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15/24/31 Liberal Arts and Sciences Zoology Arthur W. Ghent Papers, 1949 - 2001

## **EVENTS IN GHENT'S LIFE**

Born: 1927, Toronto, Ontario, Canada. Entered USA:Sept. 1, 1960, Detroit.

- 1946 Entered University of Toronto.
- 1950 B. Sc. F., with Honours, University of Toronto.
- 1950 Appointed Agricultural Research Officer, Forest Insect Laboratory, Sault Ste. Marie, Ontario, Canada; appointment held on roughly an alternate-year basis, with intervening years on educational leave, till 1959.
- 1950 Entered the Graduate School, Dept. of Zoology, University of Toronto.
- 1950 Awarded Robert W. Lyons Fellowship, University of Toronto.
- 1952 Awarded Ontario Research Council Scholarship, University of Toronto.
- 1952 Demonstrator in Zoology, Dept. of Zoology, University of Toronto.
- 1954 M. A., awarded upon completion of thesis: "A study of the Group-Feeding Behavior of Larvae of the Jack-Pine Sawfly, <u>Neodiprion banksianae</u>Roh." Supervisor: Dr. C. E. Atwood.
- 1955 Entered the Graduate School, Dept. of Zoology, University of Chicago.
- 1955 Awarded University of Chicago Fellowship.
- 1956 Awarded University of Chicago Fellowship.
- 1956 Elected Sigma Xi, Chicago Chapter.
- 1959 Resigned, Canadian Government Service, to complete Ph. D. studies.
- 1960 Ph. D., awarded upon completion of thesis: "Studies of the behavior of <u>Tribolium</u> flour beetles. "Supervisor:Dr. Thomas Park.
- 1960 Appointed Assistant Professor of Quantitative Zoology, University of Oklahoma, Norman, Oklahoma.
- 1964 Appointed Assistant Professor, School of Life Sciences, University of Illinois, Urbana, Illinois.
- 1965 Appointed Associate Professor, School of Life Sciences, University of Illinois, Urbana, Illinois.
- 1970 Appointed Professor, School of Life Sciences, University of Illinois, Urbana, Illinois.

- 1973 Joint appointment as Professor, School of Basic Medical Sciences, University of Illinois, Urbana, Illinois.
- 1974 Participant, Visiting Lecture Series on Mathematical Biology, Colby College, Maine.
- 1975 Elected, American Society of Naturalists.
- 1983 Appointed, Associate Editor for Statistical Biology, American Midland Naturalist.
- 1984 Invited lecture, "Mortality and Size-Class Distribution Patterns in Conifer Plantations", Weyerhaeuser Co., Tacoma, WA, Sept. 20-24.
- 1985 Invited lecture, "Competition Effects in Red Pine and White Spruce Plantations", Ontario Ministry of the Environment, Maple, Ontario, August 17.

#### RESEARCH CONTRIBUTIONS

- 1952. A technique for determining the year of the outsidering of dead trees. *Forestry Chronicle* 28(4):85-93.
- 1954. The treatment of decayed wood from dead trembling aspen trees for growth-ring analysis. *Forestry Chronicle* 30(3):280-283.
- 1955. A guide for the re-alignment of off-center increment borings. *Forestry Chronicle* 31(4):353-355.
- 1955. Oviposition behaviour of the jack-pine sawfly, <u>Neodiprion americanus banksianae</u> Roh., as indicated by an analysis of egg clusters. *Canadian Entomologist* 87(6):229-238.
- 1956. Linear increment in width of the head capsule of two species of sawflies. *Canadian Entomologist* 88(1):17-23.
- and D. A. Fraser, J. B. Thomas. 1957. Studies of regeneration in forest stands devastated by the spruce budworm. Part l. Evidence of trends in forest succession during the first decade following budworm devastation. *Forest Science* 3(2):184-208.
- 1958. Studies of Regeneration in Forest Stands Devastated by the Spruce Budworm. Part 2. Age, Height Growth and Related Studies of Balsam Fir Seedlings. *Forest Science* 4(2):135-146.
- 1958. Studies of the feeding orientation of the jack pine sawfly, <u>Neodiprion pratti banksianae</u> Roh. *Canadian Journal of Zoology* 36:175-183.
- 1958. Mortality of overstory trembling aspen in relation to outbreaks of the forest tent caterpillar and the spruce budworm. *Ecology* 39(2):222-232.
- 1959. Row-type oviposition in <u>Neodiprion</u> sawflies as exemplified by the european pine sawfly, <u>N. sertifer</u> (Geoff. ). *Canadian Journal of Zoology* 37:267-281.
- 1960. A study of the group-feeding behaviour of larvae of the jack pine sawfly, <u>Neodiprion pratti banksianae</u> *Roh. Behaviour* 16(1-2):110-148.
- and J. B. Thomas. 1960. Regularity in distribution of supernumerary needles on the terminal growth of young jack pine trees. *Forest Science* 6(4):331-333.
- 1962. On the anatomy of explanation. Part 1. The roles of inductive and deductive reason. *Bios* 33(2):74-81.
- 1962. On the anatomy of explanation. Part 2. Dependence on process, pattern, and time. *Bios* 33(3):133-144.
- 1963. On the anatomy of explanation. Part 3. Sequential and hierarchical description. *Bios* 34(1):11-23.
- 1963. Studies of behaviour of the <u>Tribolium</u> flour beetles. Part 1. Contrasting responses of <u>T</u>. <u>castaneum</u> and <u>T</u>. <u>confusum</u> to fresh and conditioned flours. *Ecology* 44(2):269-283.
- 1963. Kendall's "Tau" coefficient as an index of similarity in comparisons of plant or animal communities. *Canadian Entomologist* 95(6):568-575.

