

CURRICULUM VITAE

SEAL, ULYSSES SAMUEL

HOME ADDRESS:

9801 Pillsbury Ave. So.
Bloomington, MN 55420 (612-888-7267)

OFFICE ADDRESS:

CBSG
12101 Johnny Cake Road
Apple Valley, Mn 55124
FAX: 612-432-2757: VOICE: 612-431-9325

DATE OF BIRTH: June 13, 1929 (Mullens, W. VA)

MARITAL STATUS: Widowed, five children.

EDUCATION:

Emory Univ., Atlanta, Ga.	Psychology	B.A.	1949
Emory Univ., Atlanta, Ga.	Psychology	M.A.	1950
Emory Univ., Atlanta, Ga.	Biochemistry	Ph.D.	1957
University of Minnesota	Biochemistry	Post Doctoral	1957-1959

RESEARCH INTERESTS: Small populations and conservation biology. Risk analysis in conservation. Crisis management. Conservation Planning. Facilitation of Planning.

EMPLOYMENT RECORD:

Post-Doctoral, Univ. Minnesota, Minneapolis, MN	1957-59
Research Chemist, VAMC Minneapolis, MN	1959-1990
Professor, Biochemistry, University of Minnesota	1971-1992
Professor, Fisheries & Wildlife, Univ. of Minnesota	1976-1995
Career Research Scientist VAMC Minneapolis, MN	1980-1990
Professor, Ecology and Animal Behavior, U. MN	1986-1995

HONORS:

Chairman, Conservation Breeding Specialist Group	1979-present
Conservation Fellow, New York Zoological Society	1988-
Fellow AAAS	1990
AAZPA Marlin Perkins Award	1991
Chicago Zoological Society: Presidents Award	1992
Zoological Society of Antwerp: Gold Medal	1993
Emory Medal	1993
U.S. Fish and Wildlife Service Great Lakes - Big Rivers Region Silver Eagle Award	1994
Heini Heideger Award of World Zoo Organization	1996

SCIENTIFIC REVIEW AND ADVISORY GROUPS:

Originator, International Species Inventory System	1972-1978
Reviewer, National Institutes of Health	1973-1990
Consultant, IUCN, Survival Service Commission	1976
VACO Medical Research Advisory Committee	1976-1980
Chairman, Research Advisory Committee, VACO	1979-1980
Reviewer, National Science Foundation	1976-1990
California Condor Advisory Panel	1977-1978
Member, R&D Committee VAMC Mpls	1978-1983
Chairman, R&D Committee VAMC Mpls	1981-1983
VACO Career Research Scientist Promotion Comm.	1982-1984
Teacher, World Wildlife Fund, Project Tiger, India	1977,1980
N. R. C., ILAR, Lab. Animal Records Comm.	1977-1979
Cons, NIH, Interag Task Force on Chimpanzees	1978-1986
US-USSR Environmental Agreement, Animal Immobilization Project	1978
Chairman, Conservation Breeding S Group, IUCN/SSC,	1979-
N R C, BARR, Wild Roaming Horse and Burro Com.	1979-1982, 1985-1988
Chairman, Research Advisory Committee, VACO	1979-1981
Species Coordinator: Tiger SSP of AAZPA	1982-1992
O T A., Genetic Diversity Animal Resources W G	1984-1986
Adv. to Species Survival Plan Programs of AAZPA	1982-
Advisor to Black-footed Ferret Recovery Program	1985-1989
VACO Research Service - Planning Council	1988-1990
Member Recovery Team, Red Wolf (USFWS)	1988-
Regional Councilor SSC/IUCN	1988-
SSC Steering Committee SSC/IUCN	1988-
NSF Workshop: Single Species Conservation Biol	1988
Advisor to Florida Panther Recovery Program	1988-
Member Recovery Team, California Sea Otter	1989-
NAS/NRC Committee on Biodiversity	1989

MEMBERSHIPS:

The Endocrine Society
 American Society of Biological Chemists
 American Association for the Advancement of Science
 The Society for the Study of Reproduction
 The Wildlife Disease Association
 The Wildlife Society
 American Association of Zoological Parks and Aquariums

