

Report Blog

An Appraisal of Advancement Opportunities and Salary Levels in the Canadian Wildlife Service

CANADIAN WILDLITE SERVICE WESTERN REGIONAL LIDRARY

In the last few months two major changes which promise to have far-reaching effects upon the future advancement of civil servents have been implemented by the Federal Civil Service. These are the institution of collective bargaining and the new classification system for professional research workers. The extent to which these developments, particularly the new Scientist classification, will affect the biologists of the Canadian Wildlife Service is as yet not entirely clear. In view of this uncertainty it would be well for us to examine our present position carefully and, if remedial action appears varianted, to be prepared to state our case clearly and convincingly when the opportunity presents itself.

Before proceeding to the documentation of existing salary levels and advancement opportunities it would be well to consider briefly the present employment outlook for biologists in general and wildlife biologists in perticular.

Rapidly awakening public interest in wildlife as an important renewable resource for recreational use has stimulated a marked expansion in programs of wildlife management and research at both the federal and provincial levels. Dr. J. M. Speirs in his report "Manpower Needs in Canada for Biologists in the Fisheries and Wildlife Field", given at the 1962 meeting of the Canadian Society of Wildlife and Fisheries Biologists, estimated that during the period from 1962 to 1971 at least a 50 percent increase in staff would be required by agencies employing wildlife biologists. If the 40 percent increase in staff scheduled for our Service in 1965 is at all indicative of the trend it would appear that Dr. Speir's estimate is extremely conservative.

employment opportunities for biologists with wildlife training are by no means limited to government agencies. Those with graduate training to the Ph.D. level are qualified to teach many biological subjects, including ornithology, mammalogy and ecology, at the university level. According to data presented in Professional Manpower Bullstin No. 13 published by the Department of Labor in December 1962, 23.6 percent of the biologists in Canada are employed by colleges and universities and 67.5 percent by government agencies. The anti-cipated growth in staff requirements at colleges and universities between 1962 and 1964 was almost double (9.0% to 4.7%) that of the government agencies but the five-year growth estimate for these two categories is almost equal (34% to 32%). The magnitude of the need of Canadian universities for new staff is revealed in an article by Beatrice Riddell which appeared in the January 9, 1965

issue of the Financial Post. In it she refers to an estimate by the Canadian Universities Foundation that 2500 university teachers (in all fields) will be required by Canadian universities in the fall of 1965. Biology is listed as one of the fields in grantest demand.

Teaching of high school biology is an important source of explayment for biologists not qualified to teach at the university level and there appears to be an increasing emphasis in the schools on the teaching of conservation and related fields. Saskatchewan, for example, has recently adopted a new biology text which is strongly oriented toward ecology. Biologists with a wildlife background are well qualified to teach such courses.

At the present time a biologist with wildlife training, particularly one with graduate training, has little difficulty in finding suitable employment and there is little to suggest that the cituation will be materially altered in the near future. We thus have what is essentially a saller's market as far as wildlife biologists are concerned with agencies computing for their services.

Many factore can affect an organisation's success in compating for staff and these may include such items as geographical location, type of work, frings benefits, etc. In the final analysis, however, the amount of remoneration offered and the opportunities for advancement are usually the two major considerations. The importance of compatitive salaries in securing and holding staff is well expressed in an article entitled "Academic Salaries in Canadian Universities" which appeared in the October 1964 issue of the Canadian Association of University Teachers Sullstin. The particular passage is as follows: "If the non-university field of employment is relatively large, any salary differential will quite quickly be reflected in a corresponding differential in the quality of the staff that can be attracted and retained. If university salaries lag very far bahimi those in a competing profession it becomes very difficult indeed to expand the university staff in the field in question". This statement is equally valid for governmenta, industry or any organization which must hire employees on a competitive basis.

Documentation of the existing salary situation for biologists employed in wildlife work, education and other lines of research has been obtained from the following agencies.

- 1. Newfoundland Resources Branch, Department of Mines, Agriculture and Resources.
- 2. Frince Edward Island Fish and Wildlife Division, Ospartment of Industry and Natural Resources.

- 3 -

- 3. New Brunswick Fish and Wildlife Branch, Department of Lands and Mines.
- 4. Quebec Wildlife Service, Department of Tourism, Fish and Geme.
- 5. Ontario (a) Fish and Wildlife Branch
  - (b) Research Branch, Department of Lands and Foresta.
- 6. Menitoba Wildlife Branch, Department of Minas and Natural Resources.
- 7. Saskatchewan Wildlife Research Division, Department of Natural Mesources.
- 8. Alberta Fish and Geme Division, Department of Lands and Forests.
- 9. British Columbia Fish and Game Branch, Department of Recreation and Conservation.
- 10. National Research Council of Canada,
- 11. Fisheries Research Board of Canada,
- 12. The Canadian Association of University Teachers.
- 13. The Saskatcheran Teacher's Federation.
- 14. Central Saskatchewar Technical Institute.
- 15. Ducke Unlimited (Canada)
- 16. U.S. Fish and Wildlife Service, U.S. Department of the Interior.

Nova Scotia is the only province from which data has not been rereived but it is expected that the necessary material will be forthcoming as soon as their current reclassification program is completed. Pertinent data for each agency have been summarised in Tables 1, 2 and 3 but a more complete resumm of the information provided by these agencies is contained in an appendix to this brief.

The major problem in attempting to compare salary scales and advancement opportunities between two or more agencies is the difficulty in fully equating different class or grade units. The situation is, in fact, so complex that this method was abandoned in favor of using a factor which is a common denominator at all class levels in all organizations, i.e., minimum educational requirements. The approach used in this study has been to attempt to answer the following questions for each agency and to compare the results.

- 1. Now far can a man of avarage ability and application, and possessing a
  (a) Bacheler's, (b) Master's and (c) Ph.D. degree, advance before his
  progress is retarded either by a reduced number of staff positions or
  by requirements for special ability or greater educational qualifications?
- 2. What will his earnings be at the start and end of this pariod?

  Initially I also intended to compare rates of advancement and such rates, based on the number of increments in each class, have been computed and included with the other data. After due consideration, however, I concluded that advancement

Table 1. Comparison of Advantment Opportunities According to Educational Qualifications - Canadian Wildlife Service and Provincial Wildlife Agammies

#### A. With Bachelor's Degree

Agency	Class	Level		Years	No. of
	Start	Limit (a	Range	Achieve Limit(b)	Positions in Classes Involved
Canadian Midlife Service	I	III	4680/9000	13 1/2	29
Newfoundland Resources Branch	I	п	<b>9</b> 700/6600	10	4
P.E.I. Fish & Wildlife Division  New Brunswick Fish & Wildlife Branch	[d)	(6)	6636/8076	5	(a)
Quebec Wildlife Service	I	IV	4200/7000	10	18
Ontario (a) Pish & Wildlife Brunch	I	III	5250/9000	10	46 (g)(s)
(b) Beseeroh Branch Manitoba Wildlife Branch	(h) (1) II	II	5280/6480	8	4
Saskatchewen Wildlife Research Division	1	II	5164/7988	10	6
Alberta Fish & Goes Division	I	11	5380/8820	11	6
B.C. Fish & Gome Bresch	I	III	4884/7980	13	8

- (a) The class or grade beyond which advantement is limited by the low number of positions available, or demands for special ability or educational requirements.
- (b) Based on uninterrupted progress through every calary step in every class, except in cases of overlapping salary ranges between classes.
- (e) The position of Fish and Wildlife Director is at present the only staff position.
- (d) For a person with a Bachelor's Degree to quality he must have additional experience or partial qualifications for a Master's Cegree.
- (a) Rew Brunswick has only one grade of Wildlife Biologist.
- (f) Seven biologist (non-research) positions are located in the Research Branch.
- (g) Personnel have dual mildlife and fisheries responsibility.
- (h) A person with a Bachelor's Degree occid be hired at the Class I level but there are no staff positions in this class.
- (1) Menitoba has no positions at the Class I level.
- (1) Plus long-service increment of \$240-\$380 after 8 years service.

