gary G.	1979
30	11	Koch, Gary G.	1978-1986
31	1	Koehler, Kenneth J.	1977-1978
31	2	Koehler, Kenneth J.	1987
31	3	Koopmans, Lambert H.	1978-81
31	4	Kramer, Clyde Y.	1956-1962
31	5	Krishnaiah, P. R.	1965-1981
31	6	Krogman, W. M.	1973
31	7	Kruskal, Joesph B.	1968-1975
31	8	Kruskal, W. M.	1957-1973
31	9	Kruskal, W. M.	1973-1986
31	10	Krutchkoff, Richard G.	1971-1984
31	11	Kudo, Akio	1965-1966
31	12	Lakshmi	1978
31	13	Lambert, Diane M.	1984-1985
31	14	Lammers, Thomas A.	1969
31	15	Latter, B. D. H.	1970-1971
32	1	Latter, B. D. H.	1956-1969
32	2	Laubscher, F. X.	1957-1963
32	3	Le Cam, Lucien	1975
32	4	Le Clerg, Erwin L.	1954-1968
32	5	Lee, Moun Shen (Carl)	1982-1992
32	6	Lee, Moun Shen (Carl)	1984-1986
32	7	Lee, Moun Shen (Carl)	1986
33	1	Lee, Moun Shen (Carl)	1982

Box	Folder	Title	Dates
33	2	Lee, Youngjo	1981-1987
33	3	Lee, Youngjo	1981-1985
33	4	Lee, Youngjo	1983-1984
33	5	Leone, Fred C.	1961-1968
33	6	Levenbach, Hans	1971-1973
33	7	Levenspiel, Octave	1961-1965
33	8	Levikson, B.	1975-1976
33	9	Lewis, Jerry Wayne	1981-1985
33	10	Lewonton, Richard	1974-1984
33	11	Li, C. C.	1958-1983
33	12	Lin, Tin-Kwong	1970-1971
33	13	Lindley, Dennis V.	1968-1984
33	14	Lucas, H. L.	1959-1971
33	5	Mldha, Chand Krishan	1979-1983
34	1	Lush, Jay L.	1952-1954
34	2	Lush, Jay L.	1954-1974
34	3	Ma, R. H.	1979-1982
34	4	MacKay, Jack	1962-1972
34	5	Madow, W. G.	1951-1964
34	6	Malecot, G.	1972
34	7	Mallory, D. J.	1962-1972
34	8	Malone, Linda C.	1986
34	9	Maloney, Clifford Joesph	1970-1974
34	10	Mandel, S. P. H.	1961-1980
34	11	Mantel, Nathan	n.d.
34	12	Martin, Frank Burke	1965-1967
34	13	Mayo, Deborah	1983-1985
34	14	Mayr, Ernst	1964-1982
34	15	McGovern, Paul	1983
34	16	McGuire, Judsin U.	1975

Box	Folder	Title	Dates
34	17	Meeden, Glen D.	1962-1985
34	18	Meeden, Glen and Malay Ghosh	1970
34	19	Meier, Paul	1987
34	20	Mensing, Richard Walter	1973
35	1	Mexas, Abel Geber	1969-1978
35	2	Mexas, Abel G.	1969-1978
35	3	Mickey, Max Ray	1949-1982
35	4	Middleton, David	1964
35	6	Mike, Valerie	1978
35	7	Miller, M. Clinton	1973-1976
35	8	Mood, Alexander M.	1948-1957
35	9	Morley, F. H. W.	1951-1967
35	10	Morton, N. E.	1976-1981
35	11	Moses, Lincoln, E.	1964-1966
35	12	Nadkarni, M. G.	1973-1974
35	13	Magylaki, Thomas	1972-1974
35	14	Nagvi, Syed Taqi Mohammad	1966-1970
36	1	Narain, Prem	1976-1990
36	2	Nei, M.	1974-1977
36	3	Nelden, J. A.	1976
36	4	Neter, John	1980
36	5	Ney, Peter	1964-1975
36	6	Niknian, Minoo	1978-1980
36	7	Nikswanden, Jerry D.	1973
36	8	Nordskog, A. W.	1954-1981
36	9	Nouri, Esmat Moustafa	1952-1971
36	10	Nouri, Esmat Moustafa	1963-1973
36	11	Nouri, Esmat Moustafa	1964-1966
36	12	Novick, Melvin R.	1973-1974
36	13	Nuyman, J.	1953-1981

Box	Folder	Title	Dates
36	14	Nyquist, Wyman	1983
36	15	Odeh, Robert E.	1985
36	16	Odoom, S. I. K.	1976-1977
36	17	Ogawa, Junjiro	1973-1975
36	18	Okamoto, M.	1971-1974
36	19	Oktaba, W.	1959-1970
37	1	Olkin, Ingram	1974-1987
37	2	Osborn, Richard H.	1958-1986
37	3	Ostle, Bernard	1952-1987
37	4	Ottestad, Per	1972-1978
37	5	Owen, D. B.	1974-1982
37	6	Owen, D. B.	1974-1982
37	7	Owen, D. B.	1981-1985
37	8	Papaioannou, Panagiotis Constantine (Takis)	1968- 1970,n.d.
37	9	Papaioannou, Panagiotis Constantine (Takis)	1966-1982
38	1	Pareja, Gilda Piaggio	1976-1982
38	2	Pareja, Gilda Piaggio	1981-1987
38	3	Pareja, Gilda Piaggio	1974-1980
38	4	Parikh, Navin T.	1985
38	5	Parvin, K.	1974
38	6	Pauls, John	1955-1989
38	7	Pearson, E. S.	1985
38	8	Peixoto, Julio L.	1985
38	9	Pepeozak, Paul	1956-1959
38	10	Pereira, Carlos	1983-1988
38	11	Petenate, Ademir José	1981-1988
39	1	Peterson, R. E.	1953-1961
39	2	Pirchner, F.	1977-1984
39	3	Polking, John	1986

Box	Folder	Title	Dates
39	4	Pollack, Edward	1968-1972
39	5	Pollack-Kempthorne	1969-1970
39	6	Pratt, John W.	1972-1988
39	7	Pratt, John W.	1972-1988
39	8	Pratt-Soric	1988
39	9	Puri, Madan L.	1969-1989
39	10	Quian, Zai-Zhong	1988-1989
39	11	Raghavargo, Damarajo	1964-1967
39	12	Raghavargo, Damarajo	1973-1974
39	13	Raktoe, B. L.	1964
39	14	Ramos, Juan Enrique	n.d.
39	15	Rangachari, Lakshmi	1975-1988
39	16	Rangachari Problems	1977-1979
40	1	Rao, C. R.	1968-1988
40	2	Rao, Jonnagadda Nalini Kanth	1964-1982
40	3	Rao, S. R. S.	1975-1985
40	4	Rao, T. J.	1980
40	5	Rau, A. A.	1976
40	6	Rayner, A. A.	1956-1974
40	7	Rawson, Kenneth	1973
40	8	Razmpour, Ahmad	1977-1980
41	1	Redman, Charles E.	1979
41	2	Reich, Theodore	1973
41	3	Richards, Winston A.	1974-1986
41	4	Richards, Winston A.	1981-1984
41	5	Richards, Winston A.	1979,n.d.
41	6	Robsons, Douglas S.	1960-1968
41	7	Rojas, Basilio Alfonso	1956-1981
41	8	Rosenbaum, Paul R.	1983
41	9	Rosielle, A. A.	1976-1980

Box	Folder	Title	Dates
41	10	Roughgarden, J.	1980
42	1	Roux, Carl Ziervogel	1964-1990
42	2	Roux, Carl Ziervogel	1964-1990
42	3	Roux, Carl Ziervogel	1964-1990
42	4	Roux, Carl Ziervogel	1964-1990
42	5	Rowe, K.	1963
42	6	Rubin, D. B.	1978
42	7	Rustagi, Jagdish S.	1970-1981
42	8	Saad-Eldin, Saad-Eldin Mohammad	n.d.
42	9	Saad-Eldin, Saad-Eldin Mohammad	1978-1990
43	1	Sacks, Jerome M.	1986
43	2	Sampford, M. K.	1962-1967
43	3	Satterthwaite, F. E.	1958-1987
43	4	Savage, I. R.	1953-1983
43	5	Savage, L. R.	1975
43	6	Savage, Leonard J.	1971-1972
43	7	Scheffe, Henry	1955-1974
43	8	Scheinburg, E.	1971
43	9	Schuster, Don	n.d.
43	10	Scott, J. T.	1975
43	11	Scott, M.	1978-1979
43	12	Scott, Oliver C. A.	1986
43	13	Scudo, F. M.	1968-1969
43	14	Searle, S. R.	1957-1985
43	15	Sedcole, John Richard	1974-1979
43	16	Sedransk, Joesph	1973-1983
44	1	Seely, Justus Frandsen	1968-1981
44	2	Sehault, A.	1979-1983
44	3	Seiger, Marvin	1968
44	4	Seyffert, W.	1962-1982

Box	Folder	Title	Dates
44	5	Shah, B. V.	1959-1990
44	6	Silvis, David	1985
44	7	Singh, Daljit	1974
44	8	Smith, H. Fairfield	1952-1956
44	9	Smith, C. A. B.	1956-1989
44	10	Snedecor, G. W.	1956-1974
44	11	Snedecor, G. W.	1954-1970
44	12	Sotres, David A.	1974
44	13	Southward, M.	1976-1983
45	1	Speed, Terence P.	1978-1988
45	2	Speed, Terence P.	1984
45	3	Speed, Terence P.	1986
45	4	Sposito, Vincent Anthony	1973-1988
45	5	Sprague, G. F.	1957-1977
45	6	Springer, Basil G. F.	1970-1973
45	7	Srivastava, J. N.	1973-1990
45	8	Stamler, J.	1965-1973
45	9	Stanley, Julian C.	1953-1987
46	1	Stearns, Stephen	1981-1982
46	2	Steel, R. G. D.	1952-1960
46	3	Stephens, Michael A.	1973-1983
46	4	Stearn, Curt	1974
46	5	Stigler, Stephen	1984
46	6	Stini, W. A.	1968-1974
46	7	Stone, M.	1968-1983
46	8	Strahan, Robert F.	n.d.
46	9	Strand, Norman V.	1967
46	10	Strivastava, Jagdish N.	1977-1978
46	11	Stufken, John	1989
46	12	Styan, G. P. H.	1980

Box	Folder	Title	Dates
46	13	Sukhatme, B. V.	1977-1979
46	14	Sukhatme, Shashikala	1974-1980
46	15	Sutter, Gary	1961-1967
46	16	Swijtink, Zeno	1982-1983
46	17	Swindel, B. F.	1961-1975
46	18	Symanowski, James Thomas	1988-1989
46	19	Talukder, Mah	1973-1984
46	20	Tanur, Judith M.	1984
46	21	Taska, M.	1980-1981
47	1	Tasari	1959-1980
47	2	Tauber, O. E.	1956-1959
47	3	Thomas, D. R.	1965
47	4	Tinter, Gerhard	1967- 1977,n.d.
47	5	Tinter, Gerhard – Obituary	1978-1984
47	6	Thomas, Glenys J.	1971-1973
47	7	Thompson, D. J.	1949-1982
47	8	Thompson, Kenneth W.	1974
47	9	Thompson, Louis	1961-1980
47	10	Thompson, Robin	1973-1976
47	11	Thompson, Robin	1976-1986
48	1	Thompson, Robin	1971-1973
48	2	Throckmorton, Thomas Neil	1960-1968
48	3	Tick, Leo J.	1949-1961
48	4	Tukey, John W.	1953-1966
49	1	Tukey, John W.	1959-1960
49	2	Tukey, John W.	1955-1960
49	3	Tukey, John W.	1955-1962
49	4	Tukey, John W.	1967-1985
49	5	Turner, Helen N.	1968

Box	Folder	Title	Dates
49	6	Usprung, H.	1984-1985
49	7	Van Aarde, Izak Mauritz R.	1957-1965
49	8	Van Aarde, Izak Mauritz R.	1966-1973
50	1	Van Aarde, Izak Mauritz R.	1973-1976
50	2	Van Aarde, Izak Mauritz R.	1977-1990
50	3	Vardeman, Stephen B.	1982
50	4	Vetta, A.	1975-1977
50	5	Vetta. A.	1977-1981
50	6	Von Kroisgk, C. Max	1975
50	7	Waggoner, Paul	1952-1957
50	8	Wallace, B.	1977-1981
50	9	Wallis, W. Allen	1952-1958
50	10	Wani, Jagan	1975
50	11	Ward, Frances E.	1964-1968
50	12	Warde, William Douglas	1968-1972
50	13	Warde, William Douglas	1972-1979
50	14	Warren, Richard	1970
50	15	Watson, G. S.	1964-1987
51	1	Watterson, G.	1961-1973
51	2	Weber, Donald C.	1970
51	3	Webster, John T.	1982
51	4	Wegman, Ed	1978-1984
51	5	Weiler, H.	1955
51	6	Weir, Bruce	1985-1987
51	7	Weiss, Milton	1962-1966
51	8	Weissman, I.	1975-1980
51	9	Weng, Teng-Shan	1960-1962
51	10	West, Eric Neil	1967-1970
51	11	West, Eric Neil	1971
51	12	West, Eric Neil	1970-1978

Box	Folder	Title	Dates
52	1	White, Robert F.	1954-1972
52	2	White, Robert F.	1956-1966
52	3	White, Robert F.	1960-1974
52	4	White, Robert F.	1962
52	5	White, Robert F.	1962-1981
53	1	Weisen, John M.	1950-1958
53	2	Wilcox, O. M.	1951-1952
53	3	Wilcox, O. M.	1952-1954
53	4	Wilde, Douglass J.	1962-1984
53	5	Wilk, Martin B.	1953-1957
53	6	Wilk, Martin B.	1954-1955
53	7	Wilk, Martin B.	1956-1986
53	8	Wilkinson, G. N.	1977-1982
53	9	Williamson, Richard	1974
53	10	Wilson, Jeffrey Rupert	1981-1984
53	11	Wilson, Sue	1973-1979
53	12	Winger, Milton Eugene	1972
54	1	Woodbury, Max A.	1959-1972
54	2	Wright, Sewall	1939-1975
54	3	Wynn, Henry	1973
54	4	Yang, (Winston)	1975-1987
54	5	Yates, Frank	1943-1988
54	6	Yin, Young-Quan	1981-1982
54	7	Youden, W. J.	1955-1956
54	8	Yusuf-Mia, Mohammed	1967
54	9	Zahn, D. A.	1977-1978
54	10	Zelen, Marvin	1960-1973
54	11	Zellner, Arnold	1973-1975
54	12	Zellner, Arnold	1975-1978
54	13	Zerbe, Gary O.	1979-1980

Box	Folder	Title	Dates
54	14	Zieger, W. J.	1973
54	15	Zimmerman, G.	1978
55	1	Zoellner, J.	1953-1962
55	2	Zyskind, George	1970-1974
55	3	Zyskind, George	1974-1984
56	1	Miscellaneous Correspondence A	1954-1985
56	2	Miscellaneous Correspondence A	1962-1985
56	3	Miscellaneous Correspondence B	1954-1988
56	4	Miscellaneous Correspondence B	1964-1984
56	5	Miscellaneous Correspondence B	1952-1984
56	6	Miscellaneous Correspondence C	1947-1988
57	1	Miscellaneous Correspondence C	1952-1985
57	2	Miscellaneous Correspondence D	1950-1982
57	3	Miscellaneous Correspondence E	1962-1983
57	4	Miscellaneous Correspondence F	1963-1989
58	1	Miscellaneous Correspondence G	1960-1988
58	2	Miscellaneous Correspondence G	1950-1985
58	3	Miscellaneous Correspondence H	1949-1988
58	4	Miscellaneous Correspondence H	1958-1981
58	5	Miscellaneous Correspondence H	1960-1984
58	6	Miscellaneous Correspondence I & J	1949-1984
58	7	Miscellaneous Correspondence K	1971-1990
59	1	Miscellaneous Correspondence K	1961-1985
59	2	Miscellaneous Correspondence L	1965-1990
59	3	Miscellaneous Correspondence L	1950-1983
59	4	Miscellaneous Correspondence M	1970-1988
59	5	Miscellaneous Correspondence M	1962-1982
59	6	Miscellaneous Correspondence M	1963-1985
59	7	Miscellaneous Correspondence M	1957-1985
60	1	Miscellaneous Correspondence N	1966-1987

Box	Folder	Title	Dates
60	2	Miscellaneous Correspondence O	1960-1990
60	3	Miscellaneous Correspondence P	1958-1988
60	4	Miscellaneous Correspondence P	1967-1985
60	5	Miscellaneous Correspondence Q	1969-1970
60	6	Miscellaneous Correspondence R	1963-1987
60	7	Miscellaneous Correspondence R	1964-1985
60	8	Miscellaneous Correspondence S	1972-1987
60	9	Miscellaneous Correspondence S	1962-1982
61	1	Miscellaneous Correspondence S	1948-1985
61	2	Miscellaneous Correspondence T	1948-1989
61	3	Miscellaneous Correspondence U & V	1967-1986
61	4	Miscellaneous Correspondence W	1947-1987
61	5	Miscellaneous Correspondence W	1955-1980
61	6	Miscellaneous Correspondence W	1959-1982
61	7	Miscellaneous Correspondence X, Y, & Z	1956-1988
151	1	DeGroot, Dr. Morris H.	1984
151	2	Seely, Justus F.	1984
151	3	Henderson, Harold V.	1979
152	5	Riley, Edward F. – Holden Day Inc.	1968-1969
152	12	Richards, Dr. Winston A.	1991
152	41	Kruskal, William	1983
152	42	Kemphorne-Rawson, Joan	1993
153	1	Often, Walter W.	1988
153	2	Rothschild, Max	1988
153	3	Haslett, Steve	n.d.
153	9	Bailey, Rosemary A.	1986
155	7	Morrill, Bruce	1988
155	16	Shamsuddin, Dr. Md – 3n Circular Factorial Designs	1993
155	18	Urbach, Peter – The Value of Randomization and Control in Clinical Trials	1992

Box	Folder	Title	Dates
155	19	Mahoney, Clifford	1991
155	20	Good, Jack	1987
155	21	Rolodex	n.d.
155	23	Dawid, Philip	1984
155	24	Currow, R. N.	1983-1990
156	6	White, Robert F.	1978-1979
156	13	May, Robert M.	1986
158	8	Kempthorne, Peter – Personal	1980-1984
158	9	Kempthorne, Peter – Professional Correspondence	1971-1984
158	10	Arnold, Jesse	1970,n.d.
160	9	Bancroft, T. A. – Graduate Office, Various Correspondence	1970-1971
160	10	Roy, Chalmer J. (Dean)	1970-1971
160	11	Page, J. B. (Vice President)	1969-1970
160	12	Moore, Wayne – Finances & Contracts	1967-1969
160	13	Andre, Mahlstedde-Bean	1969-1970
160	14	Roy, Chalmer J.	1969-1970
163	2	Cady, Foster (Mexico) – File 1	1960- 1970,n.d.
163	3	Cady, Foster (Mexico) – File 2	1960- 1970,n.d.
166	27	Kempthorne, Peter	1984
166	28	Meyer, Dr. J. H.	1972
166	29	Kempthorne, Val	1987
166	30	Miscellaneous Correspondence – Dawid, A. P. and Oscar	1966,n.d.
166	31	Cosmos Club – Washington D.C.	1983
166	32	Bernstein, Robert R.	n.d.
166	33	White, Dr. Robert F.	1972-1989
166	34	Good, Jack and Brad Skarpness	1984-1989
168	19	Dawid, Jawett	1984
168	20	Istram, Saad	1984

Box	Folder	Title	Dates
168	21	Silvas, David T. W.	1984
168	22	Pareja, Gilda Piaggio	1983-1984
168	23	Ghosh, Subir	1983-1984
168	24	Rangachari, Lakshmi	1983-1984
168	25	Gabriel K. Ruben	1981
168	26	Cox, David F.	1983- 1984,n.d.
168	27	Lewis, Jerry W.	1982
168	28	Gabriel, K. Ruben	1982
168	29	Mervyn G. Marasinghe – Correspondence and Reprints “Analysis of Nonadditive Multi-way classifications	1989
168	30	Fisher, Sir Ronald A.	1954-1990
168	31	Warner, Carol	1979
168	32	Johnstone, David	n.d.
168	33	Jones, Byron – Correspondence and Using Bricks to Build Block Designs	1983
169	12	Jensen, Arthur R.	1984
170	9	Basu, D.	n.d.
170	10	Kimura, Matoo	1981
170	11	Wilk, Martin B.	1987
174	2	Renovation of Building R (Barracks) – Correspondence	1966
175	12	Friley, Charles E. – Biogenetics Conference	1952-1955
176	16	Fryer, H. C.	1985
177	2	Pirchner, F. Ph.D.	1984
177	4	Cox, David	1988
177	11	Nikman, Minoo	1983
177	12	Rojas, Basilio	1983- 1986,n.d.
177	13	Good, I. J.	1984,n.d.
177	15	Thompson, Donovan	1984
177	16	Strivastava, Jaya	1984

Box	Folder	Title	Dates
177	17	Kuznetsov, Vladimir P.	1993
177	21	DeGroot, Morris H.	1984
178	8	Lewis, Ralph W.	1984
182	11	Ruben, Gabriel K. – Correspondence & When is a Random Result Unfair	1981
182	21	Arnold, Barry (Mexico)	1968-1969
182	23	Hotchkiss, Donald K.	1966-1969
184	9	NSF – Kempthorne, Shah Correspondence	1960-1962
188	5	AES – Mahlstedt, Andre, Bean	1968-1969
188	6	Page, J. B. – Graduate Dean	1968-1969
188	7	Chalmer, Roy J. – Dean	1967-1968
188	8	Christensen, George C. – Vice President	1967-1968
188	9	Floyd, Andre – Dean; Mahlstedt, Dr. John	1967-1968
188	10	Page, J. B. – Vice President	1967-1968
188	11	Parks, Pres. – Christensen, Vice President	1966-1967
188	12	Page, J. B. – Vice President and Dean	1966-1967
189	1	Chalmer, Roy D.	1966-1967
189	2	AES – Andrew, Browning, Bean	1960-1967
189	3	Platt, B. H. – Vice President	1965-1966
189	4	Parks, Pres. – Christensen, Vice Pres.	1965-1966
189	5	Chalmer, Roy D.	1965-1966
189	6	Page, J. B. – Graduate Dean	1960-1961
189	7	Bear, Richard S. – Dean	1959-1961
189	8	Hixon, Graduate Dean	1959-1960
189	9	AES – Andre, Browning – Dean	1959-1960
191	7	Mexas, Abel	1969-1971
192	2	Casas, Eduardo (File 1)	1963-1971
192	3	Casas, Eduardo (File 2)	1963-1971
192	4	Correspondence with ISU Officials RE: Mexico Project	1963-1971,n.d.