JOURNAL PUBLICATIONS

1. Bevan, W. Jr., Hard, J. S. and Seal, U. S.: Sound-induced seizures in rats fed an amino acid deficient diet. *J. Comp. Physiol. Psychol.* 44:327-333, 1951.
2. Seal, U. S. and Binkley, F.: An inorganic pyrophosphatase of swine brain. *J. Biol. Chem.* 228:193-199, 1957.
3. Seal, U. S. and Gutmann, H. R.: The metabolism of the carcinogen N-(2-fluorenyl) acetamide by liver cell fractions. *J. Biol. Chem.* 234:648-654, 1959.
4. Gutmann, H. R., Seal, U. S. and Irving, C. C.: On the mechanism of protein binding on N-2-fluorenylacetamide. The deacetylation of N-(1-hydroxy-1-fluorenyl) acetamide and the effects of ethionine. *Cancer Res.* 30:1072-1078, 1960.
5. Seal, U. S. and Gutmann, H. R.: On the mechanism of protein binding of the carcinogen, N-2-fluorenylacetamide, by rat liver. Ion exchange chromatography of the soluble fraction. *Arch. Biochem. Biophys.* 95:1-11, 1961.
6. Seal, U. S. and Doe, R. P.: Purification and properties of transcortin, the cortisol-binding globulin, from patients with cancer of the prostate. *Cancer Chemother. Rep.* 16:329-334, 1962.
7. Glenchur, H., Seal, U. S., Zinneman, H. H. and Hall, W. H.: Serum precipitins in human and experimental brucellosis. *J. Lab. Clin. Med.* 59:220-230, 1962.
8. Seal, U. S., and Doe, R. P.: Corticosteroid-binding globulin. I. Isolation from plasma of diethylstilbestrol-treated men. *J. Biol. Chem.* 237:33136-3140, 1962.
9. Zinneman, H. H., Hall, W. H., Hong, L. and Seal, U. S.: Binding of erythromycin, novobiocin, chloramphenicol, chlortetracycline, and nitrofurantoin by serum proteins. *Antimicrob. Agents Chemother.*, p. 637-643, 1962.
10. Glenchur, H., Seal, U. S., Zinneman, H. H. and Hall, W. H.: Antigenicity of some *Brucella melitensis* cell fractions. *J. Bacteriol.* 85:363-368, 1963.
11. Zinneman, H. H., Johnson, J. J. and Seal, U. S.: Effect of short-term therapy with cortisol on the urinary excretion of free amino acids. *J. Clin. Endocrinol. Metab.* 23:996-1000, 1963.
12. Seal, U. S., and Doe, R. P.: Corticosteroid-binding globulin: Species distribution and small-scale purification. *Endocrinology* 73:371-376, 1963.
13. Zinneman, H. H., Seal, U. S. and Hall, W. H.: Some molecular characteristics of blocking antibodies in human brucellosis. Soluble antigen-antibody complexes. *J. Immunol.* 93:993-1000, 1964.
14. Seal, U. S.: Vertebrate distribution of serum ceruloplasmin and sialic acid, and the effects of pregnancy. *Comp. Biochem Physiol.* 13:143-159, 1964.

15. Doe,R.P., Fernandez,R. and Seal,U.S.: Measurement of corticosteroid-binding globulin in man. *J. Clin. Endocrinol. Metab.* 24:1029-1039, 1964.
16. Fernandez,R., Seal,U.S., Mellinger,G.T. and Doe,R.P.: Renal origin of urinary acid phosphatase in normals and in patients with cancer of the prostate. *Invest. Urol.* 2:328-337, 1965.
17. Eist,H. and Seal,U.S.: The permeability of the blood-brain barrier (BBB) and blood cerebrospinal fluid barrier (BLB) to C-14 tagged ribonucleic acid (RNA). *Am. J. Psychiatry* 122:584-586, 1965.
18. Roberts,R.C. and Seal,U.S.: Sedimentation analysis of vertebrate serum proteins. *Comp. Biochem. Physiol.* 15:327-331, 1965.
19. Seal,U.S.: The chemistry of buffers. *Arch. Intern. Med.* 116:658-664, 1965.
20. Doe,R.P. and Seal,U.S.: Acid phosphatase in urology. *Surg. Clin. North Am.* 45:1455-1466, 1965.
21. Seal,U.S. and Doe,R.P.: Purification, some properties and composition of the corticosteroid- and thyroxine-binding globulins from human serum. *Excerpta Medica Internat. Congr. Series* 83:325-328, 1965.
22. Bates,H.A., Pomeroy,B.X., Seal,U.S. and Jay,A.R.: Ornithosis: Experimental immunofluorescent studies. *Avian Dis.* 9:24-30, 1965.
23. Doe,R.P., Mellinger,G.T. and Seal,U.S.: Stabilization and preservation of serum prostatic acid phosphatase activity. *Clin. Chem.* 11:943-950, 1965.
24. Seal,U.S. and Doe,R.P.: Vertebrate distribution of corticosteroid-binding globulin and some endocrine effects on concentration. *Steroids* 5:827-841, 1965.
25. Doe,R.P., Lohrenz,F.N. and Seal,U.S.: Familial decrease in corticosteroid-binding globulin. *Metabolism* 14:940-943, 1965.
26. Musa,B.U.,Doe,R.P. and Seal,U.S.: Purification and properties of human liver B-glucuronidase. *J. Biol. Chem.* 240:2811-2816, 1965.
27. Musa,B.U., Seal,U.S. and Doe,R.P.: Elevation of certain plasma proteins in man following estrogen administration: A dose-response relationship. *J. Clin. Endocrinol. Metab.* 25:1163-1166, 1965.
28. Zinneman,H.H. and Seal,U.S.: Macroglobulins and the SIA water test. *Am. J. Clin. Pathol.* 45:306-312, 1966.
29. Musa,B.U., Seal,U.S. and Doe,R.P.: Unresponsiveness of cat B-glucuronidase to sex hormone stimulation. *Endocrinology* 79:216-217, 1966.
30. Nikolai,T.F. and Seal,U.S.: X-chromosome linked familial decrease in thyroxine-binding globulin activity. *J. Clin. Endocrinol. Metab.* 26:835-841, 1966.