Table 1 cont 'd.

B. With Master's Degree

Agonoy	Class	THE RESERVE AND ADDRESS.	Salary	Years	No. of Positions
	Start	Limit	a) Rango		in Classes ) Involved
Canadian Wildlife Service	(c)	III	6060/9000	13	3B
Penfoundland Resources Branch	II	II	6000/7000	10?	1
P.E.I. Fish & Wildlife Division					(a)
New Brunswick Fish & Wildlife Branch	I	I	6636/8076	5	2
Quebec Wildlife Service	III	IA	5500/7000	6	9 (e)
ontario (a) Fish & Hildlife Branch	П	III	6300/9000	8	æ (f)
(b) Research Branch	II	III	6000/9500	10	15
Monitobe Wildlifs Branch	II	III	5280/7680	10	8
Saskatorean Mildlife Research	I (h)	II	6070 <b>/7968</b>	7	6
Alberta Fish & Game Division	II (i)	II	6540/8230	6	4
3.C. Fish & Came Branch	п	III	5484/7980	. 10	7

- (a) The class or grade beyond which advancement is limited by the low number of positions available or decands for special ability or educational requirements.
- (b) Based on uninterrupted progress through every salary step in every class, except in cases of overlapping salary ranges between classes.
- (c) Persons with newly ecquired-Master's Degrees start at the top of Class I.
- (d) The position of Fish and Wildlife Director is at present the only staff position.
- (e) Six biologist (non-research) positions are located in the Research Granch.
- (f) This number is believed to include fisheries and possibly forestry personnel.
- (g) The period would likely be less as a person with a Master's Degree would undoubtedly be hired at a selezy part way up Class II.
- (h) Range 2.
- (1) Alberta gives no storting point for a person with a Master's Degree but it is assumed that such a person would start close to the lower and of the Class II range.
- (j) Plus long-service increment of \$240-\$360 efter 8 years service.

precedures can be so flatible that variations in these figures from agency to agency may well be meaningless and that there is therefore no point in trying to compare them.

The comparison of the advancement and salary status of the Canadian Widlife Service in relation to that of other agencies has been divided into three categories:

- l. Provincial wildlife agencies
- 2. Non-government agencies.
- : 3. V.S. Fish and Wildlife Service.

Data for persons having either a Bachelor's or a Master's degree and employed by the C.W.S. or a provincial wildlife agency are presented in Tables 14 and 18. Since only three agencies, C.W.S., Quebes and Outario (Research Branch) have specifications for tiring Ph.D.'s and since salaries for such qualifications are the same as for a Master's degree, this category was not considered separately. Starting ealery in the C.W.S. for a biologist with a Eachelor's degree is the .. second lowest among the ten agencies listed. Mariana Balary in the C. W. S., homever, exceeds (by from \$780 to \$2520) that of all other ageodies except Ontario which pays exactly the same salary. It is interesting to note that the two highest paying organizations, C.W.S. and Outario, have 60 percent of the positions open to people with Bachelor's degrees. For a person with a Master's degree the C.W.S. offers the fifth highest starting malary and the second highest (by from \$780 to \$2000) maximum calary, exceeded only by Ontario (Research Branch). In cumparing maximum exteries at the Bachelor's and Master's lavels one finds only three agencies, Newfoundland, Ontario (Research Branch) and Maritoba where possession of a Master's degree will qualify a person for a higher parison calary than he could achieve with a Bachelor's degree. In Newfoundland this difference applies specifically to a biologist hired for A.R.D.A. work.

Turning to non-government agencies (Tables 2A, B, C) we find that at the Bachelor's level C.W.S. also pays the lowest starting salary of five agencies and at the maximum level it is the second lowest. However, maximum salaries in the four top agencies vary by only \$300. No opportunities are available at the Bachelor's level for permanent teaching positions at major universities or in the resource management program at the Central Saskatchewan Technical School. At the Master's level C.W.S. ranks fourth emong eaven organizations in level of starting salary and fifth for maximum calary. We are virtually on a par with the Grown Corporations at the maximum salary level and slightly over \$300 lower

Table 2. Comparison of Advancement Opportunities According to Educational Qualifications - Canadian Wildlife Service, Gram Corporations, Educational Institutions and a Private Organization

## A. With Bachelor's Degree

	Class or	Crade Level	_	Years to	
Agency	Start	Limit (a)	Salary Range	Achieve Limit (b)	
Canadian Wildlife Service	I	ш	4680-9000	13 1/2	
National Research Council	I	II(c)	5400-9100	10 1/2	
Fisheries Ressarch Board	I	II(q)	5400-9100	10 1/2	
University Teaching (Example - V. of Saskatchewan)	منعامله	of MaSc. req	pulsed.	2	
Central Sasketchewan Fedmicel Institute (Resources Banagement)		M. Sc. re	mulred		
Collegiate (High School) Teaching (Example - Saskatoon)	II (e)	IA	5450-9300	12	
Ducks Unlimited (Camada)	I	III	4800-8760	14.	

<sup>(</sup>a) Class or grade beyond which advancement is limited by educational requirements, demands for special ability or reduced number of positions available.

<sup>(</sup>b) Based on uninterrupted progress through all salary steps in every class except where there is an overlap in salary ranges.

<sup>(</sup>c) A person with exceptional ability can, with a bachelor's degree, advance to an Associate Research Officer position and a top salary of \$12,000.

<sup>(</sup>d) No mention is made of a person with a B.Sc. obtaining this level but the statement of qualifications infers that such is possible.

<sup>(</sup>a) Bachelor's Degree plus a teaching certificate (one year) are required to qualify for this class,

Table 2 coat'd.