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Introduced to design and analysis in university, the National Research Council awarded Dr. Kempthorne a research grant for further studies in a study entitled the Design and Analysis of Experiments in Research and Process Improvements.

Wright Air Development Center (WADC) bestowed numerous grants for one of Dr. Kempthorne's major research projects, Analysis of Variance. Also researched under the WADC were a Catalogue of Main-Effect Designs and Orthogonal Main-Effect Plans, Treatment of Errors in Comparative Experiments, Compounding of Gradient Error in the Method, Aspects of Constrained Randomization, Problem of Air Reconnaissance in the Presence of Decoys, Irregular Fractions of Factorial Experiments, Random Balance and Evaluation, and Random Consequences in Balanced Incomplete Blocks.

A complete chronological listing of his research activities is located in his biographical information in Box 1, page 8-9 of Oscar Kempthorne: The Iowa State University Record 1947-1989.

Container list

Box	Folder	Title	Dates
62	1	AFSOR Grant 78-3518 – Large Deviations of Function Markdown Transitions	1970
62	2	ARL 68-0119 – Grouping of Observations and the Wilcoxon Rank Test	1968
62	3	ARL 79	
62	4	Army Project Technical Reports	1958-1960
62	5	Bohidar's Program Results	n.d.
62	6	Bohidar's Program Results	n.d.
62	7	Cloud Seeding	n.d.
62	8	Doerfler's Size and Power	1965-1968
62	9	Experiment Station Project #1341 – The Analysis of Tillage Experiments	1958
62	10	Home Economics Experiments Station	n.d.
63	1	International Symposium on Biometrical Genetics	1955-1957

Box	Folder	Title	Dates
63	2	National Institute of Health (NIH) Grant – Correspondence	1972-1982
63	3	NIH Grant – General	1973-1976
63	4	NIH Grant – Manpower Report	1973-1977
63	5	NIH Grant – Research in Mathematical and Statistical Genetics	n.d.
63	6	NIH Grant – Research in Mathematical and Statistical Genetics (GM 13827-02)	1970
63	7	NIH Grant – Research in Mathematical and Statistical Genetics (GM 13827-06)	1971
63	8	NIH Grant – Research in Mathematical and Statistical Genetics (GM 13827-07)	1973
63	9	NIH Grant – Research in Mathematical and Statistical Genetics (GM 13827-08)	1974
63	10	NIH Grant – Research in Mathematical and Statistical Genetics (GM 13827-09)	1975
63	11	NIH Grant – Research in Mathematical and Statistical Genetics (GM 13827-10)	1976
63	12	NIH Grant – Research in Mathematical and Statistical Genetics (GM 13827-11)	1977
63	13	NIH Grant – Research in Mathematical and Statistical Genetics (GM 13827-12)	1978
63	14	NIH Grant – Research in Mathematical and Statistical Genetics (GM 13827-13)	1979
63	15	NIH Grant – Research in Mathematical and Statistical Genetics (GM 13827-14)	1981
63	16	NIH Grant – Research in Mathematical and Statistical Genetics (GM 13827-14)	1982
64	1	National Research Council (NRC) – The Design and Analysis of Experiments in Research and Process Improvements	1985
64	2	National Science Foundation (NSF) – Aspects of Simultaneous Inference	1973-1974
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64	4	NSF – General	1957-1959
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65	3	NSF – Genetic Crosses	1960-1967
65	4	NSF – Goodness of Fit (420-21-74)	1965-1969
65	5	NSF – Grant Application – Linear Models of Analysis of Variance	1970
65	6	NSF – Linear Models and Analysis of Variance Research Procedures	1968
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66	6	NSF – Searle	1973
66	7	NSF – Structures of Classification	1958-1961
66	8	Office of Naval Research (ONR) – European Scientific Notes	1960-1962
66	9	ONR – General	n.d.
66	10	ONR – General	1958-1962
66	11	ONR – Technical Reports	1960
66	12	Study of Quantitative Inheritance	1960
66	13	Symposium on Biometrical Genetics	1958
67	1	Throckmorton, Thomas N. – Thesis Diagram	1960
67	2	Tukey, John W. – Statistical and Quantitative Methodology	1959
67	3	Wright Air Development Center (WADC) 33(615)-69-C-1046 –Proposal	1968
67	4	WADC 33(615)-C-1343 Analysis of Variance and Experimental Design Research Procedures	1968-1969

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67	5	WADC 33(615)-C-1343 – Analysis of Variance and Experimental Design Research Procedures: Progress Report	1968-1969
67	6	WADC 33(615)-69-R-1311 – Synthesis and Fundamental Properties	1968
67	7	WADC 33(615)-70-R-1459 – Analysis of Variance	1969
67	8	WADC 33(615)-1713 – General	1964
67	9	WADC 33(615)-1713 – Research on Analysis of Variance Procedures and Related Topics: Progress Report	1964
67	10	WADC 33(615)-1737 – Analysis of Variance Procedures and Related Topics: Progress Report	1965-1967
67	11	WADC 33(615)-1737 – General	1964-1965
67	12	WADC 33(615)-1737 – General	1966-1971
67	13	WADC 33(615)-1737 – Missing Value Procedures	1966
67	14	WADC 33(615)-1737 – On Unbiased Estimation in Variance Component	1966
67	15	WADC 33(615)-1737 – Research on Analysis of Variance and Data	1965
67	16	WADC 33(616)-2145 – Analysis of Variance: Preliminary Tests, Pooling	1956
67	17	WADC 33(616)-2418 – Research on Transformation in Analysis of Variance	1954
67	18	WADC 33(616)-3878 – Research on Transformation in Analysis of Variance: Progress Report	1957
67	19	WADC 33(616)-5599 – Analysis of Variance Procedure: Contract and Supplements	1958-1961
67	20	WADC 33(616)-5599 – Business Office	1958-1961
67	21	WADC 33(616)-5599 – Catalogue of Main-Effect Designs	1959
67	22	WADC 33(616)-5599 – Catalogue of Main-Effect Designs	1960
68	1	WADC 33(616)-5599 – General	1959
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68	6	WADC 33(616)-5599 – Random Balance and Evaluation	1959
68	7	WADC 33(616)-5599 – Report of Work	1960
68	8	WADC 33(616)-5599 – Research on Analysis of Variance Procedures: Progress Report	1958-1960
68	9	WADC 33(616)-5599 – Research Proposal	1961
68	10	WADC 33(616)-5599 – Some Main-Effect Plans and Orthogonal Arrays of Strength Two	n.d.
68	11	WADC 33(616)-5599 – Some Random Consequences in Balanced Incomplete Blocks	n.d.
68	12	WADC 33(616)-5599 – Treatment Errors in Comparative Experiments	1959
68	13	WADC 33(616)-5599 – Treatment Errors in Comparative Experiments	1960
68	14	WADC 33(616)-8269 – Compounding of Gradient Error in the Method	1963
68	15	WADC 33(616)-8269 – General	1961-1964
68	16	WADC 33(616)-8269 – Progress Report	1961
68	17	WADC 33(616)8269 – Some Aspects of Constrained Randomization	1961
68	18	WADC – ARL Technical Reports	1962-1971
69	1	WADC – Analysis of Variance: Preliminary Tests, Pooling and Linear Models	1956
69	2	WADC – Comparison of an Error: Correcting Eight-Unit Code	1959
69	3	WADC – General	n.d.
69	4	WADC – General	n.d.
69	5	WADC – Harter & Lum: A Note on Tukey's One Degree of Freedom for Non-Additivity	n.d.
69	6	WADC – Preparation of ARDC Technical Document Reports	n.d.
69	7	WADC – Proposed Research	1965-1967
69	8	WADC – Statistics 401-21-(05-09)	1967-1972

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153	32	NSF Grant & Project 890: Model, Linear Models and Fitting Procedures	1973
159	1	NSF – Hartley GP-274 – Contract	1962-1966
159	2	NSF GP-1155 Huzurbazar	1964
159	3	NSF GP-1855 Bancroft	1963-1965
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159	5	NIH Supply Award – Francis Ward	1966-1967
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160	3	NSF G-14237 Budget Statement	1964
160	4	NSF – Kempthorne “Optimization” Budget Statement	1962-1964
160	5	NSF – Kempthorne Budget Statement	1962
160	6	NSF G-16491 “Genetics” Budget Statement	1961-1963
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160	8	US Army RES – Budget Statement	1962-1964
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161	22	Stat Lab – Annual Reports	1956
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162	1	NSF Bancroft – Kale GP-5688 (File 1)	1966- 1968,n.d.
162	2	NSF Bancroft – Kale GP-5688 (File 2)	1966- 1968,n.d.
162	3	NSF Kudo – GP-6144	1966-1968
162	4	NSF Bancroft – Includes Spec. Models	1963- 1965,n.d.
162	5	NSF – David – Random Walk GP-6013	1965-1967
162	6	NSF – Proposal for Dr. Mehra	1967-1969
162	7	NSF – Proposal – Dr. Geo. Zyskind	1968
162	8	NSF – Proposal – Waynce Fuller	1960-1968
162	9	NSF – Proposal – Hinz	1970
162	10	NSF – Proposal – Dr. Okamoto	1967-1969
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172	4	AES – NIH Research Contract 430-43-57-18-1969	1969
172	5	AES – NIH Research Grant 430-44-84-18-1969	1970-1971
172	6	OEC Grant – Department Budget Statement, Contract	1970-1973
172	7	NSF – GP5688: Budget Statements (Bancroft)	1967-1968
173	1	HEW – 431-21-02 (Bancroft & Sedransk): Budget Statements and Contract	1969-1970
173	2	AES – NIH 430-44-29-81-1669: Department Budget Statements	1969-1973
173	3	NIH Training Grant (Bancroft) 430-21-96	1970-1973
173	4	Hans Thoni-PHS Fellowship 430-22-01	1966-1967
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173	6	U.S. Post Office Dept. “Wolins” 401-21-01: Department Budget Statement	1966-1967
173	7	NSF – 420-21-25 (Kudo): Budget Statement	1965-1966
183	5	NSF – Undergraduate Residence Program	1962-1963
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183	7	NSF – Traineeship Proposal	1964-1965
183	8	NSF – Summer Institute in Statistics	1961- 1962,n.d.
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Description of series

Series 4 **Professional Organizations, Conferences, and Travel** **1950-1990,n.d.**

extent: 3.008 linear ft. (361 folders)
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description: Included in this portion of Oscar Kempthorne's records are his various travel activities, participation in conferences and professional organizations. He toured extensively throughout the United States, Australia, India, Egypt, and Brazil, lecturing and teaching on assorted topics. He belonged to various professional organizations including the American Associations for the Advancement of Science (AAAS), American Statistical Association (ASA), American Association of University Professors (AAUP), American Mathematical Society (AMS), Conference Board of the Mathematical Sciences (CBMS), Committee of the Presidents of Statistical Societies (COPPS), Institute of Mathematical Sciences (IMS), and the International Statistics Institute (ISI).

In 1952, only a year after his promotion to full professor, Dr. Kempthorne helped organize a five and half week Biostatistics Conference co-sponsored by the Biometric Society (ENAR), bringing together biologists, statisticians, and mathematicians and concluding with lectures by Sir Ronald A. Fisher. Proceedings of the conference partially edited by Dr. Kempthorne, were published in 1954 as Statistics and Mathematics in Biology.

Dr. Kempthorne held short-term visiting professorships as part of the Visiting Lecture Program. His temporary posts included Oklahoma State, the University of Buenos Aires, Stanford, the University of Washington, Florida State, and Virginia Polytechnic Institute. As well as temporary professorships, Dr. Kempthorne lectured at various institutions as part of the Visiting Lecture Program. The collection includes miscellaneous lectures from North Dakota, Wisconsin, and Missouri. Sponsored by the American Statistical Association, a program of Visiting Lecturers in Statistics may be found in box 70/3 for 1971-1972. Other information concerning the Visiting Lecture Program can be located in boxes 70/3, 104/2 and 119/6 or under the location visited.

In 1968, Dr. Kempthorne helped establish Mu Sigma Rho, a national statistics honorary and served as the National Director. He initiated chapters at Colorado State University in 1973 and Oklahoma State University in 1974.

Oftentimes Dr. Kempthorne traveled abroad to attend conferences or deliver lectures and was invited to participate or speak in India, Australia, Egypt, and Brazil. In 1974, Dr. Kempthorne was an invited member to the inauguration of the New Delhi campus of the Indian Statistical Institute with the commencement presentation performed by Mrs. Indira Gandhi, Prime Minister of India. Following the presentation he attended tea with the Prime Minister. The files consist of newsletters, seminar and symposium materials, lists, letters, photographs, prizes and correspondence.

Oscar Kempthorne was instrumental in planning and arranging the International Conference on Quantitative Genetics held in Ames, Iowa August 1976. The collection includes information regarding committees, meetings, correspondence, proposals, memos, speakers and was presented a scrapbook complete with photos of the event. Edward Pollak, Oscar Kempthorne, and Theodore B. Bailey Jr., edited the minutes for the official record published in *Proceedings*, 1977 (box 120/17). Further information on the conference, grants, articles, and lectures can be found interspersed throughout the collection in boxes 90/18, 101/15, 115/15, 116/1, 116/2, 116/3, 120/17, 121/11, 127/23, 128/3.

Dr. Kempthorne visited Australia in July 1978 and presented a series of papers to various Australian institutions including: Adelaide University, Flinders University, Monash University, Melbourne University, the Melbourne Statistical Society, La Trobe University, University of New South Wales, University of Sydney and the Sydney Statistical Society. He also addressed the Australian Statistical Conference with his Knibbs Lecture "Foundations of Statistical Thinking and Reasoning."

Oscar Kempthorne co-organized and served as Conference Director of the 1979 Kingman Conference. J. F. C. Kingman, Professor of Mathematics, University of Oxford, England, delivered a series of ten lectures entitled "Aspects of Mathematical Population Genetics" for the Mathematical Sciences Regional Conference, funded by the National Sciences Foundation and held at Iowa State.

The files contain information on expenses, correspondence, committee notes, reimbursements, reprints of articles and returned forms.

Dr. Kempthorne began his term as President of IMS in August, 1984 at an annual meeting at Lake Tahoe, California and completed his term in August 1985, at the fiftieth anniversary meeting of IMS in Las Vegas, Nevada. During his term he organized and chaired a Special 50th Annual Session, presenting "Origins and Early Days of IMS." Following his term as president he continued to serve on the Executive Committee as Past President of IMS. The files consist primarily of information from his duration as president. The miscellaneous information includes annual reports, appointments, bulletins, committees, councils, conferences, lecturers, grant proposals, papers, surveys, the treasury, publications, manuals, and meetings.

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70	1	American Journal of Human Genetics	1954-1969
70	2	American Mathematical Society	1966-1970
70	3	American Statistical Association (ASA)	1966-1971
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70	7	ASA – Nomination for Fellow	1983
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72	8	Ann Arbor, Michigan – Conference on Craniofacial Growth: The Statistical Treatment of Data with Genetics	1968
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73	3	Atlanta – Joint Statistics Meeting	1975
73	4	Australia – University of Melbourne Statistical Seminar	1978-1980
73	5	Australia – CSIRO-dms Newsletter	1975-1984
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73	8	Bell Laboratories	1971-1973
73	9	Berkeley – Symposium	1965-1967
73	10	Biometrics Correspondence	1952-1960
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75	1	Carleton University, Ottawa Canada	1972-1981
75	2	Carvalho, Jose Ferreira	1984
75	3	Chapel Hill, North Carolina	1966-1968
75	4	Chapel Hill, North Carolina	1977
75	5	Colorado	n.d.
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75	10	College of Sciences and Humanities	1963-1968
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76	4	Committee on the Undergraduate Program in Mathematics and Newsletter	1962-1970
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76	6	CBMS	1984-1985
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76	10	CBMS – Regional Conference: Pictures and Negatives	1979

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77	1	Committee of the Presidents of Statistical Societies (COPSS)	1969-1975
77	2	COPSS	1984-1986
77	3	COPSS – President’s Award	1984-1985
77	4	Cornell	1978-1980
77	5	Current Index to Statistics (CIS) – Management Committee	1984-1985
77	6	CIS – MathSci	1985
77	7	Data Analysis Seminar – Colorado	1967
77	8	Data Analysis Seminar – Colorado	1970-1971
77	9	Dean’s Committee	1966-1968
77	10	Dayton, Ohio – Second International Symposium on Multivariate Analysis	1967-1968
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77	12	Department of Statistics	n.d.
77	13	Department of Statistics	1961-1966
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78	1	Department of Statistics	1973-1975
78	2	Department of Statistics	1976-1984
78	3	Department of Statistics – Annual Reports	1972-1982
78	4	Detroit – Annual Meeting of the Allied Social Science Association	1970
79	1	Eastern Seminar	1970
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79	8	Examination of an Inventory Model Incorporating Probabilities of Obsolescence	n.d.
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79	10	Faculty Development Committee	1978-1980
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80	4	Gainesville, Florida	1987
80	5	Genetics	1973
80	6	Genetic Probability and Statistics – Notes of a Seminar given at Stanford	1964
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81	9	Grinnell College – American Statistical Association Meeting	1977
81	10	Hartley Festschrift	1976-1977
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82	11	Institute of Mathematical Sciences (IMS) – Ad Hoc Committee of European Meetings	1985
82	12	IMS – Annual Report	1984
82	13	IMS – Appointments	1984
82	14	IMS – Bulletin	1984-1985
82	15	IMS – Business Meeting	1984-1985
82	16	IMS – Business Oversight Committee	1984
83	1	IMS – Committee on Fellows	n.d.
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84	9	IMS – Fiftieth Anniversary	1984
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87	4	IMS – Representative to AAAS	1984-1985
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87	10	IMS – Subcommittee of the Joint Committee from Translations from Russia and Other Foreign Languages	1985
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87	14	IMS – Instructions for Preparation of Manuscripts for Direct Reproduction	n.d.
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87	16	International Conference on Quantitative Genetics – Brochure Inquiries	1976