- 1963. A deficit of heresy. *The Biologist* 46(1-2):1-14.
- 1963. Studies of regeneration in forest stands devastated by the spruce budworm. Part 3. Problems of sampling precision and seedling distribution. *Forest Science* 9(3):295-310.
- and Joan L. Larson. 1964. Regularities in the size and orientation of juniper fragments attached to the cases of the bagworm, <u>Thyridopteryx ephemeraeformis</u> (Haw). *Canadian Entomologist* 96(8):1097-1106.
- and Houser, Alfred. 1964. An experimental gill net based on the principle of the Latin square. *Transactions of the American Fisheries Society* 93(3):233-242.
- 1964. On the goals of science. The Biologist 47(1-2):1-16.
- and B. Grinstead. 1965. A new method of assessing contagion, applied to a distribution of redear sunfish. *Transactions of the American Fisheries Society* 94(2):135-142.
- 1965. Number triangles yielding the numerators for exact solutions of the Wilcoxon rank sum test. *Canadian Entomologist* 97(7):701-715.
- 1965. Science, existentialism, and the search for a naturalistic ethic. *Bios* 36(3):103-125.
- 1966. The logic of experimental design in the biological sciences. *Bioscience* 16(1):17-22.
- 1966. Studies of behavior of the <u>Tribolium</u> flour beetles. II. Distributions in depth in fractionable shell vials. *Ecology* 47(3):355-367.
- 1966. A model of crossing-over based on alternately-oriented dipoles. *J. Theoret. Biol.* 11:87-111.
- 1966. Binomial corner-association assessment of contagion: A response to certain criticisms of the method. *Trans. Amer. Fish. Soc.* 95(4):437-441.
- 1967. On teaching "Population biology"--whatever that may be. *The Biologist*49(1-2):1-11.
- 1967. Selected problems in biometry. I. Some applications of elementary set theory in biology. *Bios* 38:7-21.
- 1967. Selected problems in biometry. II. The structure of the binomial distribution. *Bios* 39:115-134.
- 1967. Selected problems in biometry. III. Chi square as an index of disagreement. *Bios* 38(4):161-179.
- and B. P. Hanna. 1968. Application of the "Broken Stick" formula to the prediction of random time intervals. *Amer. Mid. Nat.* 79(2):273-288.
- 1969. Selected problems in biometry. V. Applying the binomial in a research context. *Bios* 40(4):158-176.
- 1969. Studies of regeneration in forest stands devastated by the spruce budworm. IV. Problems of stocked-quadrat sampling. *Forest Science* 15(4):417-429.
- 1970. Principles of experimental design. <u>In</u>: The study of botany (P. Adams, J. J. W. Baker, G.

- E. Allen). Addison-Wesley Pub. Co., Calif.; Chap. 4, pages 41-50.
- and B. P. Hanna. 1971. An interval-distribution generator for sequences of elements of two kinds, suited to behavioral and ecological studies. *Amer. Mid. Nat.* 85(1):188-195.
- 1971. Selected problems in biometry. VI. The Poisson distribution. *Bios* 42(2):78-92.
- 1971. Theory and applications of exponential formulae in common problems of population growth. *The Biologist* 53(1):1-21.
- 1971. Theory and applications of several tests of sequential nonrandomness. *The Biologist* 53(4):169-214.
- 1972. A graphic computation procedure for Kendall's <u>tau</u> suited to extensive species-density comparison. *Amer. Mid. Nat.* 87(2):459-471.
- 1972. A method for exact testing of 2 x 2, 2 x 3, 3 x 3, and other contingency tables, employing binomial coefficients. *Amer. Mid. Nat.* 88(1):15-27.
- 1972. Selected problems in biometry. VII. Analyses of contingency tables by chi square. *Bios* 43(3):105-128.
- 1972. Calculation of equilibrium growth rates in a life-table format. *The Biologist* 54(4):137-139.
- 1973. Selected problems in biometry. VIII. Some applications of contingency tables in resarch. *Bios* 44(2):63-85.
- 1973. Gravity and the distribution of leaf shape in the trees of <u>Sassafras albidum</u>. *New Phytologist* 72:1141-1158.
- 1973. Theory and application of some nonparametric statistics. I. Exact solutions (extended by number triangles) to the Wilcoxon two-sample and paired-sample tests. *The Biologist* 55(4):149-177.
- 1974. Theory and application of some nonparametric statistics. II. Normal approximations to the Wilcoxon two-sample and paired-sample tests, and two related tests. *The Biologist* 56(1):1-31.
- 1974. Theory and application of some nonparametric statistics. III. Spearman's <u>rho</u> and the "rankit" substitution as measures of rank-order correlation. *The Biologist* 56(3):130-151.
- 1976. Theory and application of some nonparametric statistics. IV. Kendall's <u>tau</u> as a measure of rank-order correlation. *The Biologist* 58(1):10-29.
- 1976. Theory and application of some nonparametric statistics. V. <u>Tau</u>, <u>gamma</u>, and W as measures of rank-order correlation in contingency tables and multiple rankings. *The Biologist* 58(2):41-60.
- 1976. Lagged differences as a means of strengthening the Moore-Wallis test for a predominant upward or downward trend. *American Midland Naturalist* 96(1):144-159.
- and R. Singer and L. Johnson-Singer. 1978. Depth distributions determined with SCUBA, and associated studies of the freshwater unionid clams <u>Elliptio complanata</u> and <u>Anodonta</u>