B. With Master's Degree

	Class or C	rade level		Years to
Agency	Start	Limit (a)	Salary Range	Achieve Limit (b)
Canadian Wildlife Service	I(c)	III	6060-9000	11
National Research Council	I(c)	II(q)	6600-9100	9
Pisheries Research Board	I(e)	II -	6600-9100	9
University teaching (Example - U. of Saskatchewan)	Lecturer	lecturer	6000-8000	7(1)
Central Saskatchewan Technical Institute (Resources Hanagement)	One gr	rade only	7392-8316 7692-9336	4 6
Collegiate (High School) teaching (Example - Saskatoon)	y(h)	· v	5840-9800	12
Ducks Unlimited (Canada)	II	III	5940-8760	10

- (a) Class or grade beyond which advancement is limited by educational requirements, demands for special ability or reduced number of positions available.
- (b) Based on uninterrupted progress through all calary steps in every class except where there is an overlap in salary ranges.
- (c) With a Master's Degree a person starts at the top of the class.
- (d) A person with exceptional ability can, with a Master's Degree, advance to an Associate Research Officer position and a top salary of \$12,000.
- (e) No data available for a Master's Degree but the situation is assumed to be comparable to N. R. C.
- (f) Detimeted.
- (g) lower scale is without a High School teaching certificate; higher scale is with said certificate.
- (h) An honour degree plus a collegiate certificate is required. If the person has a Master's degree plus a collegiate certificate he is entitled to a \$500 bonus, bringing his salary scale to \$5950-\$10300.

Table 2 cont'd.

## C. With Ph.D. Degree

	Class or G		Years to	
Agency	Start	Limit (a)	Salary Range	Achieve Limit
Canadian Wildlife Service	IIA	III	7320-9000	6
National Research Council	II <sup>(e)</sup>	III(q)	8200-12000	10
Fisheries Research Board	II(e)	III	8200-12000	30
University Teaching (Example - U. of Saskatchewan)	Assistant Professor	Associate Professor	7500-12800	12(f)
Central Saskatchewan Technical Institute (Resources management)	(g)			
Collegiate (High School) teaching (Brample - Saskatoon)	(g)	[4		
Ducks Unlimited (Canada)	(g)			

<sup>(</sup>a) Class or grade beyond which advancement is limited by educational requirements, demands for special ability or reduced number of positions available.

<sup>(</sup>b) Pased on uninterrupted progress through all salary steps in every class except where there is an overlap in salary ranges.

<sup>(</sup>c) Person with a new Ph.D. starts part-way up the scale in Class II.

<sup>(</sup>d) A person with exceptional ability can, without accepting administrative responsibilities, advance to the rank of Principal Research Officer (Class V) and a top salary of \$16,500.

<sup>(</sup>e) No specific data on starting salary for new Ph.D. or advancement beyond the Class III level but assumed to be comparable to N.R.C.

<sup>(</sup>f) Estimated on the basis of average rate of advencement by staff.

<sup>(</sup>g) No special provision for hiring Ph.D.'s - presumably would be hired part way up the salary scale for a person with a Master's degree.

It is in relation to salaries paid for high school teaching, however, that our Service compares most unfavorably. In Saskatoon, where salaries compare favorably with those offered by city high schools elsewhere in the country, a person with a Master's degree who takes an additional year (or two summer schools) of education courses can qualify for salaries ranging up to \$1300 higher than those paid by the C.W.S. Salaries paid by Ducks Unlimited, the only private organization involved in wildlife work for which I have data, pay salaries at both the Bachelor's and Master's levels which are slightly lower than C.W.S.

The non-government agencies which hire predominantly biologists at the Ph.D. level are the National Research Council, Fisheries Research Board and tho universities end it is here that there is the most marked differential in salary levels. Starting calaries paid for a new Ph.D. with no experience are \$150 higher at the University of Saskatchewan and \$860 higher at the Crown Corporations than they are with the C.W.S. but maximum calaries are \$3800 and \$3000 higher respectively! It should be remembered also that the maximum salaries referred to here are ones readily attainable by those of average ability and that a person with more ability can go even further. In the National Research Council, for example, a person can, if he has the ability, attain the rank of Principal Research Officer at a maximum salary of \$16500 without accepting any administrative responsibilities. This situation presents two problems for our organization First, there is the question of experienced personnel presently on staff (17 percent of the staff of the Canadian Wildlife Service below the Biologist 4 level hold Ph.D. degrees and an additional 38 percent are either working toward this degree or are contemplating doing so) boving to higher paying positions at universities and, second, there is the even greater difficulty of trying to attract experienced men of high colibre from these same institutions to meet our growing requirements for researchers in a wide range of specialized fields.

The comparison of salary avalue and advancement opportunities in the Canadian Wildlife Service and the U.S. Fish and Wildlife Service may be subject to question since the level of national economy and standard of living of another country are involved. The U.S.F.W.S. is, however, the closest counterpart of the C.W.S. in teres of scope of function and level of responsibility and for that reason it is perhaps worthwhile to include such data for general information. In the U.S. Fish and Wildlife Service it is possible for a person with ability to advance quite rapidly to the GS. It level without changing positions and without

changing positions and without having to work his way to the top of each grade (a process which, by the book, would require 18 to 21 years for each grade). Exarting malarism in the U.S.F.W.S. at the Bachelor's, Master's and Ph.D. Levels are \$320, \$1160 and \$1330 higher, respectively, then are the comparable malarism in the C.W.S. (Table 3). The maximum calary at the CS-11 level is \$200 higher than the top malary for a biologist III in our Service.

In the preceding pages the salaries paid to biologists employed by the G.W.S. have been examined at some length in relation to those paid by other agencies. Before summarising those findings it might be well to look triarly at the position of biologists as a group in relation to other finding of natural science. Data presented in Professional Manpower Bulletin No. PM/6 published by the Department of labor in July 1964 show that:

- (a) Nedian entual earnings in 1963 in the field of natural exists as a whole were \$9400 but the endian for biologists was only \$870D, second lowest of eight categories.
- (b) Median annual carmings in the fields of engineering (group median of \$9600) for a person with a Bachelor's degree and five years experience were as follows a community to type of employment: Covernment \$7300

Private Industry - 77600.

The levels for a person with a Master's degree and five years experience were: Government - \$8600

Private Industry - \$8,00.

The levels for a person with a Ph.D. degree and five years experience were: Ocversment - \$2700

Private hinsty - \$10500.

On the basis of these data it appears that calaries at the Enchalur's and Master's levels are fairly computitive between government and industry. Industrial selaries are higher by \$300 at the Eachelor's level and government salaries are higher by \$200 at the Easter's level. At the Ph.D. level, however, government salaries fall well below (by \$1800) those paid by private industry. It would appear that governments place an annual presides of \$100 on the training and experience which accrue from the attainment of a Ph.D. degree.

Table 5. Comparison of Advancement Opportunities Assording to Educational Qualifications - Canadian Vildlife Service and V.S. Fish and Wildlife Service.

Agency & Educational Qualification	Class	Level	Salary Range	Years to
	Start Limit (a)			Limit (b)
A. Bachelor's Degree				
Canadian Wildlife Service	I	III	4680/9000	13 1/2
U.S. Fish & Wildlife Bervice	dS≈6	GS-11	5000/11305	(c)
B. Master's Degree	(4)		A Para Maria	4d . s
Canadian Wildlife Service.	(a)	III	6060/9000	211
U.S. Fish & Wildlife Service	· GS-9	15-11	7220/11:205	(e)
C. Ph.D. Degree				
Canadian Wildlife Service	IIA	111	7320/9000	6
U.S. Fish & Wildlife		35-11	8550/11905	(0)

- (a) The class or grade beyond which envancement is limited by the low number of positions available or demands for special ability or educational requirements.
- (b) Besed on uninterrupted progress through every salary step in every class, except in cases of overlapping salary ranges between classes.
- (c) Celoulation of years to limit is meaningless as it is somen practice to exard within-grade increments at more frequent than prescribed intervals to qualified personnel and to advance such paraonnal before they reach the top of their grade.
- (d) Persons with newly acquired Master's Degrees start at the top of Class I.