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87	19	International Conference on Quantitative Genetics – Committee Reponses	1976
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88	1	International Conference on Quantitative Genetics – Correspondence	1975-1976
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88	20	ISI 1969-70	1947-1968
89	1	ISI 1971-1979	
89	2	Iowa City	1969
89	3	Iowa State University Press	n.d.
89	4	Iowa State University Press	1968-1971
89	5	Iowa State University Press	1972-1982
89	6	Ithaca, New York – Federer Conference	1985-1986
89	7	Journal – Annals of Mathematical Statistics (JAMS)	1959-1961
89	8	Journal – Communications in Statistics (JCIS)	1971-1973
89	9	Journal of the American Statistical Association (JASA)	1965-1982
89	10	Journal Submissions	n.d.
89	11	Journal of Statistical Planning and Inference (JSPI)	1975-1988
89	12	JSPI	1976-1982
90	1	JSPI – Gbur and Sielken	1982-1983
90	2	JSPI – Genzi, it al.	1981-1983
90	3	JSPI – Gupta	1987
90	4	JSPI – Herzberg	1976-1978
90	5	JSPI – Rao and Bellhouse	1979-1977
90	6	K-65	n.d.
90	7	Kingman Conference – Additional Local Expenses	1979
90	8	Kingman Conference – Correspondence	1979
90	9	Kingman Conference – Correspondence	1979
90	10	Kingman Conference – Early Committee Notes	1978-1979
90	11	Kingman Conference – General	1979

Box	Folder	Title	Dates
90	12	Kingman, J. F. C.	1978-1980
90	13	Kingman Conference – Reimbursement	1979
90	14	Kingman Conference – Reprint	1976
90	15	Kingman Conference – Returned Forms	n.d.
90	16	Krieger Publishing	1973-1975
90	17	Las Cruces, New Mexico – Visiting Lecture Program	1971-1978
90	18	Letter – International Conference on Quantitative Genetics	1975
91	1	Letters to Industry	1976
91	2	London, Ontario	1973-1975
91	3	London, Ontario – Papers	1973
91	4	London, Ontario – Papers	1973
91	5	Madison, Wisconsin – Seminar	1966
91	6	Melbourne, Australia	1986
91	7	Minnesota	n.d.
91	8	Miscellaneous Papers	n.d.
91	9	Montreal, Quebec	1972
91	10	Montreal, Quebec	1980-1982
91	11	Mu Sigma Rho	1968-1976
91	12	Mu Sigma Rho	1977-1985
91	13	National Science Foundation	1976
92	1	Nebraska	1977
92	2	New Methods Course	1973
92	3	New York	1969
92	4	New York	1970-1973
92	5	Notes from Stanford	1964
92	6	Ohio	1979-1980
92	7	Optimization	1987
92	8	Original List	1975
92	9	Pennsylvania	1973
92	10	Princeton, New Jersey	1977

Box	Folder	Title	Dates
92	11	Proceedings	1979
92	12	Quantitative Genetics	1959-1982
92	13	Raleigh, North Carolina	1981
92	14	Randomization	1978-1980
92	15	Royal Statistical Society	1990
93	1	San Diego, California	1978
93	2	San Diego, California – On Inference and Estimation from a Sample Surveys	1978
93	3	Science – Journal	n.d.
93	4	Seminars	1978-1981
93	5	Seminars	1982-1985
93	6	Seminar – Genetic Probability and Statistics: Notes	n.d.
93	7	Seminar – Miscellaneous	1962-1976
93	8	Simon Fraser University	1974-1975
93	9	Some Properties of Steepest Ascent	1961
93	10	Statistical Laboratory	1950-1962
93	11	Statistical Laboratory – Fiftieth Anniversary	1981-1983
94	1	Statistical Laboratory – Mission	1987
94	2	Statistical Science	1984
94	3	Statistics Faculty	1980-1985
94	4	Statistics Faculty	1976-1979
94	5	Statistics Faculty	1972-1975
94	6	Tahoe Paper and Assorted Items	1987-1990
94	7	Tallahassee Weather Workshop	n.d.
94	8	Tallahassee Weather Workshop	n.d.
95	1	Tallahassee Weather Workshop	1969-1977
95	2	Tallahassee Weather Workshop	1977
95	3	Tallahassee Weather Workshop	1978
95	4	Tallahassee Weather Workshop	1978
95	5	Tallahassee Weather Workshop	1978

Box	Folder	Title	Dates
95	6	Tallahassee Weather Workshop	1978
96	1	Tallahassee Weather Workshop	1978-1982
96	2	Tallahassee Weather Workshop – An Interpretive History of Thirty Years of Weather Modification	1978
96	3	Tallahassee Weather Workshop – Reprint File	1978
96	4	Theoretical Population Biology (TPB)	1970-1977
96	5	Toronto, Ontario	1981
96	6	University of Washington, Seattle	1974
96	7	Virginia Polytechnic Institute – Miscellaneous	1984
96	8	Visiting Lecture Program	1974-1976
96	9	Visiting Lecture Program – Grand Forks and Fargo, ND	1976
96	10	Visiting Lecture Program – Green Bay, Wisconsin	1976
96	11	Visiting Lecture Program – St. Louis, Missouri	1975-1976
96	12	Washington, D.C.	1967
96	13	Washington, D.C.	1979
96	14	Washington, D.C. – AAAS	1981-1982
97	1	Waterloo, Ontario	1968-1970
97	2	Waterloo, Ontario	1973
97	3	Waterloo, Ontario	1979
97	4	Weather Modification	1955
97	5	Weather Modification	1959-1960
97	6	Weather Modification	1961
97	7	Weather Modification	1962-1963
98	1	Weather Modification	1966-1981
98	2	John Wiley and Sons	1960-1990
98	3	Wilks Award	1965-1970
98	4	Wilton Park	1971
152	6	Royal Statistical Society – Dr. Nelder	1976
155	13	Atkinson, A. C. – ASA Meeting in Toronto	1983
155	14	ASA Meeting in Toronto	1983

Box	Folder	Title	Dates
155	15	IMS / Biometric Society Meeting in Tennessee – Memorabilia	1951
166	35	SREB Summer Research Conference – Schedule	1974
166	36	Wilton Park International Service Award – Order of Ceremony	1990
166	37	Consultation Visit – White, Robert F.	1972
166	38	International Conference on Quantitative Genetics	1976-1977
166	39	Rochester, NY – Seminar: Data Analysis: Old or New?	1982
166	40	ASA Meeting – Discussion of Social Experimentation	1973
169	5	Committee of Presidents of Statistical Societies	1982-1983
169	10	ASA – Building and Development Fund	1984
169	15	Cincinnati – Joint Statistical Meetings – “Biometry: The Pearson and Fisher Controversies”	1981-1982
169	16	Virginia Polytechnic Institute – Seminars	1983-1984
170	1	Virginia Polytechnic Institute – Science Club	1984
175	13	Food and Agriculture Org. of UN	1954-1956
177	10	1984 ASA Board of Directors	1984
177	14	Trip to Ames (Kempthorne)	1984
177	18	International Conference on Quantitative Genetics (Brochure)	1976
177	20	ASA Meeting – Toronto	1983

Description of series

Series 5 **Research and Teaching Related Materials** **1948-1987, n.d.**

extent: 1.456 linear ft. (175 folders)
Boxes 98-104, 151-153, 155-156, 158, 162, 166-167, 169-171, 174, 177, 179-183, 188, 193

description: While at Iowa State University, Dr. Kempthorne taught over one hundred courses from 1946 until 1989. His class schedule included courses on the Design of Experiments I and II; Theory and Application of Linear Models; Theory of Statistics; Distribution Theory; Probability and Hypothesis; Genetic Statistics; Biological Statistics and Theory of

Estimation and Testing of Hypothesis. Also included are authorizations for publications, Masters and Ph.D. examinations, course work materials, worksheets, and assorted research materials.

Container list

Box	Folder	Title	Dates
98	5	Abian, Alex – Notes on the Russel Paradox	1980
98	6	Algebraic Structures	1977
98	7	Analysis of Covariance	1977
98	8	Analysis of Variance and Experimental Design Research Procedures – Interim Summary	1969
98	9	Analysis and Variance – RFW	1963-1970
98	10	April Preliminaries	1984
98	11	Authorization for Submission of Papers to Scientific and Professionals Journals	1973-1976
98	12	Authorization for Submission of Papers to Scientific and Professional Journals	1977-1984
98	13	Awards	1975-1976
98	14	Biometrics – Special	1978
98	15	Bodmer – Genetics 301	1964
98	16	Class of Problems in Stochastic Process	n.d.
99	1	Composite Question – An Answer	n.d.
99	2	Confidence Interval Procedures	1977
99	3	Designs	n.d.
99	4	Eccles, John – The Sciences	1978
99	5	Elemental Question	1973
99	6	Examination of an Unknown Function Over an Interval	1966
99	7	Financial Statements	1986
99	8	GM Linear Model with Conditions on the Parameters	1979
99	9	Growth of a Population	n.d.
99	10	Half-Normal Plotting	1974
99	11	Heredity and Environment	1977

Box	Folder	Title	Dates
99	12	Informative Example on Inference	1976
99	13	International Statistical Institute	1970-1971
99	14	International Statistical Institute	1966-1972
100	1	IQ and Race – Reminder Sheet	1977
100	2	Kantorovich's Inequality	1959
100	3	Kemphorne Papers	1956-1976
100	4	Least-Squares Analysis of Data	1960
100	5	Least-Squares Theory Simplified	1976
100	6	List of Files on Disks	1985
100	7	Master for American Society of Zoologists	1973-1983
100	8	Masters of Science Exam	1985
100	9	Mathematical Method in Biology	1963
100	10	Mathematical Method in Biology	1963
100	11	McQuity, Dr. Louis L.	1952-1953
100	12	McQuity, Dr. Louis L.	1953
100	13	Methods I – Questions and Answers	n.d.
100	14	Mivque	1978
100	15	Miscellaneous Correspondence – Research Journals	1958-1976
101	1	Miscellaneous Correspondence – Research Journals	1972-1977
101	2	Mullikan, Tom	n.d.
101	3	Nebraska and North Carolina Seminar Masters	1977
101	4	Nelder, J. A.	1975-1976
101	5	Notes on Algebraic Structures	1977
101	6	Notes on Moment Generating Functions	1978
101	7	Notes on RML for the Mixed Model	1976
101	8	Office of Naval Research – Weather	1978
101	9	Oktaba, Wiktor – Report	n.d.
101	10	Orthogonal Polynomials	1958
101	11	Parzen Time Series Notes	n.d.
101	12	Ph.D. Preliminary Questions and Answers	1984

Box	Folder	Title	Dates
101	13	Ph.D. Preliminary Questions and Answers	1985
101	14	Progress Report 5,7,8 0 Analysis of Variance and Experimental Design Research Procedures	1969
101	15	Quantitative Genetics – Stanford Notes	n.d.
101	16	Research on Analysis of Variance Procedures – Interim Technical Reports	1958-1960
101	17	Robinson, John	1978
101	18	Schmidt, Joe	1966-1967
101	19	Science	1975-1977
101	20	Selfing Tetraploid with DR	n.d.
101	21	Simultaneous Inference via Bonferroni	1982
101	22	Slides – Figures	n.d.
101	23	Smith, Lee H.	1962-1963
102	1	Statistics	n.d.
102	2	Statistics	n.d.
102	3	Statistics 511	1950-1985
102	4	Statistics 511	1974
102	5	Statistics 511	1980
102	6	Statistics 511	1980
102	7	Statistics 511	1983
102	8	Statistics 511 – Additional Notes for Students	1978
102	9	Statistics 511 – Preliminary Questions for Fall and Spring	1985-1986
102	10	Statistics 512 – Classbook	n.d.
102	11	Statistics 512 – Design Experiments: Preliminary Assignments	n.d.
102	13	Statistics 512 – Notes for Students	n.d.
102	14	Statistics 590C	1973-1977
103	1	Statistics 590C	1976-1977
103	2	Statistics 611	1982
103	3	Statistics 649	n.d.
103	4	Statistics 661	1978

Box	Folder	Title	Dates
103	5	Summer Institution	1957
103	6	Summer Institution	1957
103	7	Theory of Equations, Determinants, Matrices and Quadratic Forms	1972
103	8	Tischer, R. G.	1951-1952
103	9	Tischer, R. G.	1952-1953
103	10	Two Times Two Contingency	1977
104	1	Two-way Mixed Linear Model	1975
104	2	Virginia Polytechnic Institute – 1984 Course Duplicate	1984
104	3	Warde, William Douglas	1972
104	4	Weak and Strong Law of Large Numbers	1979
104	5	Worksheets – Stanford	n.d.
151	17	On the Derivation and Characterization of Certain Distributions	n.d.
151	18	Quantitative Genetics I	n.d.
151	26	The Method of Steepest Ascents and Related Topics: Notes	1976
151	28	Inference	n.d.
151	29	Assortative Mating at one Diallelic Locus	n.d.
151	32	Minimal Statistic in Finite Sampling	1977
151	33	The Abstract Integral	n.d.
151	42	Lee, Young Jo – Chapter 4	n.d.
152	2	Prediction of Z	n.d.
152	8	Design of Experiment Notes	1987
152	9	Project 890: BLUE with arbitrary V	1976
152	10	Mixed Linear Models and Incomplete Block Designs – Project 890	1976
152	11	Ideas on Selection Indices	1974
152	22	Variance Between & Written Lines	n.d.
152	25	Jordan Canonical Form	n.d.
152	36	Example that Illustrates Differences Between Tests of Significance and Tests of Hypotheses (Neyman-Pearson)	1983

Box	Folder	Title	Dates
152	37	Calculus – Spivak	1971
152	43	The Least Squares Inverse of X and Notes	1986
153	18	Miscellaneous Notes	n.d.
153	27	Notes on Suffixes, Indexed Variables	1974
153	31	Notes on the Elementary Syllogism	n.d.
155	10	What is the Role of Intention? – Notes	n.d.
155	25	Derivations of the Wishart Distribution	n.d.
156	8	Miscellaneous Notes	n.d.
158	1	B. K. Kale “Lecture Notes on Non-Parametric Statistical Inference	1965
158	2	Shah, Buehler, Kempthorne “The Method of Parallel Tangents (Partan) for Finding an Optimum	1961-1962
158	3	David A. Harville “Optimal Procedures for Some Constrained Selection Problems – Aerospace Research Laboratories (ARL)	1974
158	4	Statistics 611	1986
158	5	Statistics 611	n.d.
158	6	Statistics 511	n.d.
158	7	Grant Review – Feinberg	1984
162	3	Proposal: Design and Interpretation of Experiments Using Crosses of Genetic Material	1961
162	5	Proposal: Role of Errors of Parameter Estimation in Index Selection	1961
162	13	Progress Report on Monte Carlo Study of Genetic Selection	1963
166	41	Statistics 611 – Exams and Notes-1	1980- 1986,n.d.
166	42	Statistics 611 – Exams and Notes-2	1980- 1986,n.d.
167	1	Statistics 511 – Exams and Notes	1969- 1988,n.d.
167	2	Statistics 512 – Notes and Lecture	1969- 1979,n.d.
167	3	Statistics 612 – Notes	1986

Box	Folder	Title	Dates
167	4	Statistics 641 – Notes and Exams	1970- 1980,n.d.
167	5	Statistics 643 – Notes	n.d.
167	6	Miscellaneous Notes for Students	1973- 1986,n.d.
167	8	Carvalho Notes	n.d.
167	9	The Nature and Role of Ancillary Statistics	n.d.
169	22	Statistics 641 – Notes of Dr. Kempthorne by M. B. Wilk with Supplemenation	n.d.
170	4	Statistics 590B	1975
170	5	Ancillary II	1983
171	1	Modern Algebra	1974
171	2	Linear Algebra	1968
171	3	General Topology	1965
171	4	Lectures on the Theory of Functions of Real Variables	1948
171	5	Real Variables	1969
171	6	Complex Variables	n.d.
171	7	Notes on Pearce, Caluski, and Marshall	n.d.
171	8	Bose & Mesner “On Linear Association Algebras Corresponding Association Schemes	n.d.
171	9	Statistics 641	n.d.
171	10	Research in Mathematical and Statistical Genetics #GM13827-07	1973
171	11	UP – PRJ Borch – Smoking and Lung Cancer	1984
171	12	Statistics 649	n.d.
174	1	Misc. Accounting	n.d.
177	5	Statistics 611 – Notes, Exams (Pt. 1)	1986,n.d.
177	6	Statistics 611 – Notes, Exams (Pt. 2)	1986,n.d.
177	7	Statistics 611 – Notes, Exams (Pt. 3)	1986,n.d.
177	8	Wayne Fuller’s Notes	n.d.
177	9	A Note On Orthogonal Designs (Stufken, John)	n.d.

Box	Folder	Title	Dates
179	5	Theory of Equations, Determinants, Matrices, and Quadratic Forms	1972
179	6	Statistics 642 – Lecture Notes on Measure Theory and Probability (Kale, B. K.)	n.d.
180	2	Statistics 649, 661 – Notes (File 1)	n.d.
180	3	Statistics 649, 661 – Notes (File 2)	n.d.
180	4	Statistics 649, 661 – Notes (File 3)	n.d.
180	5	Notes on Getting Minimum Variance	1978
180	6	Genetics of Populations (Lush, Jay L.)-1	1948
180	7	Genetics of Populations (Lush, Jay L.)-2	1948
181	1	3rd Party Notes -1	1987
181	2	3rd Party Notes -2	1987
182	20	Policies on ISU-Ford Foundation Project	1967-1970
182	22	Mexico Project – Reports	1965-1968
183	1	ISU-Ford Foundation Reports	1968-1969
183	2	Mexico Project – Reports (2)	1967-1970
183	3	Mexico Project – Final Report	1970
183	4	Mexico Project – Financial Statements, Travel and Expenses	1967-1970
188	2	Grassley Questionnaire Project	1970,n.d.
193	1	ISU: Faculty and Staff Directory	1965-1966
193	3	Miscellaneous 5.25 Floppy Disks	n.d.

Description of series

Series 6	Scientific Subject File	1941-1982,n.d.
extent:	2.372 linear ft. (285 folders) Boxes 104-119, 152-153	
description:	The Scientific Subject file provides the foundation for many topics upon	

which Dr. Kempthorne researched, wrote, taught, advised, and lectured. Some central topics include Analysis of Covariance with reference to DeLury, Federer, Hartley, Smith and Zelen; the Computation Center at Iowa State University, Errors in Observation, Design and Analysis, Quantitative Genetics and Analysis of Variance.

As a graduate professor, Dr. Kempthorne strove to remain current in education. He advised many statistics, animal breeding, and miscellaneous graduate students through curriculums in statistics. The scientific subject file includes information regarding curriculums, curriculum changes, majors, Ph.D. exams and schedule of classes.

