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<tr>
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<th>Accumulator Register</th>
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</thead>
<tbody>
<tr>
<td>Storage Register 1</td>
<td>Storage Register 2</td>
<td>Storage Register 3</td>
</tr>
</tbody>
</table>

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23 JULY 1965
year" for comparisons is 1960, not 1952–54, data from which are cited by Negus and Gould. However, this makes little difference so far as the data are concerned. In mature males 8 to 9 kg represents a 25-percent decline in total body weight from maximum weights or conversely a 44-percent increase over the weights at the time of the die-off—hardly an insignificant change, especially when there were adequate stores of fat in the usual depots, abundant for the time of year. These weight differences represented differences in the size of the animals, therefore reflected effects on somatic growth, not gain or loss of fat or other labile tissue mass.

With regard to the last point, we have recently learned that, owing to an editorial error, the illustrative photograph in our original paper (3) was one taken in 1959, not in 1958 as there indicated. The statement in the legend is, however, valid. Photographs taken in several years are available to illustrate our statement that the deer were not emaciated or suffering from a deficient food supply.

The earlier conclusions of Flyger and Warren (4) cited by Negus and Gould were based on superficial gross inspection without benefit of subsequent histological studies or of the sample collected and studied in 1960. To complicate matters, many of the dead deer were in advanced stages of autolysis, and all were autolysed to some degree. We did not collect tissue from any dead deer, as we thought that in even the most recently dead animals autolytic changes were sufficient to impair reliable interpretation. Therefore we arranged to shoot a sample on our second visit during the die-off.

A second publication (5) presents strong presumptive evidence implicating potassium deficiency, secondary to prolonged hyperadrenalcorticalism, in the death of these deer. The deer feed extensively on emergent or emergent plants surrounding the island, of which there is a great supply, and the "ice barrier" existed for approximately 10 days in February, whereas the die-off began in January and continued through March. We cannot say that climate did not play an augmentive role in the die-off, but circumstantial evidence would tend to rule it out as an important factor. No die-off occurred in the years before or has occurred since, despite recurrent episodes of climatic adversity. However, we can state with assurance that the die-off was not caused by an inadequate intake of food, unless the deer died of malnutrition in the presence of adequate fat and liver glycogen stores and without emaciation.

We made observations, although not detailed ones, of social rank. Our supposition regarding social rank was based on the differential death of adult females and young of both sexes, and on reports in the literature on social rank in deer of several species (see 6).

In support of our conclusions, Welch has shown a good relationship between adrenal change and population density in white-tailed deer (7).

In sum, it seems to us that the evidence provided by detailed autopsies and histological studies must assume greater validity than superficial gross examination. It would be difficult, if not impossible, to explain the appearance of renal glomerular disease well before the die-off on the basis of malnutrition; the presence of adequate fat stores in deer dying supposedly of malnutrition; the fact that the deer were stunted 3 years prior to the die-off and growth increased promptly afterwards; the chronic adrenal enlargement for 3 years preceding the die-off; the absence of indications of emaciation in the deer that was staggering and obviously dying (with hemorrhages in the adrenal zona glomerulosa); and, finally, the evidence, albeit presumptive, of potassium deficiency.

We expect variability and have never claimed that only endocrine mechanisms are capable of limiting population growth. We agree with Negus and Gould that further experimentation must provide the ultimate answers.

JOHN J. CHRISTIAN

Research Laboratories,
Albert Einstein Medical Center,
Philadelphia, Pennsylvania

DAVID E. DAVIS

Department of Zoology,
Pennsylvania State University,
University Park

References
12, 209 (1958).
6. See, for example, C. Kabat, N. E. Collias, R. C. Gunttner, Wisconsin Conserv. Dept.

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Forthcoming Events

August


1-8. Chemistry, 9th Latin American congr., San Juan, P.R. (Secretary, 9th Latin American Chemical Congr., Box 2647, Rio Piedras, P.R.)

2-4. Society for Cryobiology, 2nd annual, Madison, Wis. (G. Rapatz, American Foundation of Biological Research, RFD 1, Madison 33716)

2-5. Comparative Endocrinologists, 3rd European conf., Copenhagen, Denmark.