31. Seal,U.S., Mellinger,G.T. and Doe,R.P.: A study of phenyl phosphate and a-naphthyl phosphate as substrates for serum acid phosphatase. *Clin. Chem.* 12:620-631, 1966.
32. Seal,U.S. and Eist,H.: Elevation of serum protein-bound carbohydrates and haptoglobin in schizophrenia. *Clin. Chem.* 12:709-716, 1966.
33. Seal,U.S. and Doe,R.P.: The role of corticosteroid-binding globulin in mammalian pregnancy. *Excerpta Medica Internat. Congr. Series* 132:697-706, 1966.
34. Roberts,R.C., Makey,D.G. and Seal,U.S.: Human transferrin: Molecular weight and sedimentation properties. *J. Biol. Chem.* 241:4907-4913, 1966.
35. Lizarralde,G., Jones,B., Seal,U.S. and Jones,J.E.: Goitrous cretinism with chromosomal aberration and thyroglobulin synthesis defect. *J. Clin. Endocrinol. Metab.* 26:1227-1231, 1966.
36. Seal,U.S., Swaim,W. and Eist,H.: Hyperfibrinogenemia in schizophrenia. *Clin. Chem.* 13:160-162, 1967.
37. Lohrenz,F.N., Seal,U.S. and Doe,R.P.: Adrenal function and serum protein concentrations in a kindred with decreased corticosteroid-binding globulin (CBG). *J. Clin. Endocrinol. Metab.* 27:966-972, 1967.
38. Musa,B.U., Seal,U.S. and Doe,R.P.: Excretion of corticosteroid-binding globulin, thyroxine-binding globulin and total protein in adult males with nephrosis: The effects of sex hormones. *J. Clin. Endocrinol. Metab.* 27:768-774, 1967.
39. Zinneman,H.H., Seal,U.S. and Doe,R.P.: Urinary amino acids in pregnancy, following progesterone and estrogen-progesterone. *J. Clin. Endocrinol. Metab.* 27:397-405, 1967.
40. Doe,R.P., Mellinger,G.T., Swaim,W.R. and Seal,U.S.: Estrogen dosage effects on serum proteins: A longitudinal study. *J. Clin. Endocrinol. Metab.* 27:1081-1086, 1967.
41. Beasley,J.W. and Seal,U.S.: Effects of age and rearing conditions on blood proteins of *Macacca mulatta*. *Clin. Chem.* 14:1107-1111, 1968.
42. Seal,U.S. and Swaim,W.R.: Plasminogen levels in schizophrenia. *Clin. Chem.* 14:368-370, 1968.
43. Seal,U.S., Swaim,W.R. and Erickson,A.W.: Hematology of the Ursidae. *Comp. Biochem. Physiol.* 22:451-460, 1967.
44. Seal,U.S. and Eist,H.: Serum magnesium concentration in schizophrenia and epilepsy. *Clin. Chem.* 13:1021-1023, 1967.
45. Musa,B.U., Doe,R.P. and Seal,U.S.: Serum protein alterations produced in women by synthetic estrogens. *J. Clin. Endocrinol. Metab.* 27:1463-1469, 1967.
46. Nikolai,T.F. and Seal,U.S.: X-chromosome linked inheritance of thyroxine-binding globulin