Container list

Box	Folder	Title	Dates
104	6	Abstracts	1966
104	7	Advances in Agronomy	1956
104	8	Agriculture Experimental Station (AES)	1941-1953
104	9	AES	1965-1971
104	10	Aims, Logic, and Methods of Transformations	n.d.
104	11	Agronomy – Contributions of Statistics	1967
104	12	American Society of Agronomy	1948-1965
104	13	American Statistical Association (ASA)	1959-1960
104	14	ASA – Minutes	1959
105	1	Analysis of Covariance	1956-1957
105	2	Analysis of Covariance – DeLury	n.d.
105	3	Analysis of Covariance – Federer	1956
105	4	Analysis of Covariance – Hartley	n.d.
105	5	Analysis of Covariance – Interpretation of Regressions in Analysis	1956
105	6	Analysis of Covariance – Smith	1956
105	7	Analysis of Covariance – Zelen	1956
105	8	Analysis of Diallel Crosses	n.d.
105	9	Analysis of Percentages	1940-1941

Box	Folder	Title	Dates
105	10	Analysis of Randomized Experiments	1953
105	11	Analysis of Rock Composition Data	n.d.
105	12	Application for Assistantships	1960-1972
105	13	Applied Statistics Seminar	1966
105	14	Ascertainment	n.d.
105	15	Autotetraploid Population	1954
105	16	Award Scheme – Indian Agricultural Society	1959-1961
105	17	Bacterial Densities	n.d.
105	18	Bancroft's Course	n.d.
105	19	Batelle Memorial Institute	1949
105	20	The Bet	n.d.
105	21	Biological Assay	n.d.
105	22	Biometrical Relations Between Relatives	n.d.
106	1	Biometrics	1960-1969
106	2	Biostatistics – Conference	1951-1971
106	3	Bliss's Theory	1947
106	4	Block Interaction Paper	n.d.
106	5	Board of Regents	1968
106	6	Buros – Journal of the American Statistical Association (JASA)	1948
106	7	Can Multivariate Data Analyzed by Univariate Methods	n.d.
106	8	Changes in Population Mean in Terms of Effects	n.d.
106	9	Chapins Book	1948
106	10	Classical Likelihood Theory – Seminar	1970
106	11	Classification Methods – Notes	1949
106	12	Classification Experimental Design Using Blocks of Two Plots	1952
106	13	Clustering	1971
106	14	Components of Variance	n.d.
107	1	Computer Genetics Newsletter	1968

Box	Folder	Title	Dates
107	2	Computation	1961-1969
107	3	Computation Center – Iowa State University	1964-1970
107	4	Computation Center	1962-1963
107	5	Computation Center	1964-1966
107	6	Computing Set Up	1961-1964
107	7	Components of Variance and the Correlations Between Relations	1954
107	8	Concepts of Fitness	n.d.
107	9	Conferences	1948
107	10	Consumer Demand for Pork Measured	1953
107	11	Contest of the Uses Article	1948
107	12	Contributions of Statistics to Agronomy	1956
107	13	Correlations Between Relatives in Random Mating Populations – CSH	n.d.
107	14	Correlations Between Relatives in Random Mating Populations – CSH	1955
107	15	Correlations Between Relatives in a Simple Autotetraploid Population	n.d.
108	1	Correlations Random Mating Population	1954
108	2	Correlations Random Mating Population	1955
108	3	Corn: Bushels/1000lb Experiment at Clarion	1945
108	4	Corn Industries Research Foundation	1958
108	5	Corn Moisture	1948
108	6	Corn Survey	1947
108	7	Correlations in Inbred Populations	1954-1955
108	8	Costal Conservation	1968
108	9	Courses	1947
108	10	Circulant Designs	n.d.
108	11	Curriculum	1948-1958
108	12	Curriculum – Changes	1950-1952
108	13	Curriculum Major	1963

Box	Folder	Title	Dates
108	14	Curriculum – Schedule of Classes	1950-1952
109	1	Cyclone	1961
109	2	Department of Agriculture Project	1971
109	3	Design	n.d.
109	4	Design and Analysis of Experiments	1947
109	5	Design and Analysis of Experiments with Some Experiments	1960-1961
109	6	Design and Analysis of Long-term Experiments	1950
109	7	Design – Courses	1947
109	8	Design – Lectures	1951
109	9	Diploma Questions	1961-1964
109	10	Discussions of Social Experimentation	1973
109	11	Econometric Society	1949-1956
109	12	Efficiency Factor	n.d.
109	13	Efficiency of Blocking in Incomplete Block Designs	n.d.
109	14	Errors in IHC Survey	n.d.
109	15	Errors in Observations	n.d.
109	16	Errors in Observations	n.d.
109	17	Errors in Observations	1962-1963
110	1	Estimation of Availability Coefficients	n.d.
110	2	Estimation of Environmental Genetic Trend	n.d.
110	3	Example of the use of Fractional Replication	1952-1953
110	4	Expectations of Mean Squares in a Three-Way Classifications	n.d.
110	5	Experimentation Versus Surveys	1958-1960
110	6	Existence of a Fiducial Density	n.d.
110	7	Fall Conference, Charlotte N.C.	1971
110	8	Fiducial Inference	n.d.
110	9	Fishers Fundamental Theorem of Natural Selection	1966
110	10	Fisher Memorial	n.d.

Box	Folder	Title	Dates
110	11	Fitting a Line-Error	1962
110	12	Fitness	1963
110	13	Fixed, Mixed and Random Models	1954-1955
110	14	Freeman and Company	1954-1955
110	15	Games and Game Theory	n.d.
110	16	General Theory of the Diallel Cross	1956
110	17	Genetics Conference – Japan	1967-1968
110	18	Genetics Courses	1965
110	19	Genetics Experiments	n.d.
110	20	Geological Problems	1962
110	21	Graduate Committee – Repeating Courses	1971-1972
111	1	Gordon Research Conference – AAAS	1954-1957
111	2	Graduate/Ph.D. Core Committee	1958
111	3	Graduates – Animal Breeding Majors	1957-1963
111	4	Graduates – Completed	1947-1962
111	5	Graduates – Miscellaneous	1949-1962
111	6	Greek Paper and Greek Survey	1947-1960
111	7	Gumbel's Notes	1947
111	8	Heredity – Environment Seminar	1970
119	9	Heredity and Environment – The Statistics	1970
111	10	Heritability	n.d.
111	11	Hidden Replication	n.d.
111	12	History of Quantitative Inheritance	1959
111	13	Importance of Genotype – Environment	n.d.
111	14	Inbred Populations	n.d.
111	15	Incomplete Block Design with Blocks of Two Plots	n.d.
111	16	Incomplete Experiment Corn	n.d.
112	1	Institute of Mathematical Statistics – Central Regional Meeting	1970-1971
112	2	International Business Machines (IBM)	1958

Box	Folder	Title	Dates
112	3	International Symposium on Multivariate Analysis	1964-1965
112	4	Interpretation of Twin Data	1959-1961
112	5	Inherited Methods of Finding the Inputs for Maximum Yield	n.d.
112	6	Lantz Grapes	1915-1931
112	7	Latin Square with Non-Additivity (LSNA)	n.d.
112	8	Lattice with Split Plots Trial	n.d.
112	9	Least Squares and Best Linear Unbiased Estimation Lectures	n.d.
112	10	Lecture – Evolutionary Operations	n.d.
112	11	Lecture – Genetic Statistic	n.d.
112	12	Lecture – Least Squares, Inverses, etc.	n.d.
112	13	Lecture – Schlaifer Decision Functions	n.d.
112	14	Lecture – School System in England	1953
112	15	Lectures on Design of Experiments	1947-1948
112	16	Lecture – Quantitative Inheritance	n.d.
112	17	Lecture – Washington	1951-1952
112	18	Linear Models	n.d.
112	19	Linear Programming – Basic Idea	n.d.
112	20	Long Term Experiments	1953-1954
112	21	Maternal Effects	n.d.
112	22	Markov – Chain Mating Systems	n.d.
112	23	Mathematical Genetics	1955
112	24	Mendel, G. – Memorial Symposium	1965
112	25	Microbiological Assay	n.d.
113	1	Milk	1947
113	2	Minneapolis Meetings	1962-1964
113	3	Missing Hills – Examination of Experts	n.d.
113	4	Mixed Factorials	n.d.
113	5	Mixed Models	1955
113	6	Mixture of Distributions	n.d.

Box	Folder	Title	Dates
113	7	Model for the Study of Quantitative Inheritance	1954
113	8	Modification Diallel Table with Partial Inbreeds	n.d.
113	9	Modified Latin Square	1957,n.d.
113	10	Multivariate Analysis	1960-1965
114	1	Murty, V. N.	n.d.
114	2	National Vegetable Research Station	1954-1959
114	3	Navy Project	1947-1949
114	4	New York Meeting	1967
114	5	Non-Additives in Latin Square Design	1955
114	6	Non-Parametrics	n.d.
114	7	Non-Random Mating	n.d.
114	8	Oak Ridge Meeting	n.d.
114	9	Oak Ridge Meeting	1950-1960
114	10	Office Ordinance Research	1960
114	11	Oklahoma – Summer Session	1961-1962
114	12	On the Covariances Relatives Under	1955
114	13	Operations Research Seminar Series	1971-1973
114	14	Orthogonal Main-Effect Plans for Asymmetrical Factorial Experiments	1961
114	15	Partan	1961-1974
114	16	Partial Diallel Cross	1953-1961
114	17	Partition of Error in Randomized Blocks	1953
114	18	Path Coefficients	n.d.
114	19	Petterson Grass	1953-1956
115	1	Ph.d. Preliminary Exam	1956-1964
115	2	Ph.d. Preliminary Exam	1966-1970
115	3	Philadelphia Meeting	1965
115	4	Physical Plant	1969
115	5	Pittsburgh Meeting – COPSS	1968-1969
115	6	Planning on 2n Factorial Experiments	n.d.

Box	Folder	Title	Dates
115	7	Pobber	n.d.
115	8	Political Science	1946
115	9	Practical Implications of a Randomization	n.d.
115	10	Present Status of Theory of Quantitative Inheritance	n.d.
115	11	Prime Power Lattice – First Draft	1948
115	12	Prime Power Lattice – Second Draft	1948
115	13	Projects	1947-1948
115	14	Proposal on Crop Statistics	n.d.
115	15	Quantitative Genetic Correspondence	1958-1969
116	1	Quantitative Genetics	1959-1963
116	2	Quantitative Genetics	1967-1970
116	3	Quantitative Genetics – Human	1967
116	4	Queries	1947
116	5	Radiation Life Data	1966
116	6	Radio Active Counting – Posson	n.d.
116	7	Raleigh Symposium	1960-1961
116	8	Randomization – Multivariate	n.d.
116	9	Randomization – Regression	n.d.
116	10	Randomization Theory	1953-1954
116	11	Randomization Theory of Experience Inference	1954-1955
116	12	Random mating and Linkage	n.d.
116	13	Rates of Substitution	1968-1969
116	14	Reference on Biometric Paper	n.d.
116	15	Sampling of Populations and the Analysis of Variance	n.d.
116	16	Sampling with Finite Probabilities	n.d.
116	17	Science	1963-1971
116	18	Science – Division	1949-1952
116	19	Science Information Exchange	1966
117	1	Scientific Research	1969
117	2	Scoring of Genetic Data	1956

Box	Folder	Title	Dates
117	3	Scoring Tests	1955
117	4	Selection Theory	n.d.
117	5	Selfing	n.d.
117	6	Selfing of Random Mating Populations	n.d.
117	7	Seminar on Crop Breeding Experiments	n.d.
117	8	Sex-Linked Genes	n.d.
117	9	Shepard – Changes	n.d.
117	10	Size and Power of the Randomized Test	n.d.
117	11	Skrikande – Notes on paper by – Heterogeneity	1965
117	12	Smoothing and Interpolation Problems	n.d.
117	13	Society for Industrial and Applied Mathematics	1964-1967
117	14	Some Main-Effect Plans and Orthogonal Arrays	1961
117	15	Stanford University	1963-1964
117	16	Starch	1957
117	17	Statistical Analysis of Composition Data	1961
117	18	Statistical Inference in Finite Sampling	n.d.
117	19	Statistical Laboratory – Iowa State University	1963-1964
117	20	Statistical Meeting – Colorado	1971
117	21	Statistical Notes on Design	n.d.
117	22	Statistical Summer Workshop	1961-1963
118	1	Statistical Workshop	1944-1950
118	2	Statistical Workshop – Heterosis	1950
118	3	Statistics Reading Room and Library	1966-1971
118	4	Statistics Seminar	1951-1971
118	5	Testing Inbred Lines	n.d.
118	6	Theorem of Natural Selection	n.d.
118	7	Theory of Errors	n.d.
118	8	Theory of Inbreeding	1955
118	9	Theory of Sampling Finite Populations	1952
118	10	Transformation	1966

Box	Folder	Title	Dates
118	11	Transformation – Pittsburgh	1967-1968
118	12	Transformations of Scale	1966
118	13	Treatment Errors in Comparative Experiments	1960
118	14	Triple Rectangular Lattices	n.d.
118	15	Twin Data	1958-1961
119	1	Twin Data	n.d.
119	2	Uncertainty, Probability and Statistics	1967-1969
119	3	University of Windsor	1970
119	4	Urban Transportation	1970-1971
119	5	Virginia Polytechnic Institute Meetings	1967-1968
119	6	Visiting Lectures	1963-1968
119	7	Weighing Problems	1947
119	8	Wilcoxon Rank	n.d.
119	9	Wisconsin Meeting – Future of Statistics	
119	10	Yugoslavia Meeting – International Statistics Institute	1965
152	3	White, Robert F. – Hoffman-LaRoche: Cluster Analysis	1974
152	38	Rao & Mitra - Notes on Distribution of QF's	n.d.
152	39	Independence of Quadratic Forms	n.d.
153	4	Unequal Numbers in R	1974
153	5	The Analysis of Variance	n.d.
153	7	Necessary Basic Algebraic Ideas	n.d.
153	10	The Finite Projective Plane Business	1981
153	12	Kalman Filter Models	n.d.
153	13	Formulation of Wagers	n.d.
153	14	Alternative Approach to Non Full Rank Case	n.d.
153	17	Definitions of a RU	n.d.
153	21	Multinomial Likelihood Model	1982
153	22	Composite Question: An Answer	n.d.
153	23	The Mixed Experiment: A Special Ancillary Situation	n.d.
153	24	Steel & Torrie	n.d.

Box	Folder	Title	Dates
153	28	Proposed Take Home Combo	n.d.
153	29	Linear Models	1977
153	33	Poincaré and Henri: Science & Method	n.d.
153	34	Inference and Decision	n.d.
153	35	C. Structures & Linear Models	n.d.
153	36	The Restricted Aiken Model	n.d.
153	37	The Gers(h)goren Theorem	1931
153	38	Animal Population	n.d.

Description of series

Series 7 **Writings: Articles** **1944-1995,n.d.**

extent: 1.872 linear ft. (225 folders)
Boxes 119-121, 152, 164-167, 170, 180-182

description: Oscar Kempthorne was sole or coauthor of over 140 papers, during his 42 years at Iowa State University. He was published in several leading statistical journals including: Journal of American Statistical Association, Biometrics, Annals of Mathematical Statistics, Biometrical Genetics, Journal of the Royal Statistical Society, Theoretical Population Biology, Communications in Statistics, Journal of Statistical Planning and Inference. A list of Dr. Kempthorne's publications is located within his biographical materials in Box 1.

Additional references to journals and articles may be found in boxes 89/7, 89/8, 89/9, 89/10, 89/12, 90/1, 90/2, 90/3, 90/4, 90/5, 90/6, 127/6.

Container list

Box	Folder	Title	Dates
119	11	Addendum for Waterloo Symposium	n.d.
119	12	An Ancient Mariner Reflects on Statistics	1989

Box	Folder	Title	Dates
119	13	Best Liner Unbiased Estimation with Arbitrary Variance Matrix	1973
119	14	Best Liner Unbiased Estimation with Arbitrary Variance Matrix	1976
119	15	Comparative Experiments and Randomization	1986
119	16	Development of the Design of Experiments Over the Past Ten Years	1965
119	17	Discussion of Cornfield's Paper – The Bayesian Outlook and Its Application	1969
119	18	Discussion of Paper by T.P. Speed	1986
119	19	Discussion of Social Experimentation – ASA Meeting	1973
119	20	Evaluation of Yield Surface Exploration Methodology	n.d.
119	21	Factorial Approach to the Weighing Problem	1948
119	22	Fate Worse than Death and Other Curiosities and Stupidities	1988
119	23	Future of the Department of Statistics at Iowa State University	1986
119	24	Evaluation of Current Population Genetics Theory	1981
119	25	Impact of Cross-Disciplinary Activity in Statistics and Agriculture	1986
120	1	Intervention Experiments, Randomization and Inference	1988
120	2	IQ and Race Sheet	1977
120	3	Logical, Epistemological and Statistical Aspects of Nature-Nature Data Interpretation	1978
120	4	Method of Parallel Tangents (<u>Partan</u>) for Finding an Optimum	1962
120	5	Methods of Soil Analysis	1986
120	6	Moment Generating Functions and Characteristic Functions	1977
120	7	Notes on REML for the Mixed Model	1976
120	8	Notes on Sequential Data Collection and Resultant Data Interpretation	1986
120	9	Of What Use are Tests of Significance and Tests of Hypothesis	1976

Box	Folder	Title	Dates
120	10	Origins and Development of Modern Statistics	1989
120	11	Overview of the Field of Quantitative Genetics	1976
120	12	Overview of the Field of Quantitative Genetics	1987
120	13	Parallel Tangents and Steepest Descent Optimization Algorithm – A Computer Implementation	1970
120	14	Partition of Phenotypic Variance for Threshold Traits	1963
120	15	Pipe Dreams: The Future of StatLab	1987
120	16	Probability, Statistics and the Knowledge Business	1969
120	17	Proceedings of the International Conference on Quantitative Genetics	1977
120	18	Randomization	n.d.
120	19	Randomization in Fractional Factorials	1962
120	20	Relationships Between Mathematics and Statistics	1987
121	1	Resazurin Research Scheme	1969
121	2	Research Council	1947
121	3	Research Proposals	1957-1958
121	4	Residuals – Mallory	1962
121	5	Role of System of Mating in the Determination of Means, Variance and Covariance	1961-1963
121	6	Rothamsted Experiment Station	1957
121	7	Royal Statistical Society	1945-1973
121	8	Rutger Meeting – New Brunswick	1966
121	9	Sampling – Miscellaneous	n.d.
121	10	Sampling, Inference, Experimental Inference and Observation Inference	1974
121	11	Second International Conference on Quantitative Genetics	1977
121	12	Statistical Consulting Contribution to Panel Discussion	1979
121	13	Steepest Ascent Portion on Ellipsoidal Contours	1961
121	14	Some Aspects of Constrained Randomization	1963
121	15	Some Further Properties of the Methods of Parallel Tangents and Conjugate Gradients	1961
121	16	Statistical Design Experiments	1986

Box	Folder	Title	Dates
121	17	Statistical Journals Available at Main Library	1978
121	18	Status of Quantitative Genetic Theory	1977
121	19	Teaching of Statistics at the M.S. Level	1972
121	20	Teaching of Statistics: Content Versus Form	1979
121	21	Theorem Probability	1977
121	22	Two-way Mixed Linear Model	1975
121	23	Use of Randomly Chosen Fractions of Factorial Systems	1961-1964
121	24	What is Applied Statistics?	1986
121	25	Why Randomize?	1977
152	19	The Evolution – Creation Controversy	n.d.
152	28	International Conference on Quantitative Genetics – Article and Program	1976
152	44	Snedecor Waterloo Colorado	1967-1970
164	2	Note on Goodness of Fit of a Population to Hardy- Weinberg Structure	1975
164	3	Term Design Matrix	1980
164	4	Testing Reveals a Big Social Problem	n.d.
164	5	Theoretical Values of Correlations Between Relatives in Random Mating Populations	1954
164	6	An Experimental Test of Quantitative Genetic Theory (Kidwell, J. F. and O. Kempthorne)	1966
164	7	Fertilizer Evaluation: II Estimation of Availability Coefficients	1956
164	8	On Structure, Relation, Sigma, and Expectation of Mean Squares (Zyskind, George)	1962
164	9	Partial Tetra-Allen Crosses (Hinkleman, Klaus)	1968
164	10	Randomization Analysis of Data	1979
164	11	Randomization Theory of Experimental Inference	1955
164	12	Reciprocal Recurrent Selection and Modifications in Simulated Populations (Cress, C. E.)	1967
164	13	Regression Estimation After Correcting for Attenuation (Fuller, Wayne A. and Michael A. Hidioglou)	1978
164	14	Some Effects of Fluctuating Offspring Distributions on the Survival of a Gene (Pollack, Edward)	1966