#### Summation

- 1. Maximum salaries paid to biologists by the Canadian Wildlife Service are appreciably better (by \$780 to \$2000 at the Masters and Ph.D. levele) than those of any provincial agency except Ontario which pays at an equal rate in the Fish and Wildlife Branch and \$500 more (at the Master's and Ph.D. levele) in the Research Branch.
- 2. Enginum enteries paid by the National Research Council and Figherics Research Board are comperable to those paid by the C.7.S. at the Bachelor's and Master's Loyals but are \$3000 higher at the Fh.D. level.
- 3. Maximum university (Saskstobewan) celaries at the Master's level are \$1000 less than those paid by C.W.S. but at the Ph.D. level exceed ours by \$3800.
- 4. The Contral Saskatchevan Technical Datitute pays a maximum salery for a Master's degree (or Ph.D.) plus a high school teacher's certificate which is \$336 greater than for comparable qualifications in the C.W.S.
- 5. Maximum salaries for high school teachers (Saskatoon) range from \$300 greater at the Bachelor's level to \$1300 greater at the Master's and Ph.D. levels then do those of C.F.S..
- 6. Ducks Unlimited, the only private wildlife organization ecrtaoted, paya galeries which are alightly lower than those of C.W.S. at the Bechelor's and Laster's levels and appearantly follows our lead in salary revisions.
- 7. Maximum C.W.S. salaries are oppresizely lower(by \$2300) at all educational levels then those paid by the U.S. Fish and Wildlife Service.
- 8. Biologists as a group have nationally, the second lowest median sulary in the natural ectence category. Biologists employed by governments receive salaries at the Bachelom's and Master's levels which are approximately equivalent to those paid by industry but at the Ph.D. level there is an \$1800 differential in favor of industry.

## Conclusions

- 2. Biologists with a bachelor's or Mestor's degree can do as well or better, salery-wise, in the Canadian Wildlife Service than they can in ony other Canadian organization, governmental or otherwise, with the exception of city high schools and the Research Branch of the Ontario Department of Lands and Forests.
- 2. Universities, Grown Comporations and even city high schools offer appreciably more remuneration to the biologist with a Ph.D. than does the C.W.S.,

3. The salary differential at the Ph.D. level can be resolved in one of two ways. First, and most logical, is the inclusion of C.W.S. biologists in the new Scientist classification system which provides for advancement to the \$12,000 level without the necessity of carrying requests for approval of reclassification beyond the departmental level. Second, there is the possibility of pressing f r full implementation of the Biologist (Research) sub-series of our ex sting classification system, the framework of which has existed in Civil Service Commission specifications since November, 1960.

# Recommendations

Further action should await clarification of (a) our status with regard to the new classification system and (b) Departmental policy (in the event we are included in the new system) regard ng reclassification of personnel to the Scientist 2 level.

John B. Millar
Wildlife Biologist

Sashatoon, Seek.

Merch 29, 1985.

Class	Title of Position	Definition of Class (Rind or Level of Fork)	Giginum Qualifications	Number of	Educat	ional I	evel	Sal	ary
Grade			422222000	.00101010		E.So.	The second second	Range	No. of (a
I	Biologist I	Officers work under supervision. Problems are easigned and in most eases the plan of work is outlined by a s ior officer. They are seldom expected to plan cooperative projects. May be expected to train and supervise non-professional assistants.	B. 8e.	1	1			\$4,680 to \$6,060	5 semi- ennual & l annual
II	Biologica	Supervision is general in nature. The major re- spansibility for the way in which projects are conducted is assumed by afficers at this level. The professional and to train and supervise non-professional staff.	B.So.& 4 yrs. experience or M.So.& 2 yrs. experience	8	3	5		\$6,180 to \$7,320	4 ennuel
IIA	Biologist IIA	THE CH SCHOOL BOLLS	Ph.D no experience	4			4	\$7,520 to \$7,680	1 annual
III	Biologia III	or no technical guidance is provided. Officers assume the major responsibility for the technical advice provided to industry. May train and supervise professional and non-professional staff and may delegate responsibility for preliminary interpretation of data & initial writing of reports.	B.Sc. & 7 yrs. experience or Ph.D. & 3 yrs. experience	16	1	15	1	\$7,860 \$9,000	4 angual
M	Biologist	Fork invol a supervision below the first major edministrative level. May be head an organizational unit comprising one main & one or more field or branch establishments or head of a laboratory, either establishment of which has a staff of at least 3 Biologist 2 s & 1 Biologist 3.	B.So. & 10 yrs. experience or M.So. & 8 yrs. experience or Ph.D. & 6 yrs. experience Recognition as a special-ist in his field	(a) 5	1	3	1	\$9,140 to \$10,700	4 annual
٧	Biologist	Regional superintendents and staff specialists.	B.So.& 14 yrs. experience or 3.So.& 12 yrs. experience or Ph.D.& 10 yrs. experience		2		4	\$10,900 to \$12,500	3 annual
AI	Chief of Gamdian Fildlife Service	Responsible for direction of the entire Service.	Education as listed for creceding estagories + extensive supervisory & administrative experience	1			1	\$14,000 to \$15,100	e amual

<sup>(</sup>a) Above base salary

<sup>(</sup>b) (1) At the Biologist II level extra duty pay for non-research supervisory duties adds \$300 to the amuel salary.

<sup>(2)</sup> At the Biologist III level extra duty pay for research supervisory duties addition to the amusl salary.

(c) Including one receiving supervisory pay.

(d) Plus one Veterinary 4.

Class	Title of	Definition of less (Kind or Level of Nork)	Kinisun ualifications	Number of Positions		tional Personn		Range	Salary (b)
Grade			,442,444,444	(e)	B.Sc.	-	Ph.D.		Inoroment
I	Biologist I (Rosearch)	Officers work under supervision. Problems are designed and in most cases the plan of work is outlined by a senior officer. They are selden expected to plan occoperative projects. May be expected to train and supervise non-professional staff.	B.So.						
11	Siologist II (Researab)	Officers work under general supervision. Problems are assigned but not in terms of specific experiments. Officer must develop theoretical approaches to problems and plan and execute the work. May be required to supervise and train professional and non-professional workers.	B.So.& 4 yrs. experience or S.Sc.& 2 yrs. experience or Ph.D.						
III	Siologist III (Research)	Work is performed under general direction. The major responsibility for the way in which projects are carried out is assumed by officers at this level. May train and supervise professional and non-professional staff and may delegate responsibility for gralinizary interpretation of data and initial writing of reports.	B.Sc.& 7 yrs.experience or M.Sc.& 5 yrs.experience of Ph.D.& 3 yrs.experience Has established a reputa- tion as a research worker in a perticular fie d.						
IA	Biologist IV (Research)	O foors recoive little or no technical direction. Officers are responsible for a comprehensive programm of research in a field of work where it is difficult to prepare detailed work plans be- cause pr noitles and procedures are not well es- tablished. May assign projects and delegate re- sponsibility for interpreting data and writing reports among secistants.	B.So.& 10 yrs.experience or M.So.& 8 yrs.experience or Ph.D.& 6 yrs.experience. Recognized by workers in their can or ellied fields ac specialists and authorities.						
γ	310logist V (Research)	Officers receive no technical supervision in their field of specialization. Condust e highly specialized and involved research programs. Supervisory activities are as for Biologist 4.	B.So.& 14 yra.experience or M.So.& 12 yra.experience or Ph.D.& 10 yra.experience Internationally recognized as a apecialist and authority in his own field.						

