



## MG 132 – R.D. Crawford fonds

**Dates:** 1964-1991.

**Extent:** 4.1 m.

**Biography:** Roy Crawford earned a BSA from the University of Saskatchewan (1955), a M.S. from Cornell University (1957), and a Ph.D. from the University of Massachusetts (1963). He was a research officer with Agriculture Canada prior to joining the faculty of the University of Saskatchewan in 1964. He quickly rose through the ranks, becoming full professor in 1974. In addition to his research and extensive publications, Crawford was an exceptional teacher, earning the Master Teacher award in 1984, the Ralston Purina Teaching Award in 1981, and was named Professor of the Year both from the College of Agriculture (1976-1977) and from the WCVN Pre-clinical Studies (1975-1976). Crawford also served as national vice-president (1977), and Saskatchewan Director (1972-1975), of the Canadian Kennel Club; and presented several short-courses on dog breeding and genetics throughout western Canada, in Ottawa, and in the US.

**Scope and content:** This fonds contains material relating to Dr. Crawford's poultry research, notably epilepsy mutant data, notes on breeds including Japanese quail and Chanticleer, material from *Poultry Breeding and Genetics*, and wing band indexes of stocks by year (1965-1990); as well as material relating to Dr. Crawford's sabbatical leaves, and his personal correspondence.

See also Faculty Biographies and Faculty Publications.

Donated to the University of Saskatchewan Archives by R.D. Crawford.

**Arrangement:** This fonds is organized into three series:

	Pages
A. Personal.	2-3
B. Poultry Breeding and Genetics	3-5
C. Research Notes.	5-8

**Restrictions:** Files marked as **RESTRICTED** require vetting by the archivist prior to release. All restrictions are applied as per privacy legislation. Copyright restrictions also apply.

*Edited for formatting by Amy Putnam, 2017.*

**Box 1****A. Personal.**

1. Curriculum Vitae - R.D. Crawford. - 30 June 1991. – **RESTRICTED.**
2. News releases, seminars, talks. - 1961-1989. - 3 folders.  
General file of clippings, articles, notes and correspondence documenting Dr. Crawford's career and activities.
3. Sabbatical Leave. - 1979-1980.  
The objective of the sabbatical was to compile an inventory of purebred commercial poultry remaining in Canada, to survey the holdings of purebred exhibition stock and to revise the "Catalogue of poultry stocks held at research and teaching institutions in Canada". Crawford also travelled to Britain, France, Australia, the United States and presented four reports at the technical meeting held by United Nations - F.A.O. in Rome, June 1980, concerning the preservation of rare poultry germplasm.
  - . 1 Reports. - 2 folders.
  - . 2 General.
  - . 3 Atlantic Provinces.
  - . 4 Ontario and Quebec.
  - . 5 Alberta and British Columbia.
  - . 6 Saskatchewan and Manitoba.
  - . 7 Chanticleer Extinction.
4. Correspondence. - 1965-1991.  
This file contains both in-coming and outgoing correspondence pertaining to Dr. Crawford's academic and administrative activities while at the University of Saskatchewan. The material deals with publishing and research concerns, conferences and associations, departmental matters, reference letters for students and former employees and information requests from member of the general public, school teachers and members of the academic community.
  - . 1 1991.

**Box 2**

- . 2 1990. - 4 folders. – **RESTRICTED.**
- . 3 1989. - 2 folders. – **RESTRICTED.**
- . 4 1988. - 2 folders. – **RESTRICTED.**

**Box 3**

- . 5 1987. - 3 folders. – **RESTRICTED.**
- . 6 1986. - 2 folders. – **RESTRICTED.**
- . 7 1985. - 2 folders. – **RESTRICTED.**
- . 8 1984. - 2 folders. – **RESTRICTED.**
- . 9 1983. - 2 folders. – **RESTRICTED.**

#### **Box 4**

- . 10 1982. - 3 folders. – **RESTRICTED.**
- . 11 1981. - 2 folders.
- . 12 1980. – **RESTRICTED.**
- . 13 1979. – **RESTRICTED.**
- . 14 1978. – **RESTRICTED.**
- . 15 1977. – **RESTRICTED.**
- . 16 1976. – **RESTRICTED.**

#### **Box 5**

- . 17 1975. – **RESTRICTED.**
- . 18 1974. – 7 negatives, 6 photos by Hans Dommasch. – **RESTRICTED.**
- . 19. Hobbyist Correspondence - 1974, 1975, 1976, 1977.
- . 20 1973. - 2 folders. – **RESTRICTED.**
- . 21 1972. – **RESTRICTED.**
- . 22 1971. – **RESTRICTED.**
- . 23 1969/70. - 2 folders. - **RESTRICTED.**

#### **Box 6**

- . 24 1967/68. – **RESTRICTED.**
- . 25 1965/66.