Box	Folder	Title	Dates
164	15	Structure of Populations Under Mixed Random and Sib Mating (Ghai, G. L.)	1969
164	16	Role of Finite Population Size and Linkage in Response to Continued Truncation Selection (Qureshi, A. W. and Kempthorne and Hazel)	1968
164	17	On the Fixation of Genes of Large Effects Due to Continued Truncation Selection in Small Populations of Polygenic Systems with Linkage (Qureshi, A. W. and Kempthorne)	1968
164	18	Classificatory Data Structures and Associated Linear Models	n.d.
164	19	Multiple Comparison Procedures (Springer, Basil and Oscar Kempthorne)	1973
164	20	Inference	1995
164	21	Analysis of Variance: Preliminary Tests, Pooling, and Linear Models (Wilk, M. B. and O. Kempthorne)	1956
164	22	Analysis of Variance Procedures (Kempthorne, O., G. Zyskind, S. Addleman, T. N. Throckmorton, and R. F. White)	1961
164	23	Restricted Selection Indices (Kempthorne, Oscar and Arne W. Nordskog)	1959
164	24	Why Johnny Can't Add: The Failure of the New Math (Kline, Morris)	1973
164	25	Two Classes of Group Divisible Partial Diallel Crosses (Hinkleman, K. and O. Kempthorne)	1963
164	26	Methods of Parallel Tangents (Buehler, R. J., B. V. Shah and Oscar Kempthorne)	1964
164	27	Behavior of Some Significance Tests Under Experimental Randomization (Kempthorne, Oscar and T. E. Doerfler)	1969
164	28	Error Structures, Projections and Conditional Inverses in Linear Model Theory (Zyskind, George)	1975
164	29	Parent-Offspring and Full Sib Correlations Under a Parent-Offspring Mating System (Horner, Theodore W.)	1956
164	30	Full Sib and Parent-Offspring Correlations in Symmetrical Random Mating Populations (Horner, Theodore W.)	1956
164	31	Components of Variance in Symmetrical Random Mating Populations (Horner, Theodore W.)	1956

Box	Folder	Title	Dates
164	32	Maximum Likelihood Estimation from Incomplete Data (Hartley, H. O.)	1958
164	33	Survey of Statistical Design and Linear Models (Srivastava, Jagdish N.)	1975
164	34	Fecundity Differences Between Mating Pairs for a Single Autosomal Locus (Roux, C. Z.)	1975
164	35	Sex Differences in Linkage Between Autosomal Loci (Roux, C. Z.)	1978
164	36	Fixation Probabilities and Effective Population Numbers in Diploid Populations with Overlapping Generations (Emigh, Ted H. and Edward Pollack)	1979
164	37	Dynamics of Populations Under Partial Inbreedings (Ghai, Gauri L. and Oscar Kempthorne)	n.d.
164	38	Multinomially Grouped Response Times for the Quantal Response Bioassay (White, Robert F. and Joseph G. Graca)	1958
164	39	Influence of Errors of Parameter Estimation Upon Index Selection (Harris, Dewey L.)	1963
164	40	Design and Analysis of Experiments with Some Reference to Educational Research	1961
164	41	Estimation of Environmental and Genetic Trends from Records Subject to Culling (Henderson, C. R., Oscar Kempthorne, S. R. Searle and C. M. von Krosigk)	1959
164	42	Non-Additivities in a Latin Square Design (Wilk, M. B. and Oscar Kempthorne)	1957
164	43	Some Aspects of Experimental Inference	1966
164	44	Some Algorithms for Minimizing a Function of Several Variables (Shah, B. V., R. J. Buehler and O. Kempthorne)	1964
164	45	Randomization Tests for Comparing Survival Curves (Cox, D. F. and O. Kempthorne)	1963
164	46	Parallel Tangents and Steepest Descent Optimization Algorithm – A Computer Implementation with Application to Linear, Partially Linear Models and Qualitative Data (Papaioannou, Takis and Oscar Kempthorne)	1972
164	47	Malthusian Parameters in Genetic Populations (Pollak, Edward and Oscar Kempthorne)	1970

Box	Folder	Title	Dates
165	1	Malthusian Parameters in Genetic Populations – Part II (Pollak, Edward and Oscar Kempthorne)	1971
165	2	Inference from Experiments and Randomization	1975
165	3	Examination of a Repeat Mating Design for Estimating Environmental and Genetic Trends (Giesbrecht, F. and O. Kempthorne)	1965
165	4	Efficiency Factor of an Incomplete Block Design	1956
165	5	Contributions of Statistics to Agronomy	1957
165	6	Comments on the Note “On a Theorem Concerning Sampling”	1944
165	7	A Comparison of the Chi Square and Likelihood Ratio Tests for Composite Alternatives (West, Eric N. and Oscar Kempthorne)	1971
165	8	Correlations Between Relatives in Inbred Populations	1955
165	9	Biometrical Relations Between Relatives and Selection Theory	1960
165	10	Correlation Between Relatives in a Simple Autotetraploid Population	1955
165	11	Effective Population Numbers and Mean Times to Extinction (Pollak, Edward)	1979
165	12	Asymptotic Form of the Extinction Probabilities, Some Effects of Two Types of a Migration on the Survival of a Gene (Pollak, Edward)	1972
165	13	Disequilibrium Among Several Linked Neutral Genes in Finite Population (Hill, William G.)	1974
165	14	A Table for Estimating the Mean of a Lognormal Distribution (Thoni, Hanspeter)	1969
165	15	Expected and Predicted Progress from Index Selection Involving Estimates of Population Parameters (Harris, Dewey L.)	1964
165	16	A Multidimensional Age-Dependent Branching Process with Applications to Natural Selection – Pts. I and II (Mode, Charles J.)	1968
165	17	Analysis of Some Nonrandom Mating Models (Ghai, G. L.)	1974
165	18	Enumeration of Cyclic Graphs and Cyclic Designs (David, H. A.)	1972

Box	Folder	Title	Dates
165	19	Some Basic Elements of Continuous Selection Models (Cornette, James L.)	1975
165	20	Consistency of the Normal Equations Via Linear Duality (Andriano, Kim)	1977
165	21	Planning Some Two-Factor Comparative Surveys (Booth, Gordon and J. Sedransk)	1969
165	22	Maximum Likelihood Estimation in the Three-parameter Lognormal Distribution (Giesbrecht, F. and O. Kempthorne)	1976
165	23	Revisiting the Past and Anticipating the Future	1984
165	24	On The Covariances Between Relatives Under Selfing with General Epistacy	1956
165	25	Effect of Linkage of the Mean Value of Inbreds Derived from a Random Mating Population (van Aarde, I. M. R.)	1974
165	26	Quadratic Subspaces and Completeness (Seely, Justus)	1971
165	27	Design of Experiments to Estimate Heritability When Observations are Available on Parents and Offspring (Thompson, Robin)	1976
165	28	Extended Group Divisible Partially Balanced Incomplete Block Designs (Hinkleman, Klaus)	1964
165	29	Circulant Partial Triallel Crosses (Hinkleman, K.)	1967
165	30	Biometrical Parameters of Self-Fertilizing Diploid Populations (Harris, Dewey L.)	1964
165	31	Selection for a Threshold Character in Drosophila (Latter, B. D. H.)	1970
165	32	A Monte Carlo Evaluation of Predicted Selection Response (Gill, J. L.)	1965
165	33	Effects of Finite Size on Selection Advance in Simulated Genetic Populations (Gill, J. L.)	1965
165	34	Selection and Linkage in Simulated Genetic Populations (Gill, J. L.)	1965
165	35	Limiting Distribution Under Assortative Mating (Ghai, G. L.)	1973
165	36	On Best Linear Estimation and a General Gauss-Markov Theorem in Linear Models with Arbitrary Nonnegative Covariance Structure (Zyskind, George and Frank B. Martin)	1969

Box	Folder	Title	Dates
165	37	Parametric Augmentations and Error Structures (Zyskind, George)	1969
165	38	On Canonical Forms, Nonnegative Covariance Matrices and Best and Simple Least Squares Linear Estimators in Linear Models (Zyskind, George)	1967
165	39	On Combinability of Information from Uncorrelated Linear Models by Simple Weighting (Martin, Frank B. and George Zyskind)	1966
165	40	Some Consequences of Randomization in a Generalization of the Balanced Incomplete Block Design (Zyskind, George)	1963
165	41	On Survival Probabilities and Extinction Times for some Branching Processes (Pollak, Edward)	1971
165	42	Survival of a Mutant Gene (Pollak, Edward)	1974
165	43	Some Results for a Bivariate Branching Process (Ghai, G. L. and E. Pollak)	1975
165	44	Bounds for Certain Branching Processes (Pollak, Edward)	1969
165	45	Some Consequences by Culling When There is Superiority of Heterozygotes (Pollak, Edward)	1966
165	46	On Sojourn Times at Particular Gene Frequencies (Pollak, Edward and Barry C. Arnold)	1975
165	47	Some Models of Genetic Selection (Pollak, Edward)	1979
165	48	Linear Spaces and Unbiased Estimation (Seely, Justus)	1970
165	49	Random Selective Advantages of a Gene in a Finite Population (Jensen, Louis and Edward Pollak)	1969
165	50	On Random Genetic Drift in a Subdivided Population (Pollak, Edward)	1968
165	51	On the Theory of Artificial Selection in Finite Populations (Hill, W. G.)	1969
165	52	Probability of Fixation of Genes in Populations of Variable Size (Hill, William G.)	1972
165	53	Relationship Between the Cumulative Difference and Best Linear Unbiased Predictor Methods (Thompson, R.)	1976
165	54	Selection in Finite Populations with Multiple Alleles (Latter, B. D. H.)	1970

Box	Folder	Title	Dates
166	1	Solving A Singular Diffusion Equation Occurring In Population Genetics (Jensen, Louis)	1974
166	2	Estimating the Location Parameter of an Exponential Distribution with Known Coefficient of Variation (Ghosh, Malay and Ahmad Razmpour)	1982
166	3	Selection Rank Tests for Regression (Ghosh, Malay and Pranab Kumar Sen)	1977
166	4	Partition of Phenotypic Variance Under Unknown Dependent Association of Genotypes and Environment (Emigh, Ted H.)	1977
166	5	Heterosis of the Hybrid Related to Gene Frequency Differences Between Two Populations (Cress, C. E.)	1966
166	6	A Comparison of Recurrent Selection Systems (Cress, C. E.)	1966
166	7	Relationship of Generalized Polykays to Unrestricted Sums for Balanced Complete Finite Populations (Carney, Edward J.)	1968
166	8	A Modification of a Result Due to Moran (Arnold, Barry C.)	1968
166	9	A Comparative Study of Alternative Estimators in a Distributed Lag Model (Amemiya, Takeshi and Wayne A. Fuller)	1967
166	10	Some Elementary Variations of the Lyapunov Inequality (Arnold, Barry C.)	1978
166	11	Note on a Conditional Property of Student's T (Buehler, R. J. and A. P. Feddersen)	1963
166	12	Irregular Fractions of the 2nd Factorial Experiments (Addleman, Sidney)	1961
166	13	Concepts of Fitness in Mendelian Populations (Kempthorne, Oscar and Edward Pollak)	1970
166	14	Sampling Inference, Experimental Inference and Observation Inference	1979
166	15	Statistical Treatment of Data with Genetic Structures	1971
166	16	Minaverage Bias Estimable Designs (Jordan, L. and O. Kempthorne)	1977
166	17	Factorial Approach to the Weighing Problem	1948

Box	Folder	Title	Dates
166	18	Some Aspects of Numerical Scoring in Subjective Evaluation of Foods (Carlin, Agnes Francis, Oscar Kempthorne and Joan Gordon)	1956
166	19	Random Balance: An Evaluation	1959
166	20	Efficiency of Blocking in Incomplete Block Designs (Folks, John Leroy and Oscar Kempthorne)	n.d.
166	21	Modified Diallel Table with Partial Inbreeding and Interactions with Environment (Matzinger, D. F. and O. Kempthorne)	1956
166	22	Some Aspects of the Analysis of Factorial Experiments in a Completely Randomized Design (Wilk, M. B. and O. Kempthorne)	1956
166	23	Use of a Punched-Card System for the Analysis of Survey Data, with Special Reference to the Analysis of the National Farm Survey	1947
166	24	Concept of Identity of Genes by Descent	1968
166	25	Classical Problem of Inference – Goodness of Fit	1968
166	26	Correlation Between Relatives in a Random Mating Population	1954
167	13	Kempthorne Visits India – Ames Tribune Clipping	1975
167	14	The Biggest Enigma by Jeremy Bernstein (The New York Review Clipping)	1991
167	22	Randomization	1986
167	23	The Tolerant Bayesian's Interpretation of a Tail-Area Probability (Good, I. J.)	n.d.
167	24	Donovan J. Thompson – Obituary	n.d.
170	2	The Processes of Science	1981
170	12	Significant Tests, Evidence and Ancillarity	n.d.
170	13	Statistical Science	n.d.
180	8	Steepest Ascent Partan on Ellipsoidal Contours (Buehler, R. J., B. V. Shah, and O. Kempthorne)	1961
181	6	Making Causal Inferences from Observational Data (Biometrics)	1978
181	7	Evaluation of Current Population Genetics Theory	1983
181	8	A Matter of Opinion: Are Dr. Feller's Views of Relevant?	1969

Box	Folder	Title	Dates
181	9	Treatment Errors in Comparative Experiments (with Zyskind)	1960
181	10	On Statistical Information Theory and Related Measures of Information (with Papaionnoo)	1971
181	11	Randomization Analysis of the General Experiment	1970
181	12	Linear Models and Analysis of Variance Research Procedures	1968
181	13	Research on Analysis of Variance and Related Topics (ARL 64-193)	1964
181	14	Orthogonal Main – Effect Plans (with Sydney Addleman)	1961
181	15	Zyskind Lecture for 1987-1988	1987
181	16	Theory of Equations, Determinants, Matrices, and Quadrants	1972
182	1	A Note on Goodness of Fit of a Population to Hardy-Weinberg Structure	n.d.
182	2	Some Aspects of Statistics, Sampling and Randomization	n.d.
182	3	Some Remarks on Statistical Inference in Finite Sampling	n.d.
182	4	Inference in Medical Research and Development	1977
182	5	The Completely Randomized Design	1989
182	6	Status of Quantitative Genetic Theory	1976
182	7	A Review of R. A. Fisher : An Appreciation	1980
182	8	On a Population Sample for Greece (with Jensen, Blythe, and Deming)	1947
182	9	Wilcox's Agribiology: I, II, III, IV (with C. A. Black)	n.d.
182	10	Review of the Study of Continuous Variation by Sir Kenneth Mather and John L. Jinks	n.d.
182	12	Probability, Statistics, and Data Analysis	1973
182	14	Simple Linear Regression with Inequality Constraints on the Parameters: A Bayesian Approach (with William D. Warde)	n.d.
182	15	A Comparison of Bayesian Priors for Simple Linear Regression with Inequality Constraints on the Parameters (with William D. Warde)	n.d.
182	16	Least Squares Theory	1976
182	17	Heredity and I.Q.	1977

Box	Folder	Title	Dates
182	18	Identifiability and Estimability in Linear Models	1973
182	19	Notes on Probability	1973

Description of series

Series 8 **Writings: Books** **1952-1977**

extent: .024 linear ft. (3 folders)
 Box 122, 167

description: The Writings: Books file contains a typescript copy of The Design and Analysis of Experiments, published by John Wiley and Sons in 1952. Also included is An Introduction to Genetics Statistics, published by John Wiley and Sons in 1957 and reprinted in 1969 by Iowa State University Press. These two books became Oscar Kempthorne's two most widely recognized publications. Also included is Encounter written by a variety of authors.

Container list

Box	Folder	Title	Dates
122	17	The Design and Analysis of Experiments (typescript)	1952
122	18	An Introduction to Genetic Statistics (typescript)	1957
167	25	Encounter (Misc. Authors)	1977

Description of series

Series 9 **Writings: Reviews by Oscar Kempthorne** **1948-1980,n.d.**

extent: .448 linear ft. (54 folders)
 Boxes 123-124, 152-153, 155, 168, 181

description: Oscar Kempthorne was referee for over eight journals including: Journal of American Statistical Association, Annals of Mathematical Statistics, Journal of the Royal Statistical Society, Theoretical Population Biology, Communications in Statistics, Journal of Statistical

Planning and Inference.

He was a member of Biometrics Editorial Board (1949-1953, 1957-1965) and held the position of Associate Editor (1971-1979). He served as an Associate Editor of Theoretical Population Biology (1973-1980). He was a part of the International Advisory Board of the Journal, Communications in Statistics (1972-1973), as well as on the Editorial Board, Journal of Statistical Planning and Inference (1977-1987), and the Advisory Board, Journal of Statistical Computation and Simulation (1970-1987). A list of journals Oscar Kempthorne refereed is located in his curriculum vitae within his biographical materials in Box 1.

Container list

Box	Folder	Title	Dates
123	1	Analysis of Variance and Factorial Design	1974,n.d.
123	2	Classical Likelihood Theory	1970
123	3	Classificatory Data Structures	n.d.
123	4	Comments on Keifer Paper (JASA)	1977
123	5	Components of Variance for Theoretical Models of Quantitative Gene Action	1963
123	6	Computers and Personhood	1973
123	7	Correlation Between Relatives and Path Analysis	1968-1977
123	8	Description and Analogy in the Practice of Statistics	1979
123	9	Discussion of Dr. Cornfield's paper – The Bayesian Outlook and its Application (Biometrics)	1969
123	10	Discussion on Fisher by Savage	1976
123	11	Discussion on Hansen-Madow-Tepping paper	n.d.
123	12	Discussion of S. R. Searle's Paper – Another Look at Henderson's Methods of Estimating (Biometrics)	1968
123	13	Discussion on Social Experimentation	1973
123	14	Distribution of Order Statistics	1973
123	15	Dynamics of Populations	1968-1971
123	16	Errors in Observation	1965

Box	Folder	Title	Dates
123	17	Experimental Designs in Sociological Research	1948
123	18	Exploring a Multi- and Random Fractions	n.d.
123	19	Eysench, B. J.	1972-1980
123	20	Feller's Views	1969
123	21	Fisher, R. A.	1974
123	22	Foundations of Statistical Thinking	1980
123	23	Future of Department of Statistics	1967
123	24	Inference from Experiments	1973
123	25	Linear Models and Analysis	1968
123	26	Linnick Book Review	1962
123	27	Logical Deviation of Linear Models for Experimental Situations	1954
123	28	Making Causal Inferences (Biometrics)	1978
123	29	Monte Carlo Investigation of Interaction of Linkage and Selection	n.d.
123	30	Nearly Flat Prior	n.d.
123	31	Optimality of Designs	n.d.
123	32	On the foundations of Statistical Inference (JASA)	1962
123	33	Précis of Bias in Mental Testing	1980
123	34	Probability, Statistics and the Knowledge Business	1971
124	1	Research on Analysis of Variance and Data Interpretation	1966
124	2	Selection of Early Statistical papers of J. Neyman	1970-1977
124	3	Some Aspects of Constrained Randomization	1963
124	4	Some Remarks on Statistical Inference and Infinite Sampling	1969
124	5	Statistics 612	1979
124	6	Statistics and the Philosophers	1976
124	7	Statistical Consulting Contribution to Panel Discussion	1979
124	8	Teaching of Statistics at the M.S. Level	1972
124	9	Treatment Errors in Comparative Experiments	1960
124	10	Two-way Mixed Linear Model	1975

Box	Folder	Title	Dates
152	1	The General Mixed Model (2.1 Review)	n.d.
152	4	A. P. Dempster's Probability & Statistical Inference – Comments and Review	n.d.
152	13	Preliminary Remarks on Ernst Mach	1976
153	16	A Bayesian Procedure for Forecasting with Autoregression – Litterman, Robert B.	1980
155	17	Bibliographies	n.d.
168	11	Comments on Hamilton: Psychopharmacology	1972
168	12	Comments on Memo of R. F. W. on Dropouts	1972
168	13	R. A. Fisher on Tests of Significance	n.d.
168	14	A Review of R. A. Fisher: An Appreciation	1980
168	15	A Review of the Principles of Experimental Design and some Applications	1951
181	5	Commentary on How Much Can We Boost I.Q. and Scholastic Achievement (Jensen, Arthur R.)	1970

Description of series

Series 10 **Writings: Reviews by Miscellaneous Authors** **1970-1992,n.d.**

extent: .1 linear ft. (12 folders)

Box 124, 167, 170, 181

description: Included in this reviews by miscellaneous authors are three reviews: Proceedings of the Sixth Berkeley Symposium on Mathematical and Probability by Edward Pollak; Early Statistics at Iowa Statistics at Iowa State University by Jay L. Lush; and A Note on Fishers 1918 Paper by Norton and Pearson. Also included are book review clippings from the *New York Review* and *Science*.