<sup>(</sup>a) Entire C.W.S. Staff is listed under the Biologist sub-series es information on research appointments is not at band.

<sup>(</sup>b) Salaries are the same as for the Biologist sub-series.

Table B	Province -	Newfoundland Department - Zine	e, Agriculture and Reson	Toes	Branch	- Resc			-
				Number		reame)			Salary
or rade	Title of Position	Definition of Class (Kind or Level of Nork)	Hinium Qualifications	of Positions	B.Se.	M.Se.	Ph.D.	RADGO	No. of (a) Increments
I	Director I (Glidlife Biologist)	Field Biologiete to gather and process data	B.Sc.	3	3			\$5,700 to \$6,100	4 eanual
11	Director II (Director of Wildlife)	Supervise A.R.D.A. land inventory progres for wildlife (seese)	B.Se.	(b)				\$6,200 to \$6,600 (a)	4 amutal
III									18.
IA	Director IV (Director of wildlife management)	In charge of the wildlife emagement and research progress for Nowfoundland,	B.Se.	1		1		\$7,700 to \$8,400	7 April

(a) Above base ealary
(b) Position precised in 1965 - not filled as of February 1965.

<sup>(</sup>c) Selaries relative to A.R.D.A. ere flexible, for a person with a B.Se. - \$5,000 - \$6,000, H.Se. \$6,000 - \$7,000, Ph.D. - \$8,000.

Clasa	Title of	Definition of Class	Ht to I ma = I	(b) Humber of	 tional L Personne		8	Ro. of la
Grado	Position	(Rind or level of Rork)	juglifications	Positions	 -	Ph.D.	Range	Increment
	Figh and Wildlife Director	Responsible for all technical edmini tration and public relations work in planning and directing the province's fish end wildlife program.	Graduation from a University with major coursesin biology, expplemented by graduate work to the level of a Master's Dogree in Midlife Management, and considerable supervisory experience in middlife canagement; or any equivalent combination of training and experience.		1		\$6,069 to \$7,377	4 annual w en merited

<sup>(</sup>a) Above base salery.

<sup>(</sup>b) It is expected that a wildlife bislogs t will be added to the staff in 1965.

Table D

Province - NewBrunswick

Department - Lands and Lines

B anch - Fish and Wildlife

Class or	Title of Fosition	Definition of Class (Kind or Level of Work)	blinimum	Number of Positions	Educational Level of Personnel			Sqlery		
Grado			Qualifications		B.Sc.	y.So.	Pb.D.	Range	No. of (a	
I	Waldlife Biologist	Responsible for planning and conducting wildlife surveys and investigations.  Nork is evaluated by senior officials through eview of reports and effectiveness of services rendered and the programs developed.	G aduation from a University with major course work in biology supplemented by graduate work to the level of an M.So, in Middife and considerable experience in wildlife management or any equivalent combination of training and experience	2	(b) 1	1		\$6,636 to \$8,076	(o) 4 amual	

<sup>(</sup>a) Above bese eslary.

<sup>(</sup>b) Forking toward M.Sc.

<sup>(</sup>c) Inc eases a e at a level of 5% per year.
Wade on the econgendation of the Branch Director.

Class	Title of	Definition of Class	Minimum	Number	of P	ional Le		Range	Selary
Grade I	Position	(Kind or Level of Work)  Jorka under direct supervision on wildlife project. Lay be required to supervise technicians.	B.Sc.	Positions 6	6	H.So.	Ph.D.	\$4,200 to \$5,000	4 seci-
II		Supervision is sure resote. The incumbent may act as a team leader supervising a biologist I and two technicians.	B.Se. + 3 yra, experience	3	3	1		\$4,800 to \$5,500	4 annual
III		Inouperts are classed as project leaders or junior research biologists.	U.Sc. or B.Sc. & Tyre, experience	8		2		\$5,500 to \$6,600	4 annual
IA	Senior operation Biologist	Under the supervision of district chief.	Ph.D. or U.So. & 2 frs. experience					\$6,000 to \$7,000	4 annual
	Senior Research Biologist	Under supervision of Division director.	3.So. & 6 yrs. experience	7	5	2	2		
V	District Chiefs	Senior biologist in cherge of special project	Ph.D. or M.So. & 4 yrs, experience	15	1.	9		\$6,600 to	4 ennual
•	Division	Junior assistant director of Wildlife Service	B.So. & 8 yrs. experience					\$8,000 \$8,400 \$9,600	4 amual
AI	Assistant Director(senior)	Aceinistration	*	1			1	\$9,300 to \$11,800	?
TII	Director	Responsible for direction of entire provincial wildlife management and received program.	•	1			1	\$10,800 \$11,800	?

<sup>(</sup>a) Above bess calary.

<sup>(</sup>b) Salary reclassification is currently under cognistion.

Class		(-)		guaber (4)	Educa	tional Person	level	Se	lary
	Title of Position	Omfinition of Class (Kind or Level of Work)	Gualifications	Position 2					No. of (a) Increments
I	eiologist I	Uniditale routine professional assignments on field or laboratory projects, usually under the supervision of an experiment biologist.	Graduation in biology, soclogy or closely related honour course	14 (1)				\$5,250 to \$6,300	Four semi-annual
п	Biologist II	Professional biological work performed under general direction with considerable latitude for independent declaims. Involves preparation of detailed plans for wildlife studies and technical direction with respect to the implementation of same.	B.So. & 2 yro. acceptable experience  OR  K.Sc. & 1 yr. experience	16(4)				\$6,300 to \$7,500	Four annual
III	Biologist III	Professional and supervisory work pertaining to wildlife and fisheries canagement programs in a district or comparable duties in head office. Involves supervision of junior biologists, Conservation Officers, etc.	B.Se. & 3 yrs. of progressively responsible experience OR N.Sc. & 2 yrs. experience	14 (2)	1			\$7,200 to \$9,000	Five enmal
14	Senior Biologist	Responsibility for the administration and professional direction of a major wildlife or fisheries unit — ordinarily the position involves supervision of staff in Read Office.	B.Sc. & many years experience. Administrative and supervisory ability, initiative, good judgment	4 (1)				\$8,600 to \$10,500	Five annual

<sup>(</sup>a) Above base salary.

<sup>(</sup>b) A number of biologists positions are located in the Research Branch.