- grandis in Lake Bernard, Ontario. Canadian Journal of Zoology 56(8):1654-1663.
- 1978. Computational shortcuts for the hypergeometric distribution: the appropriate generator where territoriality is suspected. *The Biologist* 60(4):113-122.
- 1979. Some considerations governing the selection of appropriate statistical procedures. I. Questions of numerical scale and research interest. *The Biologist* 61(2):59-73.
- 1981. Some considerations governing the selection of appropriate statistical procedures. II. Research involving nominal-scale data. *The Biologist* 63(2):48-68.
- 1981. Some consideration governing the selection of appropriate statistical procedures. III. Research involving ordinal-scale data. *The Biologist* 63:109-137.
- 1983. <u>Tau</u> as an index of similarity in community comparisons:an approach permitting the hypothesis of unequal species abundance. *Canadian Journal of Zoology* 61:687-690.
- 1984. <u>Gamma</u> as a paired statistic for replicate ordered samples in biology. *American Midland Naturalist* 112:192-195.
- 1984. Examination of five <u>tau</u> variants suited to ordered contingency tables, from the viewpoint of biological research. *American Midland Naturalist* 112:332-348.
- and Waldbauer, G. P. 1985. Flower associations and mating behavior or its absence at blossoms by Spilomyia spp. (Diptera, Syrphidae). *Great Lakes Entomologist* 17(1):13-16
- and Lorenzana, R., V. R. Beasley, W. B. Buck, G. R. Lundeen, and R. H. Poppenga. 1985. Experimental T-2 Toxicosis in Swine. I. Changes in Cardiac Output, Aortic Mean Pressure, Catecholamines, 6-Keto-PGF Thromboxane B, and Acid-Base Parameters. *Fundamental and Applied Toxicology* 5:879-892.
- and Lorenzana, R., V. R. Beasley, W. B. Buck. 1985. Experimental T-2 Toxicosis in Swine. II. Effect of Intravascular T-2 Toxin on Serum Enzymes and Biochemistry, Blood Coagulation, and Hematology. *Fundamental and Applied Toxicology* 5:893-901.
- and S. E. Franson. 1986. Changes in mortality and size-class spatial distribution patterns in preclosure and post-closure conifer plantations. *Forest Science* 32(3):559-75.
- and Kettler, M. K. and G. S. Whitt. 1986. Comparison of phylogenies based on structural and gene-expressional differences of enzymes in a family of teleost fishes (Salmoniformes: Umbridae). *Molecular Biology and Evolution* 3(6):485-498.
- 1987. <u>Tau</u> as an index of similarity in community comparisons: the opposite null orientations of contingency and correlation tests. *American Midland Naturalist* 117(1):221-2.
- and Stencel, J. 1988. Analyses of annual population counts of white and gray squirrels (<u>Sciurus carolensis</u>) in Olney, IL., 1976-1985. *American Midland Naturalist* 118(2):251-7.
- and Waldbauer, G. P., and J. G. Sternberg. 1988. Lakes Michigan and Huron limit gene flow between the subspecies of the butterfly <u>Limenitis</u> arthemis. *Can. J. Zool.*, 66:1790-1795.
- and Godshalk, C. P., and R. R. Badertscher II, M. K. Rippy. 1988. Quantitative ultrasonic assessment of liver size in the dog. *Veterinary Radiology* 29(4):162-167.

- and N. Zucker. 1990. A readily interpreted index of dispersion based on nearest-neighbor analyses. *American Midland Naturalist* 124:184-187.
- 1991. Insights into diversity and niche breadth analyses from exact small-sample tests of the equal abundance hypothesis. *American Midland Naturalist* 126(2):213-255.
- and Friedman, S., G. P. Waldbauer, J. E. Eertmoed, Mohammed Maeem. 1991. Blood trehalose levels have a role in the control of dietary self-selection by <u>Heliothis zea</u> larvae. *J. Insect Physiol* 37:919-928.
- and Echeverri, A. C., H. W. Gonyou. 1992. Preparturient behavior of confined ewes:time budgets, frequencies, spatial distribution and sequential analysis. *Applied Animal Behaviour Science* 34:329-344.
- and R. E. Warner and P. C. Mankin. 1992. Accurate counts for Moran's joins tests in ecological studies. *American Midland Naturalist* 128:366-376.
- and J. H. Zar. 1992. Runs of two kinds of elements on a circle:a redevelopment, with corrections from the perspective of biological research. *American Midland Naturalist* 128:377-396.
- 1993. An exact test and normal approximation for centrifugal and centripetal patterns in line and belt transects in ecological studies. *American Midland Naturalist* 130:338-355.
- and Moore, A. S., H. W. Gonyou. 1993. Integration of newly introduced and resident sows following grouping. Applied Animal Behaviour Science 38:257-267.
- 1995. A possible mode of induction of pinnateness in Honey Locust as implied by consistent gradients of 1-, mixed-, and 2-pinnate leaves. *American Midland Naturalist* 133:213-228.
- and S. G. Mochel. 1996. Testing tree-ring crossdatings and other correlated time series by means of first- and second-difference turn tests. *American Midland Naturalist* 135:317-333.
- 1997. A variant of the hypergeometric distribution for large or territorial organisms. *American Midland Naturalist* 137:195-205.