2-6. High Pressure, intern. conf., Saône et Loire, France. (B. Vodar, Centre National de la Recherche Scientifique, B.P. 36, Bellevue, Seine et Oise, France)


3-7. Poultry Science Assoc., Univ. of Georgia, Athens. (C. B. Ryan, Texas A&M Univ., College Station 77843)

4-6. Space and Ballistic Missile Technology, 10th symp., U.S. Naval Training Center, San Diego, Calif. (C. T. Morrow, Aerospace Corp., Box 95085, Los Angeles, Calif. 90045)

4-7. Genetics, G. Mendel memorial symp., Brno, Czechoslovakia. (M. Sosna, G. Mendel Memorial Symp., Na cvici 2, Prague 6, Czechoslovakia)

6-8. Particle-Berkeley and Podium-Berkeley, 3rd annual student research symp., Berkeley, Calif. (Box 937, Berkeley 94701)

8-11. Heat Transfer, 8th natl. conf., Los Angeles, Calif. (K. O. Beatti, Jr., Dept. of Chemical Engineering, North Carolina State College, Raleigh)

8-14. Anatomists, 8th intern. conf., Wiesbaden, Germany. (M. Watzka, Anatomisches Institut der Universität, Mainz, West Germany)

8-27. Fracture Mechanics, workshop, Denver Research Inst., Denver, Colo. (D. L. Wells, University Technology Corp., P.O. Box 7, Dayton, Ohio 45449)

9-11. Mutation Process, symp., Prague, Czechoslovakia. (M. Sosna, Na cvici 2, Prague 6)

9-13. Meteor Orbits and Dust, intern. symp. (invitation only), Cambridge, Mass. (G. S. Hawkins, Smithsonian Astrophysical Observatory, 60 Garden St., Cambridge 02138)


9-20. Electromagnetic Measurements and Standards, Natl. Bureau of Standards, Boulder, Colo. (Bureau of Continuation Education, University Memorial Center, Univ. of Colorado, Boulder)


11-15. European Malacological Union, 2nd congr., Copenhagen, Denmark. (G. Høpner Peterson, c/o Zoologisk Museum, 5 Afdeling, Universitetsparken 15, Copenhagen)

12-21. Veterinary Education, 2nd intern., Copenhagen, Denmark. (Inter. Agen- cy for Animal Health, Office of the Director General, Food and Agriculture Organization, Via delle Terme di Caracalla, Rome, Italy)

14-20. Australian Medical Assoc., 2nd medical congr., Perth, Western Australia. (O. R. Cott, 8 King's Park Rd., West Perth, Western Australia)

14-20. Molecular Spectroscopy, 8th European congr., Copenhagen, Denmark. (The Congress, Universitetsparken 5, Kopenhagen Ø, Denmark)

14-6. Digital Computers for College Teachers, of Science, Mathematics, and Engineering, Univ. of Southwestern Louisiana, Lafayette. (J. R. Oliver, Box 133, USL Station, Lafayette 70506)


The following societies will meet in conjunction with the AIBS. Unless otherwise indicated, the local chairmen are at the University of Illinois, Urbana.

American Bryological Soc. (G. N. Jones, Dept. of Botany)
American Fern Soc. (G. N. Jones, Dept. of Botany)
American Fisheries Soc. (G. Bennett, Aquatic Biology Section)
American Genetic Assoc. (S. Price, Room 210 S. Bldg., Plant Industry Station, Beltsville, Md.)
American Microscopical Soc. (L. J. Thomas, Dept. of Zoology)
American Soc. for Horticultural Science. (C. J. Birkeland, Dept. of Horticulture)
American Soc. of Limnology and Oceanography. (W. Larrimore, Illinois Natural History Survey, Urbana)
American Soc. of Plant Physiologists (J. B. Hanson, Dept. of Agronomy)
American Soc. of Plant Taxonomists. (W. Payne, Dept. of Botany)
American Soc. of Zoologists. (L. Ingle, Dept. of Zoology)
Animal Behavior Soc. (G. P. Wald- bauer, Dept. of Entomology)
Botanical Soc. of America. (D. J. Paoli- lo, Dept. of Botany, 302 Natural History Bldg.)
Ecological Soc. of America. (L. C. Bliss, Dept. of Botany)
Mycological Soc. of America. (D. P. Rogers, Bureau of Botany)
National Assoc. of Biology Teachers. (H. Weaver, Dept. of Recreation and Municipal Park Administration)
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<tr>
<th>Model Capacity</th>
<th>I.C.C. pressure rating (p.s.i.g.)</th>
<th>Outlets ( female NPT)</th>
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<td>75 ml</td>
<td>1000</td>
<td>60</td>
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<tr>
<td>803</td>
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<td>20.50</td>
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<td>450</td>
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<td>810</td>
<td>1 gal</td>
<td>1000</td>
<td>69.95</td>
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<tr>
<td>810</td>
<td>1 gal</td>
<td>450</td>
<td>87.50</td>
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Society of Nematologists. (D. P. Taylor 106 Horticulture Field Laboratory)
Tomato Genetics Cooperative. (A. Thompson, Dept. of Horticulture)