### **B. Poultry Breeding and Genetics. - 1984-1990.**

Dr. Crawford was asked to be the contributing editor of this work on the genetics of poultry. Sponsored by the Poultry Science Association, it was to be “a reference work; a comprehensive and critical review of literature and current practices in poultry breeding and genetics”, and was to cover what was known, not only about chicken and turkeys, but also about six other species ranging from Japanese quail to geese and ducks. This was the first major book on the subject in forty years and included contributions from 37 authors. Work on this highly praised volume was started in 1984 and published in 1990. This series contains correspondence, drafts, photographs and illustrations.

1. Contents, Foreword, Preface, Contributing Authors.
2. Chapter 1 - Origin/ evolution/ diversity - Crawford. - 2 folders.

3. Chapter 1.1.2 - Resources / conservation of resources - Crawford.
4. Chapter 1.2.1 - Reproduction in relation to breeding and Genetics - Van Krey. - 2 folders.
5. Chapter 1.2.2 - Preservation of avian cells - Bakst.

**Box 7**

6. Chapter 2.1.1 - Chicken plumage, skin, and eye colors - Smyth. - 3 folders.
7. Chapter 2.1.2 - Chicken plumage and skin variants - Somes. - 2 folders.
8. Chapter 2.1.3 - Chicken musculo-skeletal variants - Somes.
9. Chapter 2.1.4 - Chicken biochemical variants - Grunder.
10. Chapter 2.1.5 - Chicken neurological variants - Crawford.
11. Chapter 2.1.5a - Chicken mutants affecting other body systems - Crawford and Bernon, Somes, Cheng.
12. Chapter 2.1.6 - Chicken lethal / developmental variants - Abbott.
13. Chapter 2.1.7 - Turkeys - Savage.

**Box 8**

14. Chapter 2.1.8 - Japanese Quail - Cheng.
15. Chapter 14 - Guinea fowl - Somes.
16. Chapter 15 - Ring-necked pheasants - Somes.
17. Chapter 2.1.11 - Domestic ducks - Lancaster.
18. Chapter 2.1.12 - Muscovy ducks - Avanzi.
19. Chapter 2.1.13 - Geese - Hawes.
20. Chapter 2.2.1 - Cytology & cytogenetics - Bitgood. - 2 folders.
21. Chapter 2.2.2 - Pleiotropic / associated effects - Merat. - 2 folders.
22. Chapter 2.2.3 Linkage relationships and gene mapping - Bitgood and Somes.
23. Chapter 3.1 - Immunogenetics - Lamont and Dietert.

**Box 9**

24. Chapter 3.2 - Molecular genetics - Bulfield.
25. Chapter 3.3 Genetic Engineering - Shuman.
26. Chapter 4.1.1.1 - Chicken growth and meat production - Chambers. - 2 folders.
27. Chapter 4.1.1.2 - Turkey growth and meat production - Buss. - 2 folders.
28. Chapter 4.1.1.3 - Other galliforms - growth and meat production - Marks.
29. Chapter 4.1.1.4 - Waterfowl - growth and meat production - Pingel.
30. Chapter 4.1.2.1 - Chickens - egg production - Fairfull and Gowe. - 2 folders.
31. Chapter 4.1.2.2 - Other galliforms - egg production - Marks.

**Box 10**

32. Chapter 4.1.2.3 - Waterfowl - egg production - Pingel.

- 33. Chapter 4.1.3 - Chickens - egg trials - genetic variation in egg composition - Washburn.
- 34. Chapter 4.2.1 - Disease genetics – Gavora. - 2 folders.
- 35. Chapter 4.2.2 - Nutritional genetics - Pym. - 2 folders.
- 36. Chapter 4.2.3 - Behaviourial genetics - Siegel and Dunnington.
- 37. Chapter 4.2.4 - Genotype - environment interactions - Sheridan.
- 38. Chapter 4.2.5 - Heterosis - Fairfull.
- 39. Chapter 4.2.6 - Genetic controls in selection - Gowe and Fairfull.
- 40. Chapter 4.2.8 - Inbreeding - Abplanalp.

**Box 11**

- 41. Chapter 5.1 - Industrial breeding and selection - Hunton. - 2 folders.
- 42. Chapter 5.2.2 - Hobbyist breeding and selection - Carefoot. - 2 folders.
- 43. Chapter 5.2.3 - Programs in developing countries - Mukherjee.
- 44. Sabbatical leave - 1987-1988.
- 45. Chapter outlines.
- 46. Conference presentations, notes and correspondence, Reports, Book reviews.
- 47. General correspondence.
- 48. Elsevier correspondence.
- 49. Camera ready copy - correspondence and notes re funding of camera ready copy - accounting re expenditure of grant funds Oliver Hubbard and U of S. - 2 folders.

**Box 12**

- 50. Computer discs (Mac Microsoft Word 3.01).

**C. Research Notes. - 1963-1991.**

- 1. Epilepsy Mutant. - 1963-1991.

This important research project includes almost three decades of material relating to the discovery and study of the mutation which causes epileptiform seizures in chickens. This mutation has been an important animal model in the study of the grand mal form of epilepsy in humans.

- . 1 1963-1966.
- . 2 1967.
- . 3 1968.
- . 4 1968-70. - 4 folders.
- . 5 1969-70. - 2 folders.