<sup>(</sup>c) Personal have that responsibility for wildlife and finheries annegement

<sup>(</sup>d) Figures in parentheses indicate the number of positions out of the total which are located in the Research Branch.

<sup>(</sup>s) Staff elso includes Section Supervisor 1-1 Section Supervisor 2-1

<sup>(</sup>f) Data not provided.

1233				thumber (c)	Educa	tional Person			lary
T.Cle	Title of Position	Lefinition of Class (Kind or Level of Work)	Minimum Qualifications	of (d)		H.Sc.	Ph.U.	Range	No. of (a) Increments
ĭ	Research Scientist I	Under immediate supervision to perticipate in planning and execution of projects. Work involves making analyses, compilation of data and assisting in writing reports. Supervision of non-professional staff may be required.	Cracustion in forestry or honour degree in biology or other suitable field of science.	0				\$5,250 to \$6,300	Four semi-
ï	Research Scientist II	Under supervision of a senior scientist plans and conducts assigned research studies, analyses and interprots results and prepares reports and scientific papers. Pay be required to supervise and train non-professional staff.	M.Sc. Demonstrated ability to carry out research	5		5		\$6,000 to \$7,200	four entual
III	Research Scientist III	Responsible for a research program in a special field of inquiry. Supervision is general end the scientist is responsible for determining and developing methode and procedures. Scientists train and supervise junior sci ntists and non-professional staff.	M.Sc. & 3 yrs. acceptable experience OR Fh.D. supported by significant research	10		8	2	\$7,600 to \$9,500	Four annual
.TV	Rescarch Scientist IV	Conducts and supervises a comprehensive research progrem involving a number of individual projects or independent conduct of a highly specialized research program. Receives no technical direction. Assigns projects to junior scientists.	M.Sc. & 7 yrs. experience OR Ph.D. & 4 yrs. experience	6		3	3	\$10,000 to \$12,000	Four
V	Research Scientist	Class definition is ossuntially as for Research Scientist IV. Advancement to this grade is limited to scientists who have achieved international recognition as authorities in their own field.	M.Sc. & 10 yrs. experience OR Ph.D. & 7 yrs. experience	2		1		\$11,000 to \$13,000	Four enavel

<sup>(</sup>a) Above base salary

Province - Unterio

<sup>(</sup>b) Pigures inferred on the basis of date provided

<sup>(</sup>c) Figures listed include fleheries research personnel

<sup>(</sup>d) Staff siso includes: Research Supervisor 1-2 Rasearch Supervisor 2-2.

Table G.

Beal				Kumber		tionsl Person		Salary	
	Title of Position	Definition of Class (Kind or Level of Work)	Minimum Qualifications	of Positions	B.Sc.	M.Sc.	Ph.D.	Renge	No. of (a) Increments
I	Game Biologist I	A traince position. Incumbents work under close supervision on wildlife research and management problems	B.Sc. No experience	0		27		\$4,800 to \$6,000	Fivo annual
II	Came Biologist II	Incumbents work under supervision on wildlife research and management problems. They are expected to exercise considerable independence in planning and carrying out work programs. They may supervise biological assistants in the collection and processing of data.	B.Sc. AND (a) M.Sc. (or partial completion thereof) (b) Several years field experience	4	3			\$5,280 to \$6,680	Five annual
III	Comp Etologist III	Professional work involving wildlife research and management programs on an independent level with only cursory supervision. Usually involves supervision of lower-graded biologists, conservation officers, clerical workers; etc.	8.Sc. AND (a) M.Sc. (or partial completion thereof) AND (b) Several years field experience	4	1	3		\$6,000 to \$7,680	Five annual
IŸ	Game Biologiet IV	Professional supervisory work involving direction of broad phases of wildlife research and management programs	M.Sc. plus esveral years experience including some at a responsible supervisory and adminstrative level.	0				\$6,960 to \$8,760	Five annual
	Chief, Gene and Fur Management	Responsible for the direction of the entire wildlife research and management program in the province.	M.Sc. plus extensive experience in the admin- stration and management of wildlife recources.	1		1		\$7,680 to \$9,460	Fivo amual

<sup>(</sup>a) Above base salary.

Class	Control Control Control			Number		tional Person		1472546	lary
100000000000000000000000000000000000000	Title of Position	Definition of Class (Kind or level of Work)	Kinimum Qualifications	of Positions	B.Sc.	M.Sc.	Ph.D.	Range	No. of (a) Increments
	Wildlife Boologist	Professional scientific work in performing wildlife research studies under the technical supervision of	Range I - B.Sa.	3	3			\$5,184 to \$6,312	Five annual
	I	Area Supervisors	Range II - H.Sc.					\$6,070-to \$7,680	Five enqual
II	Wildlife Ecologist II	desputable professional work in wildlife research including expervision of Ecologist I and biological easistants.	B.Sc. plus 4 yrs. in wildlife the grant CB M.Sc. and several years related experience	3	2	1		\$6,564 to \$7,968	Five annual
III	Wildlife Beologist III (Chief Wildlife Boologist)	Professional supervisory work in directing a technical wildlife research program.	E.Sc. plus extensive experience in wildlife research, including supervisory experience	1(P)				\$7,392 to \$8,976	Five amual
10	Assistant Director.	Supervises the operation of the Wildlife Branch	M.St. in wildlife management plus extensive experience in administration and management of wildlife resources	1		1		\$7,992 to \$9,708	Pive Annual
V	Director	(e)	(c)	1				{c}	(c)

<sup>(</sup>a) Above base salary

<sup>(</sup>b) Position vacant as of Harch, 1965.

<sup>(</sup>c)Data not provided.

Close	Title of	Definition of Class	in in man	Number		ional I		5	Salary
Grade	Position	(Kind or Level of Work)	¿uelifications	Positions	B.Ba.	1.86.	Ph.D.	Rango	No. of (a) Increments
I	#11dlife Biologist I	Professional work in parforming wildlife management and resourch studies. Incumbents work under the supervision of a Fish and Mildlife Biologist II.	B.Sc. or equivalent combination of experience end education.	2	2			\$5,320 to \$7,140	7 actual
II	Wildlife Biologist II	Advanced professional work involving considerable independence in planning and conducting mildlife management and research procedures. Lay involve supervision of assistantiand field staff.	B.So. plus considerable experience in wildlife study including some in a supervisory or edministrative copacity.	4	1 B.A. 1 B.So.	. 3		\$6,540 to \$8,830	5 annual
A	Fildlife Biologist III (Chief Hild- life Biologist)	Supervision of wildlife resources management and research programs throughout the province. Fork in subject to review by the Fish and Kildlife Director.	B.Sc. plus considerable experience in administra- tion and annagement of	1		1		\$7,140 to \$9,000	5 annuel
В	Fish end Wildlife Administrator	Supervision of enforcement of regulatory controls throughout province end administration of operational and service procedures. Involves supervision of conservation offices and related office staff. Fork is subject to review by Director.	University graduation in law plus considerable experience in law enforcement and resources edministration.	1				\$7,140 to \$9,000.	5 ennual
IA	Fish ond Wildlife Director	Plans and directs operations of the Fish and Fildlife Division. Supervises all stn f. Fork is subject to review by the deputy minister of Landa and Porests.	Univ. graduation in agriculture or Biology plus extensive experience in Fish and Wildlife edministration and management.	1	3			\$9,000 to \$11,400	(0)

<sup>(</sup>a) Above bose salary.