16-18. Guidance and Control, conf., Minneapolis, Minn. (D. L. Mellen, Mall Station 677, Military Products Group, Aeronautical Div., Honeywell, Inc., Minneapolis 55440)
16-20. Australian-New Zealand Assoc. for the Advancement of Science, Univ. of Tasmania, Hobart, Tasmania, Australia. (K. D. Nicolls, Div. of Soils, CSIRO, Stowell Ave., Hobart)
16-20. Liquid Crystals, conf., Kent State Univ., Kent, Ohio. (G. H. Brown, Dept. of Chemistry, Kent State Univ., Kent)
16-20. American Soc. for Pharmacology and Experimental Therapeutics, fall meeting, Univ. of Pennsylvania, Philadelphia. (E. B. Cook, 9630 Wisconsin Ave., Washington, D.C. 20014)
17-20. Anesthesiology, symp., Czechoslovak Medical Soc., Prague. (J. Hoder, Unemocnice 2, Prague 2)
17-20. Atmospheric Pollution, 2nd Clean Air Conf., Sydney, Australia. (J. L. Sullivan, New South Wales Dept. of Health, P.O. Box 11, George St. North Post Office, Sydney)
17-27. Infrared Spectroscopy, 16th annual inst., Fisk Univ., Nashville, Tenn. (Director, Fisk Infrared Inst., Fisk Univ., Nashville 8)
20-21. American Inst. of Ultrasonics in Medicine, 1st Pan American meeting, Lima, Peru. (C. Bustamante Ruiz, Dept. of Physical Medicine and Rehabilitation, Hospital Obrero, Lima)
21. Insect Endocrinology, symp., Prague, Czechoslovakia. (F. Hrabal, Foreign Relations Dept., Czechoslovak Acad. of Sciences, Narodni tr. 3, Prague 1)
22-27. Medical Electronics and Biomedical Engineering, Tokyo, Japan. (K. Suhara, Japan Soc. of Medical Electronics and Biological Engineering, Old Toden Bldg., 1-1 Shiba-tamura-cho, Minato-ku, Tokyo)
22-28. Physiology of Giant Algal Cell, conf., Australian Acad. of Science, Canberra, Australia. (The Academy, Gordon St., Canberra)
22-28. Lunar Geology, intern. field conf., Bend, Ore. (L. Staples, Dept. of Geology, Univ. of Oregon, Eugene)
23-25. Cryogenic Engineering, conf., Houston, Tex. (K. D. Timmerhaus, Engineering Research Center, Univ. of Colorado, Boulder 80304)
23-25. American Soc. of Human Genetists, Seattle, Wash. (J. B. Graham, Dept. of Pathology, Univ. of North Carolina, Chapel Hill)
23-25. Plant Phenolics Group of North America, annual, Albany, Calif. (V. C. Runbeckles, Imperial Tobacco Co. of Canada, P.O. Box 6500, Montreal, Quebec)
23-26. Clay Minerals Soc., 2nd annual, Univ. of California, Berkeley. (J. A. Pask, Dept. of Mineral Technology, Univ. of California, Berkeley 94720)
23-27. Control Procedures in Drug Production, seminar, Univ. of Wisconsin, Madison. (W. Blockstein, Extension Services in Pharmacy, Univ. of Wisconsin, Madison)
23-27. Neurological Surgery, 3rd intern. congr., Copenhagen, Denmark. (DIS Congress Service, Sankt Peders Str. 19, Copenhagen K)
23-27. American Ornithologists Union, Ohio State Univ., Columbus, (R. Mewaldt, San Jose State Teachers College, San Jose, Calif.)
23-27. Space, 5th annual conf., Virginia Polytechnic Inst., Blacksburg. (M. L. Col-
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23–29. European Soc. of Haematology, 10th congr., Strasbourg, France. (R. Waitz, Faculté de Médecine, Inst. d’Hématologie, 1, Pl. de l’Hôpital, Strasbourg, Bas-Rhin, France)