## **BOX/FOLDER LIST**

#### Box 1:

Personal and Biographical Information:

Vitae

Arthur Ghent's Bibliography and Literature Citations, 1980-1995
Power of Attorney, Arthur Ghent for Mildred Ghent, 1975
Personal Literature - Literature of Personal interest to Ghent
Plays and Music
Poetry by Ghent
Theatre involving Ghent
Articles
Letters to Newspapers
Newsclippings

**Retirement Letters** 

Personal and Family 35mm Slides (1 folder, 3 boxes)

Florence N. David Obituary, 1993

Correspondence, 1950-75

Statistics Class with Dr. Butler, Ghent's notes

Course Work at the University of Toronto and University of Chicago, 1949-55

Articles and Reprints by Ghent, I, 1960-1976

II, 1978-2001

# Collected Individual Reprints by Ghent:

"A Technique for Determining the Year of the Outside Ring of Dead Trees," <u>Forest Chronicle</u>, 28 (4): 85-93, 1952

"The Treatment of Decayed Wood from Dead Trembling Aspen Trees for Growth-ring Analysis," Forest Chronicle, 30 (3): 280-283, 1954

"A Guide for the Re-alignment of Off-center Increment Borings," <u>Forest Chronicle</u>, 31(4): 353-355, 1955

"Oviposition Behavior of the Jack-Pine Sawfly - Egg Cluster Analysis," <u>The Canadian Entomologist</u>, 87(6), June 1955

"Linear Increment in Width of the Head Capsule of Two Species of Sawflies," Canadian Entomologist, 88(1): 17-23, 1956

"Studies of Regeneration in Forest Stands Devastated by the Spruce Budworm, Part I" (reprint and photocopy master, with D. A. Fraser and J. B Thomas), Forest Science, 3(2): 184-208, 1957

"Part II", Forest Science, 4(2): 135-146, June 1958

"Part III", Forest Science, 9(3):295-310, September 1963

"Mortality of Overstory Trembling Aspen in Relation to Outbreaks of the Forest Tent Caterpillar and Spruce Budworm," <u>Ecology</u>, 39(2): 222-232, April 1958

"Oviposition Behavior of the Swaine Jack Pine Sawfly," Ghent and Wallace, <u>Forest</u> Science, 4 (3): 264-272, 1958

"Studies of the Feeding Orientation on the Jack Pine Sawfly, Neodiprion Pratti Banksianae ROH," Canadian Journal of Zoology, 36:175-183, 1958

"Raw-type Oviposition in Neodiprion Sawflies," <u>Canadian Journal of Zoology</u>, 37: 267-281, 1959

"A Study of the Group-feeding Behaviour of Larvae of the Jack Pine Sawfly," Behaviour, 16(1-2): 110-148, 1960

- "Regularity in Distribution of Supernumerary Needles," <u>Forest Science</u>, 6(4): 331-333, December 1960
- "On the Anatomy of Explanation, parts 1, 2, and 3," <u>Bios</u> 33 (2): 74-81, 1962; 33 (3): 133-144, 1962; and 34 (1): 11-23, 1963
- "The Logic of Experimental Design in the Biological Sciences," <u>Bioscience</u>, 16(1): 17-22, ca. 1963
- "A Deficit of Heresy," Biologist, 46(1-2): 1-14, 1963
- "Studies of Behaviour of the Tribolium Flour Beetle, Part I," <u>Ecology</u>, 44(2): 269-283, Spring 1963; and "Part II," <u>Ecology</u>, 47(3): 355-367, Spring 1966
- "Kendall's "Tau" Coefficient as an Index of Similarity in Comparisons of Plant or Animal Communities," <u>The Canadian Entomologist</u>, 95(6): 568-575, June 1963
- "An Experimental Gill Net Based on the Principle of the Latin Square," <u>Transactions of the America Fish Society</u>, 93(3), 233-242, July 1964
- "Regularities in the Size and Orientation of Juniper Fragments Attached to the Cases of the Bagworm," <u>The Canadian Entomologist</u>, 96(8): 1097-1106, August 1964
- "On the Goals of Science," The Biologist, 47(1-2):1-16, December 1964
- "A New Method of Assessing Contagion Applied to a Distribution of Red Ear Sunfish" (with Grinstead), <u>Transactions of the American Fish Society</u>, 94(2): 135-142, April 1965
- "Number Triangles Yielding the Numerators for Exact Solutions of the Wilcoxon Rank Sum Test," <u>The Canadian Entomologist</u>, 97(7): 701-715, July 1965
- "Science, Existentialism, and the Search for a Naturalistic Ethic," <u>Bios</u>, 36(3): 103-125, October 1965
- "Binomial Corner-association Assessment of Contagion: A Response to Certain Criticisms of the Method," <u>Transactions of the American Fish Society</u>, 95(4): 437-441, October 1966
- "A Model of Crossing-over Based on Alternately-oriented Dipoles," <u>Journal of Theoretical Biology</u>, 11:87-111, October 1966
- "On Teaching 'Population Biology' Whatever That May Be," <u>The Biologist</u>, 49(1-2): 1-11, January 1967
- "Selected Problems in Biometry, Part 1, Some Applications of Elementary Set Theory in Biology," <u>Bios</u>, 38(1): 7-21, March 1967
  - "Part 3, Chi-square as an Index of Disagreement", <u>Bios</u>, 38(4): 161-179, December 1967
  - "Part 5, Applying the Binomial in a Research Context," <u>Bios</u>, 40 (4): 158-176, December 1969
  - "Part 6, The Poisson Distribution," <u>Bios</u>, 42 (2): 78-92, May 1971
  - "Part 7, Analysis of Contingency Tables by X squared," <u>Bios</u>, 43(3), 105-128, October 1972
  - "Part 8, Some Applications of Contingency Tables in Research," <u>Bios</u>, 44(2): 63-85, 1973
- "Application of the 'Broken Stick' Formula to the Prediction of Random Time Intervals" (with Hanna), <u>American Midland Naturalist</u>, 79(2): 273-288, April 1968
- "Theory and Application of Several Tests of Sequential Nonrandomness," <u>The Biologist</u>, 53(4): 169-214, 1971
- "An Interval Distribution Generator for Sequences of Elements of Two Kinds, Suited to Behavioral and Ecological Studies," <u>American Midland Naturalist</u>,