Container list

Box	Folder	Title	Dates
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Box	Folder	Title	Dates
124	11	Proceedings of the Sixth Berkeley Symposium on Mathematical and Probability by E. Pollack	1972
124	12	Early Statistics at Iowa State University by: Jay L. Lush	n.d.
124	13	Note on Fisher's 1918 Paper by Norton and Pearson	1976
167	15	Physics, Mathematics, and Minds (Science)	1990
167	16	Consequences of Pragmatism (Essays 1972-1980): by Bernard Williams (New York Review Clipping)	1983
167	17	Summing Up Satre by John Weightman (New York Review Clipping)	1987
167	18	The One and Only by Alan Lightman (New York Review Clipping)	1992
167	19	Jerzy Neyman (Science Clipping)	1983
167	20	Joint Statistical Paper: Book Reviews	1970,n.d.
167	21	The Kuhnian Perspective: Books Reviews	1978
170	7	Adelaide Genetics	n.d.
181	4	Miscellaneous Book Reviews	n.d.

Description of series

Series 11	Writings: Early Papers	1944-1971,n.d.
extent:	.364 linear ft. (44 folders) Boxes 124, 152, 170	
description:	Included within Oscar Kempthorne's early papers are miscellaneous studies primarily done between 1940 and 1960. The papers entail abstracts, observations on the elections in Greece and his study on Wilcox's Agrobiology.	

Container list

Box	Folder	Title	Dates
124	14	Abstracts	1971

Box	Folder	Title	Dates
124	15	Analysis of Confounded Factorial Designs in Single Replications	1957
124	16	Analysis of a Series of Experiments by the Use of Punch Cards	1946
127	17	Book Reviews	1948
124	18	Chemistry and Biochemistry	1952
124	19	Class of Experimental Designs Using Blocks of Two Plots	1953
124	20	Comments on the Note – On a Theorem Concerning Sampling	1944
124	21	Comparison of Variance Components in Corn Yield Trials	1952
124	22	Contributions of Statistics to Agronomy	1957
124	23	Correlations between Relatives in a Simple Autotetraploid Population	1955
124	24	Correlation between Relatives on the Supposition of Mendelian Inheritance	1968
124	25	Correlation of Selected Soil Indices with Plant Growth	1959
124	26	Estimation of Heritability by Regression of Offspring on Parent	1953
124	27	Estimation of Yield of Corn of Standard Moisture Content	1948
124	28	Factorial Approach to the Weighing Problem	1948
124	29	General Theory of Prime-Power Lattice Designs	1948
124	30	General Theory of Prime-Power Lattice Designs	1948
124	31	Importance of Soil Organic and Inorganic Phosphorus	1951
124	32	Incomplete Block Designs with Blocks of Two Plots	1954
124	33	Influence of Variations in Technique and Environment	1951
124	34	Influence of Variety on the Quality of Dehydrated Sweet Corn	1953
124	35	Joint Statistical Papers	1967
124	36	Keeping Quality and Raw-Milk	1951
124	37	Mathematics of Design and Analysis of Experiments	1964
124	38	Note on Differential Responses in Blocks	1946
124	39	Observations on the 1946 Elections in Greece	1949

Box	Folder	Title	Dates
124	40	Occurrence and Mineralization of Organic Phosphorus in Soils	1954
124	41	Partition of Error in Randomized Blocks	1953
124	42	Population Sample for Greece	1947
124	43	Queries and Notes	n.d.
124	44	Recent Developments in the Design of Field Experiments	1946
124	45	Review of the Principles of Experimental Design	1951
124	46	Simple Approach to Confounding and Fractional Replication	1947
124	47	Statistics in Biology	n.d.
124	48	Statistical Methods in Experimentation	1953
124	49	Stock-Carrying Capacity of Farms	1946
124	50	Uncertainty and Behavior	1970
124	51	Use of a Punched-Card System for the Analysis of Survey	1947
124	52	Wilcox's Agrobiology: I Theory of the Nitrogen Constant	1954
124	53	Wilcox's Agrobiology: II Application of the Nitrogen Constant	1954
124	54	Wilcox's Agrobiology: III The Inverse Yield-Nitrogen Law	1954
124	55	Wilcox's Agrobiology: IV Review of Wilcox's Reply	1955
152	32	Bibliography	n.d.
170	14	Yates (2x2) Paper	n.d.

Description of series

Series 12	Writings: Working Papers	1947-1986,n.d.
extent:	1.24 linear ft. (149 folders) Boxes 124-129, 151-153, 155-156, 168, 170, 180-182	
description:	Dr. Kempthorne's working papers include contemporary materials consisting of speeches, papers, memos, notes, replies, evaluations, abstracts and reviews. Among his more prominent works are the Best	

Linear Unbiased Estimation with Arbitrary Variance Matrix, Analysis of Variance, Errors of Observation, Steepest Ascent, Statistical Methods and Science, Randomization Theory, the Evaluation of Current Population Genetics Theory and work on the paper Why Randomize?

Container list

Box	Folder	Title	Dates
124	56	Addleman – Kempthorne	1961
124	57	Amemiya, Y.	1984
124	58	American Statistics Letter	1975
124	59	Analysis of Variance Factorial Design	n.d.
124	60	Annals of Mathematical Statistics 33,4,1502	1970
125	1	Best Linear Unbiased Estimation with Arbitrary Variation Matrix	n.d.
125	2	Best Linear Unbiased Estimation with Arbitrary Variation Matrix	n.d.
125	3	Best Linear Unbiased Estimation with Arbitrary Variation Matrix	n.d.
125	4	Contributions to the Statistical Analysis of Experiments	1959
125	5	Biometrics Correspondence	1978
125	6	Biometrics Working Paper	1977
125	7	Biometrics Working Paper	1977
125	8	Birds, E. W.	n.d.
125	9	Birds, E. W.	n.d.
125	10	Buehler, Shah – Preliminary Report 1: Steepest Ascent	1961
125	11	Buehler, Shah – Preliminary Report 2: Steepest Ascent	1961
125	12	Buehler, Shah – Preliminary Report 3: Steepest Ascent	1961
125	13	Birnbaum, Allan – A Unified Theory of Estimation	n.d.
126	1	Citations	1980
126	2	Classificatory Data	1980
126	3	Comments on Basu	1979
126	4	Construction of Orthogonal Arrays – Chapter 3	n.d.

Box	Folder	Title	Dates
126	5	Degrees of Freedom	1981
126	6	Design Experiments	n.d.
126	7	Discussion	n.d.
122	8	Dynamics of Populations	n.d.
126	9	Effect of Linkage	1974
126	10	Effects of Population Size	n.d.
126	11	Errors of Observation	1984
126	12	Evaluation of Current Population Genetics Theory	n.d.
126	13	Evaluation of Current Population Genetics Theory	1981
126	14	Experimental Randomization: I Need It	n.d.
126	15	Fixed and Mixed	n.d.
126	16	Fixed, Mixed and Random Models	1955
126	17	Foundations of Statistical Thinking and Reasoning	1979
126	18	Future of Departments of Statistics	n.d.
126	19	Genetic Population	1980
126	20	GM Linear Model with Conditions on the Parameters	1979
126	21	Hill I & II	1972
126	22	Indian Masters	n.d.
126	23	In Dispraise of the Exact Test: Reactions	n.d.
126	24	Hinkleman, Klaus – Paper	1981
126	25	Inference from Experiments and Randomization	n.d.
126	26	Insensitivity of the Analysis of Variance to Heredity	1990
126	27	Intervention Bibliography	n.d.
126	28	IQ and Heredity – A Deep Statistical Problem	1978
126	29	July 9th Mailing	1980
127	1	Kemphorne Discusses Savage on Fisher	n.d.
127	2	Knibbs	1978-1979
127	3	Letter to the Editor	n.d.
127	4	Linnick Review	1962

Box	Folder	Title	Dates
127	5	Logical Derivation of Linear Models for Experimental Situations	1954
127	6	Lush Article from Snedecor Book	n.d.
127	7	Master – Jensen Book	n.d.
127	8	Master of Errata for Ed's Biometrics Paper	n.d.
127	9	Master on Degrees of Freedom	n.d.
127	10	Analysis of Variance and Factorial Design	1974
127	11	Memos	1981
127	12	Nature and Role of Data Analysis	1981
127	13	Note on Randomization	1981
127	14	Notes on Statistics of a Two-way Table	1975
127	15	Of What Use Are Tests of Significance and Test of Hypothesis	n.d.
127	16	Old Indian Paper	1979
127	17	Opening Remarks – Older	n.d.
127	18	Optimality of Designs	n.d.
127	19	Optimization	n.d.
127	20	Partition of Interaction in a Two-way Table	1975
127	21	Path Analysis Review	1977
127	22	Probability, Statistics and the Knowledge Business	1971
127	23	Proceedings Review	1978
127	24	Randomization Theory	1955
127	25	Reply by Oscar Kempthorne	n.d.
127	26	Reply by Oscar Kempthorne	n.d.
127	27	Returns on July 22 Mailing	1980
127	28	Review of Koopmans	n.d.
127	29	Review of R. A. Fisher	n.d.
127	30	Review of Thompson and Thoday Book	1981
127	31	Roles of Randomization – Abstract	1981
128	1	Sampling, Experimental and Observational Inference	n.d.

Box	Folder	Title	Dates
128	2	Sartre Death	1980
128	3	Second International Conference on Quantitative Genetics	1977
128	4	Second Pass	1980
128	5	Simple Approach to Confounding and Fractional Replication	1947
128	6	Simple Truncation Selection	n.d.
128	7	Size and Power of Randomization Test	n.d.
128	8	Some Aspects of Statistics, Sampling and Randomization	n.d.
128	9	Some Remarks on Statistical Inference in Finite Sampling	n.d.
128	10	Some Statistical Aspects of Weather Modification Studies	n.d.
128	11	Statistical Methods and Science	n.d.
128	12	Statistical Methods and Science	1982
128	13	Statistical Inference as Evolutionary Program	n.d.
128	14	Statistics and Philosophers	n.d.
129	1	Statistics and Science	n.d.
129	2	Statistics of a Two-way Table	1975
129	3	Statistical Consulting Contribution to Panel Discussion	n.d.
129	4	Statistics Courses from Catalog	n.d.
129	5	Stein, C.	n.d.
129	6	Teaching Statistical at the Masters Level	n.d.
129	7	Teaching Statistics: Content Versus Form	n.d.
129	8	Theories of Inference and Data Analysis	1972
129	9	To: Students and Staff	1981
129	10	Topics in Stochastic Processes	1963-1964
129	11	Two-way Mixed Linear Model	1975
129	12	Why Randomize?	n.d.
129	13	Why Randomize?	n.d.
129	14	Zyskind, George	1929-1974
129	15	George Zyskind Theory	1958
151	10	Foundations: Some Early History	n.d.

Box	Folder	Title	Dates
151	11	Statistical Design of Experiments: Historical Overview	1986
151	12	What is Applied Statistics	1986
151	13	A Question on Venn: The Logic of Chance	1978
151	14	Linear Models and Analysis of Variance	n.d.
151	16	Tests of Significance	n.d.
151	19	Ancillary Statistics	n.d.
151	22	What is there in Statistics that is Useful?	n.d.
151	23	What Goes on in Statistics?	n.d.
151	24	Blastocyst and 8-Cell Stages	1979
151	27	Notes on Statistics of a Two-way Table	1975
151	31	Fiducial Inference	n.d.
151	39	The Analysis of Covariance in Causal Experiments	n.d.
152	14	Dr. Box – Discossant on Scientific Modeling	n.d.
152	17	Comments on Theory of Evidential Meaning	n.d.
152	18	Notes on Birnbaum's Axioms	n.d.
152	20	Selection in Selfers	n.d.
152	21	Impact on Biological Planet Breedings – Schnell	n.d.
152	23	Fisher	n.d.
152	29	The Sequence of Facts and Events in Human Behavioral Sciences	n.d.
152	30	Basic Questions in Population Genetics	1981
153	30	The Row Echelon Form of a Matrix	n.d.
155	11	Randomization	n.d.
155	12	Classification and Classificatory Linear Models	n.d.
156	7	Theory of Breeding in a Selfing Species	n.d.
168	1	Allels	1976,n.d.
168	2	An Unconventional Confidence Interval	n.d.
168	3	Comments on "Incomplete Data for an Irreversible Quantal Response" by R. F. White	1972
168	4	Proposition	1977

Box	Folder	Title	Dates
168	5	Draft: B-F Test	n.d.
168	6	Analysis of Variance: Linear and Non-linear	n.d.
168	7	Where is the fault, Dear Brutus? Genes or Environment	n.d.
168	8	Data Analysis: Old or New? Useful or Useless?	n.d.
168	9	Professor Eyseuck on Sir Byril Burt	1977
168	10	Papers and Theses on Quantitative Genetics from the Statistical Laboratory	n.d.
168	16	Mixed Linear Models	1975-1978
168	17	Introduction to Linear Models	1982
168	18	Introduction to Linear Models (Folder #2)	1982
170	3	Genetics – Draft	n.d.
180	9	Notes on Correlations of Full Sibs	n.d.
181	3	Miscellaneous Comments and Discussions	n.d.
182	13	A Note on the Reviewing of Books – Draft	1973

Description of series

Series 13 **Correspondence from Residence** **1949-1995,n.d.**

extent: 1.3 linear ft. (156 folders)
Boxes 130-134, 151, 170

description: A continued collection of professional correspondence between Dr. Kempthorne and his colleagues, professional organizations, companies, and students. Primarily from his later years at Iowa State University, this collection includes letters between Kempthorne and Wiley and Sons Publishing, offers of Employment, Recommendations, and miscellaneous comments and notes on papers, articles, and reviews.

Container list

Box	Folder	Title	Dates
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130	1	Munir Ahmad – Pakistan Journal of Statistics	1993
130	2	Bem P. Allen – Recommendation for Jerry Hirsch	1991-1993
130	3	Zakaria Fadl Almula	1989
130	4	Anderson, V. A. – Purdue Seminar	1986
130	5	Anderson, Virgil L. – Purdue: Offer of Employment	1956-1957
130	6	Arnold, Barry C. – International Studies in Economics: Iowa Peru Program	1977
130	7	Rosemary A. Bailey – Correspondence and Review	1987-1990
130	8	Sue Ballantine – Choices Magazine: Henry A. Wallace	1992
130	9	Berger, James O. – Purdue University	1994
130	10	Biometrics Unit – Cornell	1990
130	11	Book Publishing Correspondence for the books <u>Design and Analysis of Experiments</u> and <u>An Introduction to Genetic Statistics</u>	1949-1953
130	12	Book Publishing Correspondence for the books <u>Design and Analysis of Experiments</u> and <u>An Introduction to Genetic Statistics</u>	1953-1961
130	13	Bradley, R. A. – Florida State University: Offer of Employment	1963
130	14	Brunden, Marshall Nils – Recommendation	1990
130	15	Brzezinski, Jerry – Poland: Poznan Studies	1991
130	16	Buehler, Robert J. – University of Minnesota: Employment	1963
130	17	Burt, Sir Cyril – Correspondence and Reprints	1958-1993
130	18	Chubin, Daryl E. – Bioscience	1984-1986
130	19	Clem, John R. – Physics	1988
130	20	Climo, John – Education	1958-1961
130	21	Cox, Gertrude M. – University of North Carolina: Offer of Employment	1959
130	22	Cox, Phillip	1961
130	23	Cressie, Noel	1990
130	24	Crow, James F. – University of Wisconsin	1990
130	25	Dauben, Joesph W. – World Directory	1993
130	26	David, Herbert A. – Differentiable Generalized Inverses	1993

130	27	David, Philip A.	1987
130	28	DeGroot, Morris H. – Statistical Science	1985
130	29	Delaney, George J. – Wall Street Journal subscription	1961
130	30	Dempster, Art P. – Harvard Lecture: IQ and Heredity	1975
130	31	DeWall, Robert A. – Lewis Publishers	1991
130	32	Diaconis, Persi – Harvard University	1992
130	33	Dorfman, Donald D.	1993
130	34	Douglas, Jim B.	1990
130	35	Doyle, Gregory G. – Mendel	1992
130	36	Dudley, Richard M. – IQ and Heredity	1991
131	1	Edwards, Charles C., Jr. – Des Moines Register	1990
131	2	Erland, Kim – United Technologies	1992
131	3	Ewens, Warren J.	1990-1991
131	4	Eysneck	1977
131	5	Fang, Pin	1989
131	6	Fienberg, Stephen E. and William F. Eddy	1990
131	7	Finch, Peter D. – Description and Analogy in the Practice of Statistics	1981
131	8	Fowler, Veronica – Register	1991
131	9	Freeman, A. E. – Chris Tuggle	1993
131	10	Freeman, Gene	1990
131	11	Fryer, Holly C. – Kansas State University: Offer of Employment	1963
131	12	Gates, Charles E. – The American Statistician	1988
131	13	Geisser, Seymour – Hebrew University of Jerusalem	1991
131	14	Ghosh, Malay – Basu Volume	1991
131	15	Good, I. Jack	1983-1985
131	16	Good, Jack and Klaus Hinklemann	1986-1987
131	17	Gotway, Carol – Correspondence and Recommendation	1988-1992
131	18	Graves, Thomas S. – Egon Pearson	1992-1993
131	19	Gregorio, C. G. – Request for Reprint	1991

131	20	Griffing, Bruce	1991
131	21	Hanle, Helmut – Humboldt Research Award	1992
131	22	Hinklemann, Klaus and Kempthorne – Book Correspondence	1989-1992
131	23	Hogg, R. V. – Basic Engineering Statistics	1986
131	24	Holger, David	1990
131	25	Horvitz, Daniel G.	1992
131	26	Imumorin, Ikhide G. – Request for Reprints	1991
131	27	International Biographical Center – Men of Achievement	1992-1993
131	28	Issacson, Dean – Dean of Statistics Department	1990-1994
132	1	Jebe, Emil H. – Mail Survey Response	1988-1993
132	2	Jones, Byron – Nomination to American Statistical Association	1992
132	3	Kempthorne, Oscar – Who's Who	1991-1993
132	4	Kroonenberg – Request for Carvalho Thesis	1993
132	5	Lee, Youngjo	1981- 1992,n.d.
132	6	Lee, Youngjo and David Birkes	1990
132	7	Lee, Carl – Recommendation	1991
132	8	Lindren – University of Minnesota	1964
132	9	Low, Leone Y. – Request for Reprint	1992
132	10	Mallows, Colin L. – AT&T Laboratories: Request for Reprint	1993
132	11	Malliavin – University of Paris	1994
132	12	Marshall, Carl E. – Visiting Professor Program: Oklahoma State University	1962
132	13	Maslak, Anatol A. – All-Russian Research and Technology Institute of Biological Industry	1992-1993
132	14	Mickey, Ray	1990
132	15	Mood, Alexander M.	1990
132	16	Morgan, P. R.	1993
132	17	Morely, Fred	1990
132	18	Mostellar, Frederick – Harvard School of Public Health	1992

132	19	Narain, Prem – Evaluator	1991-1994
132	20	Nelder, John A.	1983
132	21	Nordskog, Dr. A. W. – Immunology	1991
132	22	Olkin, Ingram – Stanford University	1990-1992
132	23	Owen, Art – Arl 79 Report	1993
132	24	Page, Warren – College of Mathematics Journal	1985-1986
132	25	Papaioannou, Takis – Ioannina	1990-1993
132	26	Pareja, Gilda Piaggio – Centro Unversitario de Salud Pública	1992
132	27	Peixoto, Julio L. – Hierarchical Rules for Building and Testing Classificatory Linear Models	1992-1993
132	28	Pelkey, Jean – Request for Poem	1992
132	29	Pirchner, Franz – Lehrstuhl für Tierzucht	1992-1993
132	30	Postcards from Publisher	1957-1958
132	31	Damarajo Raghavarao – Temple University	1994
132	32	Rangachari, Lakshmi	n.d.
132	33	Rayner, Haines	n.d.
132	34	Richards, Winston A. – Penn State	1991
132	35	Rosen, David – Swarthmore College	1975
132	36	Rosenbaum, Paul – National Science Foundation Grant Evaluation	1988
132	37	Rothschild, Max	1988-1993
132	38	Roux, Carl – South Africa	1990
132	39	Rubin, Donald B. – Harvard University	1991
132	40	Ruist, Erik	1989
132	41	Scheuren, Fritz – American Statistical Association	1993
133	1	Schreuder, Hans T.	1990
133	2	Scott, J. T. – International Agricultural Program	1988
133	3	Shelly, Kathy – Sasgraph	1990
133	4	Shube, Beatric – Chapman & Hall	1992
133	5	Siemens, Johannes – Request for Reprints	1994
133	6	Simon, Julian L. – University of Maryland at College Park	1992