23–29. Logopaedics and Phoniatrics, 13th intern. congr., Vienna, Austria. (Mrs. A. M. Jörg, Vienna Acad. of Medicine, Alserstr. 4, Vienna 9)
23–30. Limnology, 16th intern. congr., Warsaw, Poland. (G. E. Hutchinson, Yale Univ., New Haven, Conn.)
24–26. Association for Computing Machinery, 20th nati. conf., Cleveland, Ohio. (G. J. Moshos, P.O. Box 4741, Cleveland)
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5-8.
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5-9. Allergology, 6th European congr.,
Stockholm, Sweden. (S. Kraepelin, Sachs
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5-9. Biochemistry of Lipids, 9th intern. con-
gr., Noordwijk, Netherlands. (J. Bold-
ingh, Unilever Research Laboratorium,
Mercatorweg 2, Vlaardinghen, Netherlands)
5-9. Luminescence, symp., Munich, Ger-
many. (N. Kiehl, Arcistr. 21, 8 München,
Germany)
5-9. International League Against Rheu-
matism, 11th congr., Buenos Aires, Argenti-
na. (A Caruso, Junelc 1875, Planta Baja,
Dept. 2, Buenos Aires)
5-9. Physics and Chemistry of Scintill-
lators, intern. luminescence symp., Munich,
Germany. (H. Kallman, Radiation and Solid
State Laboratory, Dept. of Physics,
New York Univ., New York 3)
5-10. International Committee of Elec-
trochemical Thermodynamics and Kinetics,
16th mtg., Budapest, Hungary. (S. Lengyel,
ELTE Fizikai-Kemial es Radiological Tan-
szék, Puskin 11-13, Budapest 8)
5-10. Electromyography, intern. mtg.,
Vienna. (K. Pateisky, Universitäts Nerv-
venklinik, 14 Lazarettgasse, Vienna 9)
5-10. Neurology, 8th intern. congr.,
Vienna, Austria. (Congress Office, Vienna
Academy of Medicine, Alserstr. 4, Vienna
9)
5-10. Ecology of Soil Bacteria, symp.,
Liverpool, England. (N. A. Burges, Univ.
of Liverpool, Hartley Botanical Laborato-
ries, Liverpool)
5-12. Electroencephalography and Clini-
cal Neurophysiology, 6th intern. congr.,
Vienna, Austria. (M. A. B. Braizer, Brain
Research Inst., Univ. of California Med-
icl Center, Los Angeles 24)
5-14. Fertility and Sterility, 5th intern. con-
gr., Madrid, Spain. (J. Ascenso Aabello,
Parque Meliton Porras, 161, Miraflores,
Lima, Peru)
6-9. Organosilicon Chemistry, intern. symp.,
Prague, Czechoslovakia. (Inst. of
Chemical Process Fundamentals, Prague-
Suchodol 2)
6-9. Thermal Analysis, first intern. conf.,
Aberdeen, Scotland. (C. B. Murphy,
Bldg. 5, General Electric Co., 1 River Rd.,
Schenectady, N.Y.)
6-10. Embryology, 7th intern. conf.,
Edinburgh, Scotland. (A. S. G. Curtis,
Dept. of Zoology, University College Lon-
don, Gower St., London W.C.1, England)
6-10. Plasma Physics and Controlled
Nuclear Fusion Research, 2nd conf., Ab-
ingdon, England. (H. H. Storhaug, Div. of
Scientific and Technical Information, In-
tern. Atomic Energy Agency, Kärntner
Ring 11, Vienna 1, Austria)
6-10. European Organization for Qual-
ity Control, 9th conf., Rotterdam, Nether-
lands. (Secretariat, Weena 700, Rotterdam
3)
6-10. International Union of Directors of
Zoological Gardens, annual, Berlin
Germany. (E. M. Lang, Zoologischer Gar-
ten, Basel, Switzerland)
6-11. Electromagnetic Distance Mea-
A. Edge, Field Survey, Ordnance Survey,
Leatherhead Rd., Chessington, Surrey)
6-11. Electromagnetic Wave Theory, In-