<sup>(</sup>b) "Long sorvice" increment of (20 to \$30 per month (depending on one's classi idation) is granted after 8 years service.

<sup>(</sup>c) No. of increments not known.

Class	litte of	Definition of Cleas	Miniaun	Number		tional .			Salary
Grada	Position	(Mind or Lavel of Work)	Qualifications	Positions	B.So.	M.Sc.	Ph.D.	Renge	No. 01 (8
1	Comp Management Biologist I	To conduct under direction, technical studies relative to the management of wildlife.	University graduation in zoclogy and preferably wildlife ocology.	1(0)	1			\$4,684 to \$5,940	5 annual
II	Game (innagomen-t Biologiet II	To conduct under direction, technical studies rolative to the management of wildlife.	University greduction in zoology and preferably wildlife ecology plus post-graduate training.	(a)		1		\$5,454 to \$6,720	5 աղբսո1
ııı	Come Monogement Biologist III	To undertake and supervise wildlife investigations necessary for management of wildlife.	University graduation in zoology and preforably rildlife ecology plus yest-graduate training toward a leaster's degree	(e) 6	(z) 1	\$		\$6,456 to \$7,980	5 angual
A. IV B.	Assistant Chief Managemert Biologist Research Biologists	(h)	(h)	3	(g)		1	\$6,960 to \$8,700	5 ennusi.
Ţ	Chief Game Namesenaut Biologist	(h)	(n)	(5)				\$7,980 to \$9.420	Lanuce &

(a) Above base salery.

(b) A pay increase is scheduled for 1.985-66.

(c) Insurbent in process of promotion to Grade II.

(d) Inquipent in process of promotion to Grade III.

(e) Cas inquabout in process of promotion to Grade IV.

(f) One inquident in process of promotion to Grave V.

(5) Incumber to have post @ zdeate training.

(h) Peta has not been obtained.

Table K.

## National Research Council

Class	Title of	Definition of Class	Viniaua	Nurber	Control of	iosel I		s	salary
Grade	Position	(Mind or Lovel of Work)	jualifications	of Positions	B.Sc.	M.Sc.	Ph.D.	Range	No. of (a)
I	Junior Research Officer	To undertake research on assigned problems under the supervision of a senior officer.	B.Sc.					\$5,400 ±0 \$6,600	5 semi- annus2
II	Assistant Research Officer	To assist in research of major importance and difficulty and, when required, to mador-take assigned problems without close supervision.	Ph.D + 2 years' research experience					\$7,000 to \$9.100	7 annuel
III	Associate Recearch Officer	To undertake and be responsible for research work on problems of songiderable importance and difficulty. To supervise the work of suberdisate research workers.	Ph.D. + 5-8 years of research experience				9 10 10 10 10 10 10 10 10 10 10 10 10 10	\$9.500 to \$12,000	6 annual
IĀ	Senior Research Officer	To be responsible for major research prejects.	Ph.D considerable experience and is a recognized authority in his field.					\$12,500 to 015,000	5 annus
V	Frincipal Research Officer	To direct e droad research program.	Ph.D. and is resognized internationally as an authority in his field.					\$15,000 to \$15,000	2 annuel.

<sup>(</sup>a) Above been salemy,

<sup>(</sup>b) Staff data are not presented because many scientific disciplines, other than biologists, are involved.

Table L. Fisheries Research Board of Conade

Cless		of Class	210-1-12-	(b)		cional		Salary		
or Cx de	Title of Position	Definition of Class (Kind or Level of Work)	Vinimum Qualifications	of Positions	B.Sc.	¥.So.	Ph.D.	Range	No. of (a) Increments	
I	Assistant Scientiet	Assists in carrying out projects according to plan, including the supervision of the work of others.	University graduation, usually with honors, with experience in the field related to the duties to be parformed.					\$5.400 to \$6,500	five same	
II	Associate Scientist	Assists in pluming and carrying out recentch projects of major significance. Plans and directs subordinate projects. Supervises the work of technical and professional assistants.	Ph.D. or its equivalent in oducation, experience and demonstrated research ability.					\$7,000 to \$1,100	seven annual	
пі	Senier Scientiut	Responsible for planning and directing research projects.	Th.D. or its equivalent Demonstrated research and organizational ability with at least 5 years experience in related fields					\$9,100 to \$12,000	soven	

- (a) Abore base selery
- (b) Staff data are not presented because nony scientific disciplines, other them biologists, are involved.

Table H - Sminry Scales for some Major Camadian Universities - 1964 - 65.

latagory (e)	Hontreal University	Quoen's University	Medill University	University of Toronto	Unive sity of Manitoba	University of Saskatchewen	University of Alberta	University of Britis of marchines
e etarer	\$6,000/\$9,500 (\$200 & \$300 increment)	\$6,000/\$7,500	\$6,250/\$7,500 (b,c)	\$5,000/37,500 (b,c)	Not stated /\$7,499 (a)	\$6,000/\$8,000 (\$300 increment)	No minimum or maximum (c)	\$5,500/\$7,000 (b.c)
Assistant Exofessor	\$7,500/\$10,500 (\$200 & \$300 increment)	\$7,500/\$9,500 (b,c)	\$7,800/10,000 (b,e)	\$7,500/\$9,500 {b,c}	\$7.500/\$9,499 (c)	\$7,500/\$9,800 {\$400 irroment)	\$7,500/\$9,600 (\$400 increment)	\$7,000/\$9,000 :(6,c)
ngodiete Toeser	\$10,000/\$13,000 (8-300 increment)	\$9,500/\$13,000 (b,c)	\$10,000/\$13,000 {b,c}	£9,600/\$13,000 (b,c)	\$9,500/\$12,999 (c)	\$10,000/\$12,800 (\$400 increment)	\$12,600	\$9,000/\$12,000 (6,0)

- (a) 1. Kind or level of work Secause of the wide variations in job specifications for individual positions no ettempt has been made to specifications for individual positions no ettempt has been made to specifications for individual positions no ettempt has been made to
  - 2. Mintaga qualifications a Lasturer a must have a Master's degree and is commonly someone working toward a Ph.D. Acres. Angletent and Associate Professors Ph.D. required by most Universities.
  - 3 Nave of Avantament variable Averago length of the regulared to reach the top of the Assistant Professor level appears to be a the criter of five years with another our to seven years required to attain the top of the Associate Professor 1-----
- (b) No stated most win a upper well a given is minimum for work highest class.
- No stated increment.

Table N. Central Saekatcheran Technical Institute.