133	7	Smith, Cedric – University College London	1981
133	8	Speed, Terence	1987-1992
133	9	Sprague, G. F. – University of Illinois: Plant Breeding and Genetics	1991
133	10	Stampone, Patti Beasley – Recommendation	1991
133	11	Stanley, Julian C.	1987
133	12	Stearns, Stephen C. – Dallas	1980-1982
133	13	Strivastva, Jagdish N.	1990-1994
133	14	Stufken, John	1993
133	15	Sullivan, William R. – Hoffmann-LaRoche Inc.	1975-1976
133	16	Tamura, Roy – Lily Research Laboratories	1991
133	17	Tanur, Judith – American Statistical Association	1991
133	18	Thompson, Georgia	1991
133	19	Tintner, Gerhard – Biographical Materials	1986
133	20	Tucker, William – Apology	1994
133	21	Tuggle, Christopher K. – Iowa State University: Animal Breeding and Genetics Seminars	1993
133	22	University of Cambridge – ScD. Degree	1960
133	23	University of Malaya – Mustafa Haji Shamsuri	1991
133	24	University of Malaya – External Assessor	1981
133	25	University of Malaya – Assessments	1990
133	26	University of Malaya – Assessments	1990
134	1	University of Malaya – External Assessor	1991
134	2	University of Malaya – External Assessor	1991
134	3	University of Minnesota - Expenses	1963
134	4	Urbach, Peter – Random Sampling and the Principles of Estimation	1992
134	5	Van Aarde, Mauritz	1990-1991
134	6	Vayman, Boris	1992
134	7	White, Robert F.	1974-1991
134	8	White, Robert F. – BLU	1975
134	9	Wiley and Sons – Design and Analysis of Experiments	1994

134	10	Wiley and Sons – Royalties	1952-1968
134	11	Wilk, Martin B. – Recommendation	1995
134	12	Willhelm, Richard	1994
134	13	Yates, Frank	1984
134	14	Zimmerman, Alan – Iowa Stat-ers	1990
151	5	Escobar, Dr. Luis A. – Correspondence (Jerry Lewis)	1983
151	6	Koch, Dr. Gary G. – Correspondence	1983
151	7	Hill, William G. – Reprints and Correspondence	1989
151	20	University of Ioannina – Honorary Doctorate	1993
151	34	Geisser, Seymour – Introduction to Fisher and Correspondence	1991
151	35	Enas, Dr. Gregor G. – Correspondence: Midwest Biopharmaceutical Statistics Workshop	1988
151	36	Wasserstein, Dr. Ron	1988
151	37	Kline, A. David	1986
151	38	Athreya, Dr. Krishna	1988
151	40	Wickemasinghe, W. N.	1987
170	8	Virginia Polytechnic Institute – Statistics Faculty	1983

Description of series

Series 14 **Consulting: Materials from Residence** **1947-1983,n.d.**

extent: .24 linear ft. (29 folders)
Boxes 135-136, 153, 157, 178

description: Aside from teaching and research, Dr. Kempthorne did extensive consulting work for Case Institute of Technology, John Deere, Dow Chemical, Ohio Oil Company, and Hoffman-La Roche Inc. Included in this collection is various correspondence between Oscar Kempthorne and these companies, reports, payment receipts, and travel and personal expenses while consulting.

Container list

Box	Folder	Title	Dates
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135	1	Case Institute of Technology	1961
135	2	John Deere and Company – Mr. Bopf	1957
135	3	Dow Chemical Company – Correspondence	1959-1960
135	4	Dow Chemical Company – Correspondence	1961-1963
135	5	Dow Chemical Company – Correspondence and Miscellaneous Information	n.d.
135	6	Dow Chemical Company – Expenses and Paystubs	1960-1961
135	7	Dow Chemical Company – Miscellaneous	n.d.
135	8	Dow Chemical Company – Reports	1954-1961
135	9	Dow Chemical Company – Plastics Technical Service: Shrinkage Cushioning	1961
135	10	Iowa City Veterans Administration – Miscellaneous	n.d.
135	11	Iowa City Veterans Administration	1947-1962
135	12	Marathon Oil Company	1962
135	13	National Jewish Hospital at Denver	1959-1961
135	14	Ohio Oil Company – Correspondence	1959-1963
135	15	Ohio Oil Company – Expense forms	1959-1962
136	1	Ohio Oil Company – General	1960
136	2	Ohio Oil Company – Reprints	n.d.
136	3	Ohio Oil Company – Size Distribution	1960
136	4	Ohio Oil Company – Technical Reports	1957-1959
136	5	Westinghouse	1956-1962
136	6	St. Mary's College – Payment	1962
153	8	Hoffman La Roche Inc. – Robert F. White Correspondence	1975-1979
157	3	White, Robert F. and Hoffman – La Roche Inc.	1976
178	2	Hoffman-La Roche Inc. (White, Robert F.)-1	1972- 1983,n.d.
178	3	Hoffman-La Roche Inc. (White, Robert F.)-2	1972- 1983,n.d.
178	4	Hoffman-La Roche Inc. (White, Robert F.)-3	1972- 1983,n.d.

178	5	Hoffman-La Roche Inc. (White, Robert F.)-4	1972- 1983,n.d.
178	6	Hoffman-La Roche Inc. (White, Robert F.)-5	1972- 1983,n.d.
178	7	Hoffman-La Roche Inc. (White, Robert F.)-6	1972- 1983,n.d.

Description of series

Series 15	Materials from Residence: Teaching Materials and Coursework	1951- 1993,n.d.
extent:	.424 linear ft. (51 folders) Boxes 136-138, 151-153, 155-156, 169	
description:	This collection is a continuation of Dr. Kempthorne's Research and Teaching Related Materials Series (see boxes (98-104, 151-153, 155-156, 158, 162, 166-167, 169-171, 174, 177, 179-183, 188, 193) including class notes, lectures, quizzes, tests, and other course work.	

Container list

Box	Folder	Title	Dates
136	7	Genetic Statistics	1968- 1970,n.d.
136	8	IQ and Heredity – Reminder Sheets	1975
136	9	Math Notes – Kempthorne: 1980 Onwards	1980,n.d.
136	10	Math Notes – Kempthorne: 1980 Onwards	1980
136	11	Miscellaneous Notes	1979-1980
136	12	True-False Quiz	n.d.
136	13	Statistics 227F	1988
136	14	Statistics 328	1988
137	1	Statistics 436 – David Jowett: Notes, Midterm and Final	1968
137	2	Statistics 481 – Supplementary Notes: Computer Procession	1989
137	3	Statistics 511 – Exams	1951-1986
137	4	Statistics 511 – Handouts	1970-1974

137	5	Statistics 511 – Errata	1980
137	6	Statistics 511 – Notes	1977,n.d.
137	7	Statistics 511 – Notes	n.d.
138	8	Statistics 512	1969-1987
138	9	Statistics 512 – Exams	1951-1979
138	10	Statistics 513x	n.d.
138	11	Statistics 538	n.d.
138	12	Statistics 590B – Best linear prediction of Random Variables in a Mixed Models	1975
138	13	Statistics 590B – Holly Fuchs	1975
138	14	Statistics 601 – Course Outline	1993
138	15	Statistics 611 – Numerical Optimization	1987
138	16	Statistics – Notes	1984
138	17	Statistics 641 – Handouts	1978
138	18	Statistics 642	n.d.
138	19	Statistics 649	1970
138	20	Statistics 651	n.d.
138	1	Statistics 649 – Ancillaries	n.d.
138	2	Statistics 661, 511	1970-1978
138	3	Statistics 661 – Aleong	1973
138	4	Statistics 661 – Florida State	1978
138	5	Statistics 661 – Winston Richards	1973
151	21	Statistics 642 – Class Notes	1967-1968
151	25	Statistics Master’s Exam: Methods and Theory	1977
152	24	PhD. Topic	n.d.
152	27	Status of Theory of Quantitative Genetics – Handout	1976
152	34	Testing Hypothesis – Basic Elem Notes	1978
152	35	A Critical Theorem with Regard to Weak Limit Laws	1976
152	40	Statistics 641 – Notes	n.d.
153	11	Statistics 648 – Estimation	n.d.
153	20	Statistics 661 – An Example of So-Called Sequential	1978

153	39	Statistics 585 – Lectures on the Analysis of Designed/Comparative Experiments, Prepared by T. P. Speed	1978
155	8	Statistics 661 – Notes	1973
155	31	Statistics 611 – Notes and Exams	1974-1986,n.d.
156	1	Chapter 2 – Models	n.d.
156	3	Statistics 641	1980
156	4	Statistics 512 – Exams and Notes	1988
156	9	Statistics 511 – Notes and Exams	1979-1985,n.d.
156	10	Statistics 536-537 – J. F. C. Kingman Notes	1977-1978
169	1	Paul Siegel – Behaviour Genetics	1984

Description of series

Series 16	Department of Statistics	1941-1995,n.d.
extent:	.764 linear ft. (92 folders) Boxes 138, 163, 174-176, 185-192	
description:	This collection encompasses correspondence within the Department of Statistics at Iowa State University as well as records of faculty vacations, staff listings, and announcements. Dr. Kempthorne was instrumental in organizing and participating in the Visiting Lecture Program at Iowa State and this collection includes various correspondence between the Statistics Department and those visiting.	

Container list

Box	Folder	Title	Dates
138	6	Department of Statistics Faculty – Announcements	1991

138	7	Governor's Science Medal	1988
138	8	Iowa Stat-ers Seminar Announcements	1986-1994
138	9	Lecture and Seminar Announcements – Miscellaneous	1991-1995
138	10	Picture Directory – Statistical Laboratory and Department of Statistics	1983-1984
138	11	Statistics Faculty	1988-1991
138	12	Statistical Laboratory – Fiftieth Anniversary	1983
138	13	Statistical Laboratory Lecture – Announcements	1990-1992
138	14	Statistical Laboratory Lecture – Announcements	1993-1995
163	5	Stat Lab Travel Authorizations	1964-1965
163	6	Stat Lab Vacation Sheets	1963-1964
174	5	Course Requirements, Textbooks, Schedule of Classes	1957-1958
174	6	Stat Lab – Faculty Listing	1939- 1962,n.d.
174	7	Textbooks for Statistics Courses	1959-1960
174	8	Textbooks for Statistics Courses	1948-1970
174	9	Report on Bankhead-Jones Projects	1948
174	10	Stat Lab – Staff Listings, Publicity	1949-1958
174	11	Statistics Lab – Visitors: Atiqullah, Dr. M.	1967- 1968,n.d.
174	12	Stat Lab Visitors – Correspondence	1966-1967
174	13	Stat Lab Visitors – Correspondence	1969-1970
174	14	Stat Lab Visitors – Correspondence, Registration	1954-1955
174	15	Stat Lab Visitors – Correspondence	1956-1957
175	1	Stat Lab Visitors – Correspondence	1956-1957
175	2	Stat Lab Visitors – Correspondence	1955-1956
175	3	Stat Lab Visitors – Correspondence	1959-1960
175	4	Stat Lab Visitors – Correspondence	1965-1966
175	5	Stat Lab Visitors – Correspondence	1964-1965
175	6	Stat Lab Visitors – Correspondence	1963-1964
175	7	Stat Lab Visitors – Correspondence	1962-1963
175	8	Stat Lab Visitors – Correspondence	1962-1961

175	9	Stat Lab Visitors – Correspondence	1960-1961
175	10	Invited Lecturers	1957-1958
175	11	Enrollment (Stat Dept.)	1950-1963
176	1	Course Offerings (Stat Dept.)	1949-1961
176	2	Stat Lab Visitors	1952-1953
176	3	Stat Lab Visitors – Various Correspondence	1950-1952
176	4	Stat Lab Visitors – Correspondence	1958-1959
176	5	Stat Lab Visitors – Correspondence	1957-1958
176	6	Stat Lab Visitors – Correspondence	1950-1951
176	7	Seminar Notices	1949-1950
176	8	Seminar Notices	1955-1956
176	9	Seminar Notices	1957,n.d.
176	10	Seminar Notices	1952-1953
176	11	Seminar Notices	1950-1951
176	12	Seminar Notices	1960-1961
176	13	Seminar Notices	1957-1958
176	14	Seminar Notices	1954-1955
176	15	Seminar Notices	1953-1954
185	1	Stat Lab – Job Specification Cards	1948- 1953,n.d.
185	2	Equipment Inventory Cards	n.d.
185	3	Absence Requests	1961- 1965,n.d.
185	4	Agricultural Project Statements	1964-1965
185	5	Sampling Research Statements	1964-1965
185	6	AES – Statistics Statements	1964-1965
185	7	Stat Lab – Current Expense Statements	1964- 1965,n.d.
186	1	Numerical Analysis and Programming Services –Monthly Billings	1964-1965
186	2	Stat Lab – Revolving Fund Departmental Statements	1964-1965
186	3	Survey Service Bills – Sampling Projects	1964-1965

186	4	Soil Conservation Commission Accounts and Ohio Wildlife Accounts	1964-1965
186	5	Intramural Purchase Orders – File 1	1964-1965
186	6	Intramural Purchase Orders – File 2	1964-1965
186	7	Vacation and Sick Leave Records	1964-1965
186	8	Purchase Requisition Sheets	1964-1965
186	9	Green Sheets and Budgets	1965-1965
187	1	Purchase Orders	1964-1965
187	2	Travel Vouchers by Months (File 1)	1964-1965
187	3	Travel Vouchers by Months (File 2)	1964-1965
187	4	Census Contract Projects, USDC Census	1964-1965
187	5	Cash Receipts Reports (Stat. Lab Rev. Fund)	1964-1965
187	6	Old Inventory Sheets and Machine Lists	1962-1963
187	7	Statistics Current Expenses	1964-1965
187	8	Hourly Payroll Sheets	1964-1965
188	1	Stat Lab – Current Expenses	1964-1965
188	3	Stat Lab – Visitors	1968-1969
188	4	Dean's Office Correspondence	1968-1969
189	10	1972 Summer Institute for College Teachers	1971-1972
189	11	NSF Summer Institute in Statistics (File 1)	1968-1969
189	12	NSF Summer Institute in Statistics (File 2)	1968-1969
190	1	NSF Summer Institute in Statistics (File 3)	1968-1969
190	2	NSF Summer Institute in Statistics (File 4)	1968-1969
190	3	2 Wk. Summer Institute in Statistics – Voc. Ed. Dept.	1967-1969
190	4	Demonstration Training Program	1964
190	5	Stat Summer Institute – Dept. Statements	1961
190	6	Summer Institute	1961
190	7	International Training Program	1960- 1969,n.d.
190	8	Demonstration Training Program	1965,n.d.
190	9	Cooperative Summer Institutes	1961-1963

191	1	Joint Wyoming Summer Session	1958- 1959,n.d.
191	2	Summer Institute Statistics	1959- 1960,n.d.
192	1	USDA-AID: Course in Statistics at Chapingo	1967
192	7	Budgets for Mexico Project	1966- 1971,n.d.
192	8	Mexico Project: Budgets and Fiscal Matters	1965-1970

Description of series

Series 17 **Graduate Thesis** **1959-
1993,n.d.**

extent: .172 linear ft. (21 folders)

Boxes 138-139, 154, 169, 178-179, 191

description: Dr. Kempthorne saw 44 Ph.D. students complete their doctorates at Iowa State as well as 16 other students that completed their master's programs under his guidance. This collection includes selected Theses from graduate students as well as dissertations and Oscar Kempthorne's comments.

Container list

Box	Folder	Title	Dates
138	15	Carvalho, José – Comments on Thesis	1984
138	16	Coey, Kevin – Suggestions on Thesis	1991
138	17	Emigh, Theodore Howard – Summary of Thesis	1974
138	18	Emigh, Theodore Howard – Thesis	1974
138	19	Lewis, Jerry Wayne – Thesis	1983
138	20	MacNeil, Andrew Rowan	1976
139	1	Penner, Don L. – Thesis: Creative Component	1978
139	2	Taska, Masao – Dissertation	1959- 1980,n.d.
139	3	Wang, Kui-Jang – Master's Degree	1987
139	4	Wilson, Robert S. – Thesis	1993

139	5	Yeh, Ching-Ming – Thesis	1977
154	2	Hansen, James N.	1974
154	3	Gotway, Carol Anne – Dissertation	1989
169	3	Carvalho, Jose – Thesis, Rough Draft	n.d.
178	9	Hallaman, Karen A.	1975
178	10	Noorbaloochi, Siamek	1978
179	1	Shih-Chuah Cheng – Dissertation	1978
179	2	Cotter, Sarah Catherine	1973
179	3	Mathew, Thomas	1981
179	4	Niknian, Minoo	1979
191	9	Chapingo Project – Grad Student Theses	1966

Description of series

Series 18 **Reference Materials** **1819-1994,n.d.**

extent: 1.332 linear ft. (160 folders)
Boxes 140-143, 151-158, 163-164, 169-170, 174, 177-178, 189, 191

description: This collection includes various articles, clippings, reports and other works written by authors other than Oscar Kempthorne and kept for reference. Some notes and comments authored by Dr. Kempthorne are also included.

Container list

Box	Folder	Title	Dates
140	1	Axiomatizations – Meeden	n.d.
140	2	Barnard et. al – Battese	1962
140	3	Basu – Comments	1978
140	4	Birnbaum – Jensen	1970
140	5	Birnbaum – Letters	1970
140	6	Birnbaum – Mensing	1970
140	7	Boole – Jensen	1970

140	8	Buehler – Feddersen	1963
140	9	Buehler – Pyne	n.d.
140	10	Burt and Howard – Multifactorial Theory of Inheritance and its Application to Intelligence	n.d.
140	11	Cormack, Jean – Gene Maker Loss Induced by the Transposable Element Σ_n , in Maize	1993
140	12	Cox, David R. – On a Discriminatory Problem Connected with the Works of Plato	1959,n.d.
140	13	Doerfler, Thomas Eugene – The Determination of Causal Factors Related to Fatigue Life	1994
140	14	Early Neyman	1967
140	15	Fiducia – Additional Views	1970
140	16	Fiducia – Other Points	n.d.
140	17	Fienburg, Stephen E. – Experimental and Sampling Structures	1986
140	18	Fink, A. M. – How to Polish Off Median Polish	1986
140	19	Fisher	1956
140	20	Fisher, Ronald A. – Bibliography	1990
140	21	Fisher, Ronald A. – Fiducia	1930
140	22	Fisher, Ronald A. – Mahalanobis	1938
140	23	Fisher, Ronald A. – West	1934
140	24	Fisher, Ronald A. – Correlations Between Relatives on the Supposition of Mendelian Inheritance	1918
140	25	Fisher, Ronald A. – Tests of Significance: Overheads	1979
140	26	Genetics and Evolution	n.d.
140	27	Good, I. J.	1950
140	28	Griffing, Bruce – A Critique of the Genetic Aspects of the Jensen I. Q. Argument	n.d.
140	29	Hacker – Grinell	1975
140	30	Hacking – West	1965
140	31	Hacking – Zyskind	n.d.
140	32	Hewitt, Edwin	1965
140	33	Hinklemann, Klaus – On the Efficiency of Blocking in Randomized Complete Block and Latin Square Designs	1988

140	34	Jeffreys	1961
140	35	Jensen	1970
140	36	Jordan – Kempthorne Papers	1975
140	37	Keynes	n.d.
140	38	Keynes	1921
140	39	Keifer – Bibliography	n.d.
140	40	Laplace	1819
140	41	Lindley, D. V. – A Statistical Paradox	1947-1957
140	42	Luce and Raiffa	n.d.
140	43	Luce and Raiffa – Utility	1957
140	44	Maximum Likelihood Approaches to Variance Component Estimation and to Related Problems – ARL TR 75-0175	1976
140	45	Milnor Axiomatics	n.d.
140	46	Neyman – Ghai	1970
140	47	Neyman – Pearson	1967
140	48	Notes on Theory of Estimation	1949-1950
141	1	Natural Selection	n.d.
141	2	Nouri, Esmat – The Mathematical and Statistical Theory of Culling Selection I	n.d.
141	3	Nouri, Esmat – The Mathematical and Statistical Theory of Culling Selection II	n.d.
141	4	Nouri, Esmat – The Mathematical and Statistical Theory of Culling Selection III	n.d.
141	5	Nouri, Esmat – On the Continuation of a Discrete Process	n.d.
141	6	Numerical Optimization in General and in Particular Examples	n.d.
141	7	Numerical Optimization and Kantorovich	1987
141	8	Pearson, Karl – Pearson	n.d.
141	9	Pearson – Pollack	1970
141	10	Pollack, Edward – Revision of Genetic Statistics	1973
141	11	Popper, Edward – Induction	n.d.
142	1	Price, Richard – Letter	1958
142	2	Probability Theory	n.d.