85(1): 188-195, 1971

"A Method of Exact Testing of 2 X 2, 2 X 3, 3 X 3, and other Contingency Tables, Employing Binomial Coefficients," <u>American Midland Naturalist</u>, 88(1): 15-27, 1972

- "Calculation of Equilibrium Growth Rates in a Live-Table Format," <u>The Biologist</u>, 54(4): 137-139, November 1972
- "Depth Distributions Determined with Scuba and Associated Studies of the Freshwater Unionid Clams," <u>E. complanata</u> and <u>A. grandis</u> in Lake Bernard, Ontario (with Singer and Johnson-Singer), <u>Canadian Journal of Zoology</u>, 58(8): 1654-1663, 1978
- "Gamma as a Paired Statistic," <u>American Midland Naturalist</u> (pp. 192-195), 1984
  "Spacial Distribution Patterns in Pre-closure and Post-closure Conifer Plantations,"
  <u>Forest Science</u>, 32(3): 559-575, 1986
- "An Index of Dispersion Based on Nearest Neighbor Analysis" (with Naida Zucker), American Midland Naturalist, 124: 184-187, 1990
- "Diversity and Niche Breadth," <u>American Midland Naturalist</u>, 126(2): 213-255, October 1991
- "Runs of Two Elements on a Circle" (with Jerrold Zar), <u>American Midland Naturalist</u>, 128: 377-396, 1992
- "Moran's Joins Tests" (with Warner and Mankin), <u>American Midland Naturalist</u>, 128 (2):366-376, October 1992
- "Centrifugal and Centripetal Patterns in Line and Belt Transects," <u>American Midland Naturalist</u>, 130(2): 338-355, October 1993
- "A Possible Mode of Induction of Rinnateness in Honey Locusts," <u>American Midland Naturalist</u>, 133(2): 213-228, April 1995
- "Testing Tree-ring Crossdatings by Means of 1st and 2nd Difference Tests," American Midland Naturalist, 135(2): 317-331, April 1996
- "A Variant of the Hypergeometric Distribution for Large or Territorial Organisms," American Midland Naturalist, 137(2): 195-205, April 1997
- "Spurious Replication in Analysis: Making 2 X 2 Tables Out of Paired Data," American Midland Naturalist, 139: 391-393, April 1998
- "Statistical Assessment of Huntsman's 3-Y Salmon-Rainfall Correlation," <u>American Midland Naturalist</u>, 142 (1): 110-128, July 1999
- "Studies of Ballooning of the Bagworm Thyridopteryx Ephemeriformis," <u>American Midland Naturalist</u>, 142(2): 291-313, October 1999

Reprints by Ghent's Colleagues at the University of Illinois at Urbana-Champaign

# Class Material and Notes:

Biology 310
Biology 351, Ken Watt Material, 1966
Field Data, 1974
"Testing for Significance of Morisita's Horn's"
Biology 351 and 371
Biology 352 - Bagworm Egg Counts
Biology 371, 1971-73

# Box 2:

# Class Material and Notes:

Biology 371, 1988

Final Exam and Notes, 1990

Freshwater Clam Notes, 1994 Bound Notes - Quantitative Biology, Fall 1996 Course Packet - Fall and Spring 1996 Final Exam. 1999 Notes, Exams, Homework, Homework. Notes (5 folders), **Binomial Coefficients** Proportionate Replication Book 1, Folder, I Folder II Book 2, Folder I Folder II Transparencies, Normal Curve to Test, Regression Analysis of Variance (3) folders) Biology 371 and 372, Normal Deviation Tables Lecture Transparencies Class Material and Notes: Biology 371, Interspecific Associations Interspecific Associations: Gamma Variant of Tau Biology 372, MSSD Test, Field Exercise, 1965-72 Book 1, Moore-Wallis Flagged Differences, 1965-74 Nearest Neighbor (incl. notes from Biol. 351), 1975-77 1978 Allerton Nettle Data, 1978 Computing the Root Variance of the S Score, 1978 Runs up and Down, 1978-79 Circular Distribution Testing, 1979 Bagworm Infestation, U of I Forestry, 1981 Tally Sheets and Notes, ca. 1981-1987 1982 Mid-semester Exams, 1983-86 Red Pine notes, 1984 Date Transformations, 1984 1985 Homework and Answers, 1986 Reference Items, 1988 Data for Book II, 1989 1992 Class Materials and Notes: Concentration of Events, New Start, or Observation Period, ca. 1993 Biology 372, Date of Birth Research, Folder I, 1994