**Box 13**

- . 6 1971.
- . 7 1972.

- . 8 1973. - 2 folders.
- . 9 1974. - 2 folders.

- . 10 1975.
- . 11 1976.
- . 12 1977. - 2 folders.
- . 13 1978. - 2 folders.

**Box 14**

- . 14 1979.
  - . 15 1980-1981.
  - . 16 1982-1983 - 2 folders.
  - . 17 1984-1986. - 2 folders.
  - . 18 1987-1988. - 2 folders.
  - . 19 1989-1990. - 2 folders.
  - . 20 1991.
- Includes 29 slides of chicks.

**Box 15**

2. Japanese Quail - notes.
  - . 1 Performance Summaries Populations #30 to #32. - 1981-1983.
  - . 2 Performance Summaries Populations #23-#29. - 1979. - 2 folders.
  - . 3 Performance Summaries Populations #6 to #20. - 1977.
  - . 4 1974-1978. - 2 folders.
  - . 5 1969-1973. - 2 folders.
  - . 6 1965-1968.

**Box 16**

3. Genetic Stocks - Hatching and housing data. - 1967-1991. - 4 folders.
4. 4.Road Island Red. - 1985-1990.
5. Notes - White Jersey Giants. - 1968-1990.
6. Notes - White Wyandottes. - 1969-1989.
7. Notes - Hungarian Yellow. - 1971-1991.
8. Notes - New Hampshire. - 1980-1991.
9. Notes - Light Sussex. - 1969-1991.
10. Notes - Barred Plymouth Rock. - 1965-1991.
11. Notes - Brown Leghorn. -1965-1990.
12. Notes - White Leghorn. - 1965-1991.

**Box 17**

13. Notes - Fayoumi. - 1969-1991.
14. Notes - Araucana. - 1981-1991. - 2 folders.  
Includes 32 slides.
15. Mille Fleur Booted Bantams. - 1989-1990.
16. Guinea Fowl. - 1971-1990.
17. Turkeys. - 1979-1990.
18. Paroxysm Mutant. - 1972-1991.
19. NA Seizures Mutant (Break Dancer Mutant). - 1985-1991.
20. Missing Upper Beak Mutant. - 1980-1991. - 3 folders.  
Includes 35 slides.

**Box 18**

21. Albino Mutant. 1983-1991. - 2 folders.  
Includes 9 slides.
22. Frizzle. - 1968-1990.
23. Diplopodia 3 & 5. - 1976-1990. - 4 folders.  
Includes 8 slides.
24. Dysplastic Remiges Mutant . - 1984-1985. - 3 folders.  
Includes 4 slides.

**Box 19**

25. Bound Notebooks - Wing Band Index.
  - .1 Wing Band Index 1965 Stocks.
  - .2 Wing Band Index 1966 Stocks.
  - .3 Wing Band Index 1967 Stocks.
  - .4 Wing Band Index 1968 Stocks.
  - .5 Wing Band Index 1969 Stocks.
  - .6 Wing Band Index 1970 Stocks.
  - .7 Wing Band Index 1971 Stocks.
  - .8 Wing Band Index 1972 Stocks.
  - .9 Wing Band Index 1973 Stocks.
  - .10 Wing Band Index 1974 Stocks.
  - .11 Wing Band Index 1975 Stocks.

**Box 20**

- .12 Wing Band Index 1976 Stocks.
- .13 Wing Band Index 1977 Stocks.
- .14 Wing Band Index 1978 Stocks.
- .15 Wing Band Index 1979 Stocks.
- .16 Wing Band Index 1980 Stocks.
- .17 Wing Band Index 1981 Stocks.

- .18 Wing Band Index 1982 Stocks.
- .19 Wing Band Index 1983 Stocks.
- .20 Wing Band Index 1984 Stocks.
- .21 Wing Band Index 1985 Stocks.
- .22 Wing Band Index 1986 Stocks.

**Box 21**

- .23 Wing Band Index 1987 Stocks.
- .24 Wing Band Index 1988 Stocks.
- .25 Wing Band Index 1989 Stocks.
- .26 Wing Band Index 1990 Stocks.

26. Photographs.

- . 1 Epileptic and normal chicks.. - 31 March 1967. - 6 negatives; 6 photographs.  
Photos by Nick Seminoff.
- . 2 College of Agriculture Report. - 1974. - 3 photographs.  
Photos by Gibson. Dr Crawford is in two of the photos.
- . 3 Japanese Quail. - nd. - 9 photographs; 46 negatives.  
Chicks., adults and eggs.
- . 4 Turkey with double oviduct. - nd. - 2 photographs; 4 negatives.
- . 5 Wheaten pheasants. - 27 July 1967. - 10 photographs; 10 negatives.
- . 6 Wheaten pheasant chicks.. - 14 July 1967. - 10 photographs; 12 negatives.
- . 7 Crawford at work. - 1983. - 1 photograph.
- . 8 Rare breeds of fowl. - 1981. - 63 colour negatives.
- . 9 Miscellaneous fowl. - nd. - 2 contact sheets; 3 photographs; 35 negatives.