142	3	Qureshi, A. W. – Technical Reports	1963-1964
142	4	Ramsey	1926
142	5	Rao, C. Radhakrishna – Some Statistical Methods for Comparison of Growth Curves	1958
142	6	Reichenbach	1949
142	7	Richards, Winston A. – Randomization Analysis of Covariance in the Balanced CRD	1983
142	8	Sachs, Mendel – Clock Paradox	1971-1972
142	9	SAS Institute Inc. – Technical Report	1978
142	10	Satre, Jean-Paul – Article in Des Moines Upon Death	1980
142	11	Savage, L. J.	1954
142	12	Savage, L. J. – Additional Notes	n.d.
142	13	Savage, L. J. – Comments	n.d.
142	14	Savage, L. J. – Methuen	1962
142	15	Science Excerpts	1991
142	16	Seely, Justus and George Zyskind – Linear Spaces and a Minimum Variance Unbiased Estimation	1969
142	17	Skarpness, Brad – mixed Experiment	n.d.
142	18	Skinner, Christopher J. – Seminar	1990
142	19	Thompson, T. Scott – Estimation of Best Predictors of Binary Response	1986
142	20	Thompson, W. A. Jr. – Show Me Evidence	1992
142	21	Van Aarde, Mauritz – Foundation	1976-1983
142	22	Venn	1888
142	23	Wald, A.	1950
142	24	Warde on Lindley	1970
143	1	White, Robert F. – Radio Immune Assay	1974
143	2	White, Robert F. – Rank Tests	1973
143	3	Williams, E. J. – Simple Derivation of the Derivation of the Multiple Correlation Coefficient	1978
143	4	Wright, Sewall – Biography	1992
143	5	Zyskind, George – Oblique Projections A Generalization of the Moore-Penrose Inverse and Statistical Application	n.d.

151	8	Diaconis, Persi and Laurel Smith – Residual Analysis for Discrete Longitudinal Data: Technical Report 131	1989
151	9	Good, I. J. – Reviews of Good Thinking: Technical Report 91-7	1991
151	30	Carvalho – Derivation	n.d.
152	15	Godambe - Concepts of Evidence	1979
153	25	Fisher, R. A. – Moments and Cumulants in the Specification of Distributions – Notes	n.d.
154	1	Naqvi, Syed Taqi Mohammed – Inference for Components of Variance Models	1970
154	4	Buehler, Robert J. – Technical Reports: Some Exact and Approximate Ancillary Statistics #438	1984
154	5	Kleffe and Rao – On Consistent Nonnegative Quadratic Estimates of Variance Components in ANOVA Models	1983
154	6	Sinha and Drygas – Robustness Properties of the F test and Best Linear Unbiased Estimates in Linear Models #82-28	1982
154	7	Van Aarde – Covariances of Relatives in Random Mating Populations with Linkage #MC2	1963
154	8	Stein, Charles – On the Coverage Probability of Confidence Sets Based on a Prior Distribution #180	1981
154	9	Manski – Estimation by the Analogy Principle	1986
154	10	Rojas – The Analysis of Tillage Experiments	1958
154	11	Seely and Zyskind – Linear Spaces and Minimum Variance Unbiased Estimation #12	1969
154	12	Shafer, Glenn – Partial Ancillarity #124	1979
154	13	Hinkley, David – Likelihood as Approximate Pivotal Distribution #360	1980
154	14	Greenwood, J. Arthur – Distribution Theory of Some Angular Variates #1.13	1959
154	15	Gabriel and Hall – Re-randomization Inference on Regression and Shift Effects #81/7	1980
154	16	Samuels, Casella, McCabe – Are Blocks Different from Random Factors? #88-26 (Purdue)	1988
154	17	Rao, Colin, Kumar – Analysis of Clustered Data Involving Categorical Response Variables #116 (Carleton University)	1988

155	1	Cook and Thibodeau – Outlier Resistant Design – Foundations #290 (University of Minnesota)	1977
155	2	Geisser, Seymour – A Remark on a Model Criticism Technique #409 (University of Minnesota)	1982
155	3	Rao, C. R. – Likelihood Ratio Tests for Relationships Between Two Covariance Matrices #82-36 (University of Pittsburgh)	1982
155	4	Cook & Weisburg – Regression Diagnostics #538 (University of Minnesota)	1990
155	5	Gabriel & Hsu – Evaluation of the Power of Re-randomization Tests, with Application to Weather Modification Experiments #81/11 (University of Rochester)	1981
155	6	Petrondas & Gabriel – Multiple Comparisons by Re-randomization Tests #82/01 (University of Rochester)	1982
155	22	Dambrosia, James M. – Why Data Bases Should Not Replace Randomized Clinic Trials & Statistical Considerations for a Medical Data Base	1979
155	26	Jordan and Kempthorne – Referee’s Report: Exploring a Multi-Dimensional Lattice	1973
155	27	Reprint Series	n.d.
155	28	Skarpness, Bradley – The Mixed Experiment	n.d.
156	2	Pirie, Walter R. – Stats Magazine	1989
156	5	Box, George E. – Sampling and Bayes’ Inference in Scientific Modeling and Robustness	n.d.
156	11	Ancillary III	n.d.
156	4	Jaynes, E. T. – The Marginalization Paradox	1977
157	1	D. Basu – Current Issues in Statistical Inference: Essays in Honor	1992
157	2	Shockley, William, Deposition	n.d.
157	4	Is A Description of a Data Set as a Realization of a Stochastic Process Appropriate and Reasonable?	n.d.
157	5	Comments on Statistical Information and Likelihood by D. Basu	1978
157	10	Inference from Surveys	n.d.
157	11	Randomization: Introduction	1981
157	12	Randomization	n.d.

157	13	Random Fractions in Symmetrical Prime-Power Factorial Systems	n.d.
157	14	Random Fractions in Symmetrical Prime-Power Factorial Systems (2)	n.d.
157	15	The Randomized Blocks Design When Additivity is Assumed, Perhaps Incorrectly and When It's Not Assumed	n.d.
157	16	Discussion on "The Bayesian Outlook and its Application"	1969
157	17	Development of the Design Experiment Over the Past Two Years	n.d.
157	18	Exploring a Multi-Dimensional Lattice (with Leon Jordan)	n.d.
157	19	Some History and Significance Tests, Evidence, and Ancillarity – Drafts	1984
158	11	Assessing the Link Function	n.d.
158	12	Shockley, William Trial – Defendants Exhibits	1972-1981
163	4	Mexico Project: Early Proposals	1963-1964,n.d.
164	1	Tamura, Roy N., Bradley J. Mills, and Jeffrey K. Lovelace – Constrained Randomization in a Sequential Efficacy Trial	1991
169	4	Diallel Crosses – Genetics	n.d.
169	6	Pollak, Edward – Genetics Notes	1973
169	11	Foutz, Robert V. and Birch	1983
169	13	Hayman, H. J. – The Hayman Diallel 'x'	n.d.
169	14	Jensen, Don – The Elementary Base	n.d.
169	17	Stat Lab – Soybeans	1983
169	21	G. F. Sprague and S. A. Eberhart – Corn Breeding	n.d.
170	6	Appendix to Design of Experiments Manuscripts	1972
174	3	Stat Laboratory – Plans, Blueprints, Equipment and Correspondence	1939-1959,n.d.
174	4	Computer Science Building – Floor Plans, Elevations	1967,n.d.
177	1	Does An Estimator's Distribution Suffice? (Blyth, Colin R. and Pramod K. Pathak)	1984
177	3	Book – Colleen Moore's Fairy Castle	n.d.
178	1	Appendix I, Table I	n.d.

184	5	General Forms of Distributions Admitting Sufficient Statistics for Parameters in Non-Regular Cases (Huzurbazar, V. S.)	n.d.
184	6	Location and Scale Parameters and Sufficient Statistics (Hurzurbazar, V. S.)	n.d.
191	3	Mexico Project Report	1966-1968
191	4	Mexico Project Survey	1967-1968
191	5	Mexico Project: Proposals and Agreements (File 1)	1965-1971,n.d.
191	6	Mexico Project: Proposals and Agreements (File 2)	1965-1971,n.d.
191	8	Mexico Project: Correspondence with Prospective Staff	1964-1969

Description of series

Series 19 **Reviews** **1971-1994,n.d.**

extent: .188 linear ft. (23 folders)
Boxes 143-144

description: Oscar Kempthorne wrote many personal reviews, notes, and comments on articles, books, and reviews. Comments, reactions, and reviews of colleagues' publications can be found here.

Container list

Box	Folder	Title	Dates
143	6	Strata for Randomized Experiments – Bailey: Review for Royal Statistical Society	1990
143	7	Basu Book	1990
143	8	Berg, Colin B. and L. J. Wei – Discussion and Comments	1989-1990
143	9	Blyth, Clolin R. – Review	1991
143	10	Buonaccorsi – Randomization and the Linear Model	1994
143	11	Calinski – The Randomization for Experiments in Block Designs and its Statistical Implications	1990
143	12	Calinski – Kageyama Paper Review	1990-1991
143	13	Cressie, Noel A. C. – Review and Recommendation	1987-1990

143	14	Dawid, A. P. – Review and Comments	1986-1988
143	15	Fisher, Joan Box – Review	1975
143	16	Mead, R. – Comments	1989
143	17	Nordskog, Arne W. – Reactions to Paper	1985-1986
144	1	Pollack, Edward – Genetic Variance: Comments	1971- 1974,n.d.
144	2	Preece, D. A. – Biometrics Review	1990
144	3	Puntanen and Styan – Comments	1988
144	4	Searle – Linear Models for Unbalanced Data: Book Review	1988
144	5	Silson – Additive Gene Systems	1989
144	6	Soric, Branko – Comments on Statistical Discoveries	1988
144	7	Thompson, W. A. – Show Me Evidence	1992
144	8	Turing, Alan – Book Reviews	1986
144	9	Unaccepted Reviews – Behavioral and Brain Sciences	1991-1994
144	10	Van Aarde, I. Mauritz R. – Three Different Theories of Statistical Testing	1992-1994
144	11	Wilson, Sue R. – Comments on A Note on the Correct Definition of Additive Deviation and Dominance Deviation	1979

Description of series

Series 20	Writings, Lectures, Symposiums, Speeches, Comments and Conferences	1930- 1994,n.d.
extent:	1.288 linear ft. (155 folders) Boxes 144-153, 155-157, 167, 169, 177, 180	
description:	In his 44 years at Iowa State, Dr. Kempthorne traveled extensively within the United States as well as to other continents giving lectures, speeches, symposiums, and attending comments. This collection includes notes and reference materials from these meetings, conferences, symposiums, lectures, and speeches. Also included are various writings, photographs from his travels, coauthored papers, memorabilia, and memorials.	

Container list

Box	Folder	Title	Dates
144	12	Agreement with Leroy Folks for Introduction to Genetic Statistics	n.d.
144	13	Amherst Symposium	n.d.
144	14	Analysis of Covariance	1982
144	15	Bancroft, Theodore Alfonso – Memorial Lecture at the Statistical Laboratory	1986
144	16	Bell Core	1985
144	17	Book Reviews – Published by Oscar Kempthorne	n.d.
144	18	Carleton University – Statistics Day: Data Analysis	1981
144	19	Charlesworth	n.d.
144	20	Colorado Symposium – Statistical Design	1988-1989
144	21	Comments Based on Fisher – Statistical Methods and Scientific Inference	1956
144	22	Comparative Experiments and Randomization – Federer: Cornell Conference	1986
144	23	Computation Variables	n.d.
144	24	Conditional Expectation	n.d.
144	25	Controversies in Probability and Inference – Seminar at Penn States	1973
145	1	Degrees of Freedom and Identifiability	1981
145	2	Hinklemann & Kempthorne – Book Drafts: Design and Analysis of Experiments	1990-1991
145	3	Hinklemann & Kempthorne – Book Drafts: Design and Analysis of Experiments	1990-1991
145	4	Dow Chemical Company – Lecture	1989
145	5	Extracellular Space Techniques	1954
145	6	Fiftieth Anniversary Speech – Thanks	1983
145	7	Fisher – Fiducia: Inverse Probability	1930
145	8	Fisher, R. A. – 1918 Paper	n.d.
145	9	George Zyskind Memorial Lecture	1974
145	10	Harvard Lecture – Arthur R. Jensen	1969-1975
145	11	Heredity and I.Q. – Arthur R. Jensen Book	1983-1985

145	12	Impact of Cross-Disciplinary Activity in Statistics and Agriculture	1986
145	13	International Conference on Quantitative Genetics – Opening Talk	1975
145	14	International Conference on Quantitative Genetics – Raleigh	1986-1987,n.d.
145	15	Kempthorne Conference – Participants	1989
145	16	Last Lecture – Notes	1991
146	1	Last Lecture – Speech	1991
146	2	Least Square Theory Simplified – Project 890	1976
146	3	Least Squares with a General Two-part Model	n.d.
146	4	Lecture at Tahoe	1984
146	5	Life of Statistics – Success and Failure: Hershey, PA	1991
146	6	Linear Models and Variance – Notes	1976,n.d.
146	7	Linear Models – Miscellaneous	1986
146	8	Math – Genetics	1963
146	9	National Institute of Health – Grant Application	1981
146	10	Note on Degrees of Freedom and Identifiability	n.d.
146	11	Notes on REML for the Mixed Model – Project 890	1976
146	12	“O” and a little “o”	n.d.
146	13	Optimization	1984
146	14	Orthogonal Main Effect Plans – Kempthorne and Addelman	1961
146	15	Overview of the Field of Quantitative Genetics	1987
146	16	Padua, Fortunato Pesarin	n.d.
146	18	Quantitative Genetics	n.d.
146	19	Quantitative Genetics Seminars – Hinkleman-Quershi-Gill	1962
146	20	Random Allocation Design – B. V. Shah & Kempthorne	1962
146	21	Randomization Seminar	1986
146	22	Real Analysis	n.d.
147	17	Path Analysis of Covariance	n.d.

147	1	Related Papers to Book	1951-1957,n.d.
147	2	Relationship Between Mathematics and Statistics	1987
147	3	Restricted Randomization	n.d.
147	4	Role and Future of Statistics	n.d.
147	5	Sampling, Inference, Experimental Inference and Observation Inference	1979
147	6	Sampling Theory of Enumerative Inference	1980
147	7	Scheffé	1960
147	8	Scientific Process	n.d.
147	9	Seminar on Paper by Jensen	1970
147	10	Snedecor, George W. – Memorial Resolution	n.d.
147	11	Statistical Design of Experiments – Historical Overview	1986
147	12	Statistical Methods and Science	1984
147	13	Statistics Seminar	1969
147	14	Substitutional Load – Survival of the Fitness	1974
147	15	Symposium on Behavior Genetics – University of Illinois	1993
147	16	Teaching of Statistics: Contents Versus Form	1980
147	17	Teaching of Statistics – Melbourne	1978
147	18	Technical Report – Linear Models, Statistical Information, and Statistical Inference	1971
147	19	Theory of Equations, Determinants, Matrices, and Quadratic Forms – Appendix of Kempthorne's Design and Analysis	1972
147	20	Tukey Affair	n.d.
147	21	Upjohn Meeting – Speech	1989-1990
147	22	What is Analysis of Variance?	1986
147	23	What is Applied Statistics	1986
147	24	Where are the Americans? A Comment	1986
147	25	Wright Centennial Symposium	1990
147	26	Zyskind Lecture	1987
147	27	Automobile – Oklahoma	1962
147	28	Automobile – Receipts	1985

147	29	Battese, George E.	1994
148	1	Dook Bowden	1959-1960
148	2	Commencement Program	1984
148	3	Computer – Directory Searches	1990
148	4	Computer – Help 2	n.d.
148	5	Computer – Help 1	n.d.
148	6	Computer – Bud Meeden	1990
148	7	Computer – Miscellaneous Info	1990
148	8	Computer – Miscellaneous Information	1992-1994
148	9	Computer – Printing	n.d.
149	1	Computer – Rand	n.d.
149	2	Computer – Software Carousel	1989-1990
149	3	Computer – Zenith	1990-1991
149	4	Fryer, Holly and Beth	1992
149	5	Garland, Mrs. L. J. – Condolences	n.d.
149	6	Harvey, L. M. – Cambridge: Sc.D. Degree	1958
149	7	Income Tax Extension	1961
149	8	Industrial Employment Review Board	1950
149	9	Iowa State University Salary	1973-1982
149	10	Kempthorne, Jill	1970-1973
149	11	Kempthorne, Oscar – Vitae	1957-1979
149	12	Kempthorne, Peter	1994
149	13	Lyman, Richard W. – Stanford University: Private Correspondence	1972
149	14	Martin, William – Settlement of Estate	1961
149	15	McDowell's Insurance Agency	1962
149	16	Memorabilia	1974-1987
149	17	News Press Daily – Oklahoma	1962
149	18	Miscellaneous Information – 1991	1991
149	19	Miscellaneous Information – 1992	1992
149	20	Miscellaneous Information – 1993	1993

149	21	Miscellaneous Information – 1994	1994
149	22	Newspaper Clippings	1983-1988
149	23	Minoo Niknian – Personal	1978-1988
149	24	Oklahoma State University	1961
149	25	Post-War Credit	1957
149	26	Quotes	1977-1978
149	27	Souvenirs – India and London	1974-1975
149	28	Television Interviews	1991
149	29	University of Ioannina, Greece – Honorary Degree	1993
150	1	Baye's Grave – Photograph	1975
150	2	Department of Mathematical Statistics, New Delhi- Photograph	1974
150	3	Newspaper Clippings – Sir Cyril Burt and IQ Heredity	1976-1977
151	4	Speed, Terence	1987
151	8	Which Sums of Squares Are Best In Unbalanced ANOVA?	1993
151	15	Linear Models (Lecture II): The Good Generalized Inverse	n.d.
151	41	Science, Statistics and Philosophy	1984
152	7	Is Statistics Dead?	1974
152	16	Statistics, Data Analysis, Probability, & Measure Seminar	n.d.
152	26	Seminar: Washington – Variability	1979
152	31	Genetics Seminar: Selection Theory and Theory of Quantitative Genetics	1984
152	33	Heredity Seminar – Analysis of Determination	1970
153	6	Lectures on Linear Models	n.d.
153	15	Seminar: What is Statistics?	n.d.
153	19	Florida State: Tests of Significance	1978
153	26	Quantitative Genetic Seminar – Genetic Loads: Theory and Application	1969
155	9	Seminar: K. Ruben Gabriel – On Techniques of Re- randomization Inference	1981
155	29	Tahoe Meeting – Ancillaries	n.d.
155	30	Lecture at Tahoe	1984

156	12	Ancillaries – Tahoe Overheads	1984
157	6	Seminar: The Mixed Linear Model and Components of Variance	1977
157	7	Seminar: What Data Processes Should Working Statisticians and Scientists Use?	1981
157	8	Seminar: The Role of Statistics in Animal Statistics	1984
157	9	Minnesota Lecture: Tests of Significance in Experimental and Observational Contexts	1978
167	10	Conference on Cranio-Facial Growth, Ann Arbor, MI	1967
167	11	Fifth Berkeley Symposium on Mathematical Statistics and Probability	1965-1966
167	12	Cornell Conference Lecture Honoring W. T. Federer	1986
169	2	George Zyskind – Memorial Lecture	1974
169	7	Fisher Lecture	1981-1983
169	8	Fisher Lecture – Ballots	1985-1986
169	9	David, Herbert A. – Appreciation	1984
169	18	Virginia Polytechnic Institute	1985
169	19	In Memory of Paul Homeyer	n.d.
169	20	Annual Fall Quality / Productivity Conference in Ames, IA – Improving Quality and Productivity at Various Levels	1987
177	19	Speech – In Memory of Paul Homeyer	1984
180	1	Conference on Limit Theorem in Statistics	1969