Box 3:

Box 4:

Folder II, 1994 Photos, Spring 1995

Notes, 1997

Notes, Exams, Homework

Notes (6 folders)

Bagworm Handouts (2 folders)

Concordance (Kendall's W)

**Discussion Papers** 

Fisher, "Lady Tasting Tea,"

Gamma as a Paired Statistic

Path Coefficients

Statistics, Balsam Fir Seedlings

**Interval Analysis** 

**Negative Binomial Distribution** 

Population Growth

Quantitative Biology (2 folders)

Sequential Data

Examination of five "Tau" Variants

3-D Contingency Analysis (2 folders)

Part I: Wilcoxon 2 - Sample and Paired Exact Solutions

#### Box 5:

## Class Materials and Notes:

Biology 372, Part II: Wilcoxon 2 - Sample and Paired Normal Approximations

Part III: "Rho" and the Rankit Substitution

Part IV: Kendall's "Tau,"

Part V: "Tau," Gamma," in Continuing Tables

Ecology, Ethology, and Evolution (EEE) 237 - Melton

EEE 290, ca. 1992

EEE 345, 1981-84

EEE 346, 1983-85

Microbiology 330 - Spiegelman

Statistics 221 - Melton

Genetics 234 (University of Oklahoma), 1962

Statistics 304 (University of Chicago), 1955

Statistics 305 (University of Chicago), 1956

Zoology 234 (University of Oklahoma)

Zoology 340 (University of Oklahoma)

Zoology 340 (University of Oklahoma), Bagworm Study (2 folders, 1963-64

Zoology 391 (University of Oklahoma)

Zoology 400 (University of Oklahoma)

Other Course Material

Brownlee Lecture Notes, University of Chicago, 1958

Visiting Lecturer, Colby College, April 1974

# Administrative:

Official Correspondence, University of Illinois

Departmental Correspondence

Administrative Correspondence, SURS

New Book List: Illinois Natural History Survey Library, 1999

Biology Library Funding Petition, 1982

Faculty Matters, 1989

# **Grant Proposals:**

Proposals for Grants for Research

SFI Grant Application, 1968

Study of Distribution Patterns in Tree Plantations, 1981

Changes in Tree Distribution Patterns, 1982

Changes in Tree Distribution Patterns with Increased Age and Mortality, 1982

Research Proposal - USDA, 1982

National Science Foundation Proposal - Rejection, 1987

Correspondence, Reprint Requests, 1978-81

Professional Correspondence, 1962-69

1970-92

1992-2001

Animal Science Annual Report, 1991-93

#### Box 6:

Research Correspondence, 1962-84

(2 folders) 1986-92

1995-2000

Teaching and Graduate Student Advising, 1984-93

Graduate Students - Thesis and Dissertation Proposals, 1991-92

Research under Ghent, 1993

#### Graduate Students and Research Associates:

Bart, Henry - Stream Fish Community Structure, 1987

Bay, Paula - Recommendations, 1975

Birkey, Craig - "Behavioral Response of Diamondback Terrapins to Shrimp Odors," 1991

Burley, Nancy - Zebra Finches, 1985

Condit, Richard - Correspondence and Reprints

Diehl, Robb - Christmas Bird Count Research, 1994

Evans, Amy L. - "Automation of Diversity and Niche Breadth Indices for Exact Testing and Correlation" (mss), January 1, 1980

Franson, Sue - "Foraging Behavior of Neighboring Ant Colonies" (Ph.D dissertation), 1985

Lynch's Similarity Index (mss), 2000

Gilbert, William H. - Vita and articles, 1975

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Medical, ca. 1965
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Englund - Ghent Correspondence, 1968

Data

Silent Spring Paper, 1st Draft, ca. 1968

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Questionnaire of 1967

Unclassified Questionnaire, ca. 1968

Correspondence, 1968

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Civil Aeronautics Board Printed Records, 1965

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Paper Mss., 1973

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Analysis, 1973

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Cinda's Notes

Clam Diversity by Stream Order - Bart, 1956-88

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Elliptio Electron Micrograph Photos

Elliptio and Anodonta Notes

Freshwater Clam Notes

Freshwater Clam Mss. and Photos

Freshwater Clam Notebook

Interlake Distance Measurements

Measurements

Notes, 1988

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Research Studies, Notes, Manuscripts: Clam Research, 1999 2001 Elliptio (see Oversize, Box 20) Clock-Tick Problem (3 folders) Cockroaches - German Cockroach Data, ca. 1990 Juvenile Cockroach Data, ca. 1990-91 Photographs and Negatives Commonwealth Scientific and Industrial Research Organization Correspondence, 1960-61 Competition Studies in Progressively More Natural Tree Plantations - Mss. and Notes, 1978-86 Concordance Studies - Mosquito and Bird Examples Concordance Regression as a Measure of Community Stability, ca. 1991-93 Confidence Libits for Proportions Notes Crater Coordinate Standards Tally Sheets, 1968-69 Crayfish - References Research, 1995 "Critical Value Tables for Concentration of Events Near the Ends or Middle of a Row of Stalls or Pens" Dandelions - Notes Danish Pigs - Research, 1996-98 Research, Summer 1998 Research, 1999 Pederson's Pigs Date of Birth Project - Research Material 1992-93 Chronological Clippings Files (primarily obituaries): November 1992 December 1992 January 1993 February 1993 March 1993 April 1993 May 1993 September 1993 October 1993 November 1993 December 1993 January 1994 February 1994 March 1994 April 1994 May 1994 December 1994 January 1995 February 1995 March 1995