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<td>8505 Devonshire Road, Montreal 9, Quebec; 735-2621 (514)</td>
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16-19. General Practice, 7th intern. congr., Salzburg, Austria. (K. Engelmeier, Intern. College of General Practice, Lange Str. 21a, 4740 Oelde, Westphalia, Germany)


17. Southern California Acad. of Science, Los Angeles County Museum, Los Angeles. (C. Rozaire, Los Angeles County Museum, 900 Exposition Blvd., Los Angeles 90007)

17-18. Dialysis and Transplant, 2nd intern. conf., Newcastle, England. (W. Drukker, Dept. of Medicine, Queen Wilhelmina Hospital, Amsterdam W., Netherlands)


18-19. Minnesota Acad. of Science, Grand Rapids. (V. E. Anderson, 6 Zoology, Univ. of Minnesota, Minneapolis 55455)

18-21. International Soc. of Radiographers and Radiological Technicians, 3rd world congr., Rome, Italy. (E. R. Hutchinson, 159 Gabalfa Ave., Cardiff, Wales)


19-25. Greek Chemists Assoc., 3rd intern. meeting, Athens. (Dr. Parissakis, Technical Univ. of Athens, 42 Patission St., Athens)


19-25. Immediate Separation and Chromatography, intern., Athens, Greece. (G. Parissakis, Technical Univ. of Athens, Odos 28 Octovriou 42, Athens)


20. Photo-Electronic Image Devices as Aids to Scientific Observation, symp., London, England. (G. V. Mcgee, Dept. of Physics, Imperial College of Science and Technology, South Kensington, London S.W.7)


20-24. Biochemistry, 8th Latin meeting, Lisbon, Portugal. (S. F. Gomes da Costa, Laboratorio de Quimica Fisiologica, Faculdade de Medicina, Hospital de Santa Maria, Lisbon)

20-24. Burn Research, intern. congr., Edinburgh, Scotland. (A. Sutherland, Edinburgh, Scotland)

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20-27. Comparative and Cellular Pathology of Epilepsy, symp., Liblice, Czechoslovakia. (F. Hrál, Foreign Relations Dept., Czechoslovak Academy of Sciences, Narodni tr. 3, Prague 1)
21-23. Magnetism, European conf., Vienna, Austria. (Verein Deutscher Eisenhüttenleute, Breit Str. 27, Düsseldorf, Germany)
22-24. Practice of Gas Chromatography, 4th annual mtg., St. Louis, Mo. (N. Brenner, Perkin-Elmer Corp., Main Ave., Norwalk, Conn.)
22-25. Committee of European Aca- rologists, symp., Milan, Italy. (G. Mathys, Stations Federales d'Essais Agricoles, Lau- sanne, Switzerland)
22-25. Amblyopia Exanopsia, intern. symp., Liége, Belgium. (R. Weekers, Clinique Ophtalmologique, Université de Liége, 66 blv. de la Constitution, Liége)
22-26. Paläontologische Gesellschaft, mtg., Zurich, Switzerland. (E. Kuhn-Schnyder, Paläontologisches Institut d. Univ. Zurich, Künstlergasse 16, 8006, Zurich)
22-28. Radiology, 11th intern. congr., Rome, Italy. (Secretariat, Via Reno 21, Rome)

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23-26. Mycology, tripartite conf., Germany, Austria, Switzerland; Klagenfurt, Austria. (Osterreich Mykologische Soc., Postfach 200, Vienna 1)
23-28. Electronics and Vacuum Physics, 3rd Czechoslovak conf., Prague, Czechoslovakia. (Organizing Committee, Ke Karlovu 5, Dept. of Electronics and Vacuum Physics, Prague 2)
24-25. Communications, 13th conf., Cedar Rapids, Iowa. (Inst. of Electrical and Electronics Engineers, Box A, Lenox Hill Station, New York 21)
26-29. American Inst. of Chemical Engineers, 57th natl., Minneapolis, Minn. (AIChE, 345 E. 47 St., New York 10017)
27. Society for Pediatric Radiology, Washington, D.C. (J. L. Gwinn, Children's Hospital, 414 Sunset Blvd., Los Angeles, Calif.)
27-29. Community Oral Health, hemispheric conf., San Juan, P.R. (N. O. Harris, School of Dentistry, Univ. of Puerto Rico, San Juan 00905)
28. Society of Austrian Chemists, general assembly, Graz, Austria. (The Society, Eschenbachgasse 9, Vienna 1)
28-29. Electric Heating, 7th biennial conf., Cleveland, Ohio. (A. F. Leatherman, Battelle Memorial Inst., 505 King Ave., Columbus, Ohio 43210)
28-30. German Soc. for Documentation, 17th annual, Constance, Germany. (The Society, Schubertstr. 1, Frankfurt am Main, Germany)
28-1. Experimental Mechanics, 2nd intern. congr., D. E. Jones, Soc. for Experimental Stress Analysis, 21 Bridge Sq., Westport, Conn. 06880)
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