Class	Title of	Definition of Class	Minipum	Number	of ,	ticel Persone	1	Salary		
- wade	Position	Position (Kind or Level of Nork) Qualifications	Qualificetions	Positions		M.Sc.	Ph.D.		No. of (a) Increments	
Ţ	Rechnology Instructor	Develop resources maragement course as required.  12-15 hours per week teaching load.  Student coumselling.  Individual instructors specialize in wildlife, fisheries, forestry and parks management.	B.So. in Wildlife plus M.So. and 5 years experience plus Sask. High School teacher's certificate (optional).	(a)		\$	1	(b) \$7.393 to \$8,316 \$7,692( to \$9,336	3 agamal	

- (n) Atove base salery
- (b) Without a Saekutchewan Righ School Toacher's Certificate.
- (c) With a Szakatcheven High School Teacher's Certificate.
- (d) One consistion vacant as of March 1965.

Teble 0. Saskatoon Collegiate Institutes

Class	Title of	Definition of Class	Vintar	Number		tional Person		\$	Belary
or (e) Grade	Position	(Kind or Level of Work)	Qualifications	Positions (d)	B.So.			Range	No. of (a Inoroments
IA		Apparently no fixed differences in teaching requirements between classes.	Four years training - B.Sc. & 1 year to get teaching certificate.				1 1	\$5,450 to \$9,300	ll apqual
¥			Pive years training- one year for tecching certificate. plus Conors Degree					\$5,840 to \$9,860	ll ennual
VI Lass V with bonus)			B.R1. degree + Honors Degree  Master's degree + collegiste institute certificate				1 1	\$6,340 to \$10,300	ll anawel

<sup>(</sup>a) Above base salery.

<sup>(</sup>b) Salary scale effective July 1, 1965.

<sup>(</sup>o) Classes I, II & III are for persons having one, two and three years education training respectively.

<sup>(</sup>d) No staff data are presented as many fields of knowledge, other than biologists are involved.

Table P. Duoka Unlimited

Class	Title of	Definition of Class	Minimum	Number		etional Person			Salary
Grade	Position	(Kind or Level of Nork)	Qualifications	of Positions	B.Sc.	M.Sc.	Ph.D.	Range	No. of (a
I	Biologist I	Under supervision to carry out research projects relating to waterfowl management.	B.3c.	0				\$4,800 to \$5,940	4 annual
II	Biologiet II	Under supervision to carry out research projects relating to waterfowl analogment.	B.Sc. plus some experience	(b)				\$5,940 to \$7,140	4 onnual
III	Biologist III	Responsible for supervising the biological programs in a province. Directs the activities of Biologists I & II and technicians.	B.Sc. plus cerarel years experience	2	(e) 1	1		\$7,320 to \$6,760	4 enmal
IV	Chief Biologist	Responsible for directing the entire biological programms of Duoka Unlimited.	University Greduate plus extensive experience	1		1		(d)	(a)

<sup>(</sup>a) Above base salary.

- (e) Working on M.Sc.
- (d) Deta not obtained.

<sup>(</sup>b) Position vacant as of March 1965.

Class Orođe	Title of (c) Position	Definition of Class (Kind or Level of Work)	Kinima (b)	Salary	
			Qualifications	Range	No. of Incres
I	Fildlife Biologist GS - 5	Positions at this level are characterized by intensive training end the performence of supporting work in research requiring professional training but little or no experience.	4 year course of study lesding to a Bachelor's or higher degree with major study in zoology, wildlife biology or botany.	\$5,000 to \$6,425	Ś
II	Wildlif'e Biologist GS - 7	Pocitions at this level are characterized by advenced training in research techniques and methods and by the performance of work of limited scope and complexity which is a minor phase of broader assignments of other employees.	B.Sc. as above plus 1 year's professional exportence or 1 year of graduate study.	\$6,000 to \$7,650	
1111	Wildlife Biclogist GS - 9	Work is performed under the technical and administrative supervision of a researcher of higher grade.  Immediate objectives are indicated by the supervisor as well as the nature of results to be expected.	B.Sc. + 2 yrs. professional experience in wildlife biology  or  B.So. + 1 year of graduate study plus 1 year of professional experience.	\$7,220 to: \$9,425	Ŷ
IA	Wildlife Biologist GS - 11	Nork is performed under general supervision. Incumbent performs difficult and responsible work assignments of which he must personally plan the details. Projects are expected to result in a publishable addition to acientific knowledge.	B.So. + 3 yrs. professional experience  ahoung ability to work independently  or  Ph.D.  or  B.So. + combination of 3 yrs. experience and graduate training.	\$8,600 to \$11,500.	
¥	Wildlise Biologist GS = 12	Assignments are given in terms of brood general objectives. Incumbents perform difficult end responsible work which involves a substantial emount of initiative end oreativity and has the objective of filling in a critical gap of knowledge.	B.So. + 3 yrs. professional experience abowing that applicant has broad knowledge in his field, can plan and conduct research independently or to conduct very difficult research  or  B.Sc. + 3 yrs. of combined education and experience meeting the above critaria.	\$30,550 to \$13,45	5
vr	Wildlife Biologist GS = 13	Performance of usually difficult and responsible work requiring extended professional training end exparience. Typical assignments may be of oufficient complexity that they must be approached through a series of complete and conceptually related research studies. Those may be carried out by the incumbent or by a team of which he is the leader.	At least 3 yrs. of progressive professional experience or combination of experience & post-greduate training which shows that the applicant has the ability to initiate and nursue original scientific research of considerable importance involving extensive knowledge of several aspects of mildlife biology.	\$113,000 to \$115,665.	44

Class or Grade	Title of (c) Position	Definition of Glass (Mind or Level of Work)	Mizimer (b) Qualifications	Salary		
				Range	No. of (a) Increments	
AII	Wildlife Biologiat GS - 14	1. Requirements as for GS = 13 plus a record of productivity and originality to sufficiently establish the incumbent among the ranking authorities in his specialization of a Responsibility for the administrative management, scientific leedership or technical coordination of a segment of the agamny's research program of sufficient importance that it has warranted the establishment of a separate research organization and laboratory.	At least 5 yrs. of progressive professional experience  The straight of the supplicant has ability of a cry high order in planning, organizing, directing and interpreting vary complex projects and has a comprehensive and authoritative knowledge of wildlife biology.	\$14,170 to \$18,580	9	
VIKI	Wildlife Biologist G8 - 15	Requirements are essentially the same as for GS - 14.	At least 3 yrs. of progressive professionel experience  or or or experience and graduate education which shows that the applicant has ability to plan, direct and conduct highly complex technical and edministrative programs which are regional, national or international in ecope.	\$16,460 to \$21,590	9	

<sup>(</sup>a) Above bese malary - The pattern of granting incremente is as follows: Annually for the first three increments in a class, every two years for the next three and every three years beyond that.

(b) For all positions at the GS - 7 and higher grades applicants must have had at least one year of re wired professional experience at a level of difficulty comparable to the next lower grade in this series.

(a) G3 - 5 and G8 - 7 are trained grades in the Wildlife Biologist (Cameral) category. From G5 - 9 to G5 - 15 positions are categorized as Wildlife Biologist (Occurral), Wildlife Biologist (Emagement) and Wildlife Biologist (Research.) Salary scales in these categories are identical but the training and experience requirements differ somewhat. Data provided in this table expert the Wildlife Biologist (Research) category.