April 1995

> May 1995 June 1995 July 1995 August 1995 September 1995

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Research Studies, Notes, Manuscripts:

Date of Birth Project, October 1995

Chronological Clippings Files (primarily obituaries):

November 1995

December 1995

January 1996

February 1996

March 1996

April 1996

May 1996

June 1996

July 1996

August 1996

September 1996

October 1996

November 1996

December 1996

January 1996

February 1996

March 1996

**April** 1996

May 1997

June 1997

November 1997

December 1997

January 1998

February 1998

March 1998

**April** 1998

May 1998

October 1998

November 1998

December 1998

January 1999

February 1999

March 1999

April 1999

May 1999

Late October/Early November 1999

December 1999

January 2000

February 2000

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#### Box 13:

Research Studies, Notes, Manuscripts:

Date of Birth Project, Chronological Clippings Files (primarily obituaries):

March 2000

April 2000

Dates and Numbers

Tallies

Distribution of 2151 Births by 15 Minute Intervals on a 24-Hour Clock (Zar)

C-U News-Gazette, 3 Years of Births

Clippings, undated

Notes, 1995

Notes, 1998 (2 folders)

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Obituary Survey, Kane Data

Twins Study

Date of Birth Card File

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Diversity and Niche Breadths (3 folders)

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Fish Spawning, Forest Glen Spring Data

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Fish Studies - Research, Gamma Analysis, with Susan Franson, Aug. 1999

Working Notes, Gamma Paper

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Fisheries, Correspondence and Notes, 1965-81

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Forest Entomology Negatives, University of Oklahoma

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Fruit Fly Study, with Grad Student

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Growth Curves Study - Birds, ca. 1992

Georgiadus, spp. Bovid, Experiment B Decline Data, ca. 1992

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Exponential Decline, ca. 1992

Notes and Graphs, 1991

Bovid, ca. 1990

Hyrax, Elephant, and Elephant Seal, ca. 1992

Insectivore, ca. 1992

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Relative Growth Rate, 1990-91

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Manuscript

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**In-Community Comparisons** 

Interspecific Association - "An Approach to the Study of Community Interactions through 'Special Sectionings' of Interspecific Association," paper, 1976

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Research Studies, Notes, Manuscripts:

Island Evolution References, ca. 1992

Jack Pine Study Tally Sheets, 1980-81

Jack Pine Sawfly, ca. 1964

Joins Testing - To Second Nearest Neighbor and More Distant Neighbor, Mss.

Associations, 1988-2000

Kansas Small Game Wildlife Surveys, ca. 1997-98

Kolmogorov -Smirnov Test

Leaf Specimen for New York Botanical Garden, 1978

Mean and Variance of the Binomial

Metabolic Water, 1990-91

Mice - CR Paper, Transparencies, ca. 1992

Peromyscus Calif., rgr. Declien Formula Analysis, ca. 1992

CR Peromyscus Growth, 1992

CR Talk, 1991

P. Americana Weight Data, ca. 1992

Measurements of Mice of Islands

Mouse Identification for Bagworm Study

Moon Surface Photographs, 1968

Mosquito - Hysimachia Problem (Horsfall)

Mosquito Females, South Cook County, 1955-76

Moving Average Paper, Mss. and Notes

Nearest Neighbor Analysis - Fiddler Crabs and Bank Swallows, with Nalda Zucker

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Second Nearest Neighbor, Method, 2000

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One-sided Significance Tests, 1976-79 Osmorhiza: Člaytoni vs. Longistylis, with P. Lowry Encyclopedia of Pest Management, proposed entry, 2000 Pine Trees - Third Nearest Neighbors Slides Notes **Incomplete Lattices** St. Williams, Pinus nigra, 7/21/22/81 (27 X 38 = 1026), I, June 1984 Box 16: Research Studies, Notes, Manuscripts: Pine Trees - St. Williams, Pinus nigra, 7/21/22/81 (27 X 38 = 1026) II, June 1984 Research, Fort Huachuca Needle Studies - Research Pinus caribaea, 1961-62 Pinus cembroices, 1961-62 Pinus echinata, 1961-62 Pinus edulis, 1961-62 Pinus flexidis, 1961-62 Pinus glabra, 1961-62 Pinus latifolia, 1961-62 Pinus leiophylla, var. chichuahuana, 1961-62 Pinus ponderosa, var. arizonica, 1961-62 Pinus nigida, 1961-62 Pinus virginiana, 1961-62 Red Pine, Midhurst, Ontario, Aug. 23, 1982 White Pine, Supernumerary Fascicles Scots Pine, Urbana Jack Pine, Aug. 23, 1982 Numbers, ca. 1995 Nut Bearing, Notes, 1981 Biodiversity (see Oversize, box 20) Plants, Ontario - Correspondence and Notes, 1950-58 Plants - Fifth Year Measures Poison Ivv Data Predation Risk and Microhabitat Preferences - Formanowicz and Bobka, 1988 Proof of Exponential Decline Model, ca. 1992 Proportionate Density Paper Notes, 1966 Purple Sandpiper - Statistical Study Consulting, ca. 1976 Paired T Test and Random Block Analysis - Not more that 1 in 5 between 1 and 5 (Origin), Zar letter Red Pine Study - Research Notes 20th Year Diameters, Parry Sound, 1980 Joins Testing - 2nd and More Distant Neighbor, Jan. 2000 Phase II, Half-regular Lattices, 1989 Midhurst Plot Calculations, 1984-85 1986 Midhurst, 8/12/81, Block 2 (19 X 33 = 627) and 3 (19 X 53 = 1027), June

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1984

Midhurst, Young Trees, 5-6 Years Old, height 81"/80", 200 (20 X 10) Tree Block, 8/21/81, Kane 1984

Midhurst, 1983-84

Coombs Plot, Midhurst, 2nd Lecture Transparencies, 1984

Half-regular Joins, 1985

1st Nearest Neighbor Analysis (upper 28 rows), Nov. 28, 1999

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Research Studies, Notes, Manuscripts:

Red Pine Study - Second Nearest Neighbor, 1999

Notes, 1982-83

Notes

Deep River, 1959-88

Photos

River Data - Physical Factors (see Oversize, box 20)

Runs on a Ring, 1986-90

1992

Salmon Fisheries Research - Atlantic Salmon Federation, 1979

Data Base

Millbank Counts and Temperature, 1952, 1954-64

Numerical Analysis

Notes

Curventon Counts, 1964-68

Reports, 1965-68

Graphs

River Descriptions

Paper: Illustrations & Tables - negatives

Studies, ca. 1974

**Angling Status** 

Salmon

Methods and Measures

Salmon-Rainfall Study - Data: Miramichi Fishing Rainfall Variances

A Statistical Re-examination of Huntsman's 3-year Correlation

Chatham and Variances for Single Month Correlation - April-Oct.

Rainfall Correlations Mss., Ghent and Hanna

Notes

Salmon and Rainfall in Miramichi, Mss., 1968

Salmon and Rainfall, 1990

Flow-Catch Data, Miramichi River (Bruce Hanna) (see Oversize, box 20)

Miramichi Salmon Rainfall, Spring 1968 (see Oversize, box 20)

Sangamon River Plants

Sawfly Notes

Sawfly and Bagworm Photos

Sawfly Feeding Negatives

Sawfly Larvae Photographs and Negatives

Sei Whale Data, ca. 1992

Sequential Nonrandomness, Draft of Chapter

## Box 18:

Research Studies, Notes, Manuscripts: "Serial Sectionings" Mss. Shagbark Hickory Study, 1987 Shannon-Weaver's H, Analysis, 1999 **Snail-Tree Notes** Snails - "Niche Breadth and Diversity in Terrestrial Snails" Mss. Sport Fishing Institute, 1966 Report, 1967 Spruce - Fairly Lake (Brunel Township), 1983 Spruce Budworm - Impact on Succession, 1988 **Photos** Spruce and Fir Plates and Negatives Squirrel Studies - Distribution Research, 1987 **Survey Questionnaires** Surveys Gray Squirrels, 1955-95 Gray, White, and Fox Squirrels Gray and Fox Squirrel Distribution in Wisconsin Melanistic Squirrels White Squirrels -White and Gray Surveys, Olney, 1976-85 White and Others, Olney area Maps, 1985 Notes Notes, 1984 Notes, 1992-99 **Survey Questionnaires** Survey Questionnaires, Jan. 28-29, 1999 Survey, 1988-2001 Olney, 1996 Correspondence and Clippings Statistical References, photocopies Statistical Tests, Selection Statistical Tables for Research, ca. 1993 Statistics - 2" X 2" Glass Slides Box 19:

Research Studies, Notes, Manuscripts:

Tanglefoot Array, Photo

"Temporal Patterns of Behavior," by Robert Fagan and Donald Young, Nov. 1976

Theoretical Biology Photographic Prints

Thyridopteryx - 2nd Nearest Neighbor

3rd Nearest Neighbor

Tree Distribution

Tree Distribution Patterns

Trees - Notes

Tree Ring Cross-Dating with Sheila Mochell

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Tree Ring Research - Bannister

Tribolium 3-Dimensional Contagion

Tribolium Behavior Selection Study, with Joan Lawson, 1960-62

Wasp Nest Photos

Weyerhauser: Reports and Correspondence, 1984 White Spruce Research Notes (2 folders), 1982

Whitney's Table - Chickens

Wilcoxon Exact Tests

Unidentified - Photos

Photos to Research Project 1377 Zip Disk with Research Notes

Journals Examined for Book Literature References

Research Citations by Ghent

VM Archives Users Guide

Bibliographical Cards (card box), alphabetical by Author

Bibliographical Cards (2 card boxes), by Topic

# Box 20 (oversize):

Research Studies, Notes, Manuscripts:

2-Dimensional Corner Association (2 Binders)

Salmon Fisheries - Flow-Catch Data, Miramichi River (Bruce Hanna)

Miramichi Salmon Rainfall (1 binder), Spring 1968

Pine Study - Biodiversity

River Data - Physical Factors (1 binder)

Clam Research - Elliptio

Statistical Charts for Classes and Talks