- deficiency. *J. Clin. Endocrinol. Metab.* 27:1515-1520, 1967.
47. Jones, J.E. and Seal, U.S.: X-chromosome linked inheritance of elevated thyroxine-binding globulin activity. *J. Clin. Endocrinol. Metab.* 27:1521-1528, 1967.
 48. Zinneman, H.H., Levi, D. and Seal, U.S.: On the nature of cryoglobulins. *J. Immunol.* 100:594-603, 1968.
 49. Seal, U.S. and Erickson, A.: Immobilization of Carnivora and other mammals with phencyclidine and promazine. *Fed. Proc.* 28(4):1410-1419, July-Aug 1969.
 50. Lohrenz, F., Doe, R.P. and Seal, U.S.: Idiopathic or genetic elevation of corticosteroid-binding globulin. *J. Clin. Endocrinol. Metab.* 28:1073-1075, 1968.
 51. Doe, R.P., Dickinson, P., Zinneman, H.H. and Seal, U.S.: Elevated nonprotein-bound 17-OHCS (NPC) in pregnancy, during estrogen administration and in carcinoma of the prostate. *J. Clin. Endocrinol. Metab.* 29:757-766, 1969.
 52. Dickinson, P., Doe, R.P., Swaim, W.R., Zinneman, H.H. and Seal, U.S.: Effects of testosterone treatment on plasma proteins and amino acids in men. *J. Clin. Endocrinol. Metab.* 29:837-841, 1969.
 53. Sinha, A.A. and Seal, U.S.: The testicular interstitial cells of lion and three-toed sloth. *Anat. Rec.* 164:35-45, 1969.
 54. Seal, U.S. and Erickson, A.: Hematology, blood chemistry and protein polymorphisms in the white-tailed deer (*Odocoileus virginianus*). *Comp. Biochem. Physiol.* 30:695-713, 1969.
 55. Seal, U.S., Erickson, A.I., Siniff, D. and Cline, D.: Blood chemistry and protein polymorphisms in three Antarctic seal species (*Lobodon carcinophagus*, *Leptonychotes weddelli* and *Mirounga leonina*). In *Antarctic Pinnipedia (ARS 18)*, Amer. Geophys. Union, pp. 181-192, 1971.
 56. Sinha, A.A., Seal, U.S., Erickson, A.W. and Mossman, H.W.: Morphogenesis of the fetal membranes of the white-tailed deer. *Am. J. Anat.* 126:201-241, 1969.
 57. Sinha, A.A., Seal, U.S. and Erickson, A.W.: Ultrastructure of the amnion and amniotic plaques of the white-tailed deer. *Am. J. Anat.* 127:369-396, 1970.
 58. Sinha, A.A., Seal, U.S. and Doe, R.P.: Ultrastructure of the corpus luteum of the white-tailed deer during pregnancy. *Am. J. Anat.* 132:189-206, 1971.
 59. Zinneman, H.H., Seal, U.S. and Doe, R.P.: Plasma and urinary amino acids in Laennec's cirrhosis. *Am. J. Dig. Dis.* 14:118-126, 1969.
 60. Jones, J.E. and Seal, U.S.: Hormonal iodine determinations in disorders of the thyroid and the significance of variations in carrier proteins. *Postgrad. Med. J.* 46:114-120, 1969.

62. Seal,U.S.: Carnivora systematics: A study of hemoglobins. *Comp. Biochem. Physiol.* 31:799-811, 1969.
63. Seal,U.S., Phillips,N.L. and Erickson,A.W.: Carnivora systematics: Immunological relationships of bear serum albumins. *Comp. Biochem. Physiol.* 32:33-48, 1970.
64. Seal,U.S., Erickson,A.W. and Mayo,J.G.: Drug immobilization of the Carnivora. In *International Zoo Yearbook*, 10:157-170, 1970.
65. Makey,D.G. and Seal,U.S.: Serum transferrin of a reptile, the anaconda, *Eunectes marinus*. *Int. J. Biochem.* 1:67-76, 1970.
66. Jones,J., Graham,N.E. and Seal,U.S.: The excretion of urinary free amino acids in Cushing's syndrome. *J. Clin. Endocrinol. Metab.* 29:1559-1563, 1969.
67. Seal,U.S., Anderson,J., Farnsworth,R. and Fletcher,J.: Airborne transport of an uncaged, immobilized, 260 kilo, lowland gorilla. In *International Zoo Yearbook*, 10:134-136, 1970.
68. Moleshok,R.E., Hsu,L.Y.F., Seal,U.S. and Hirschhorn,K.: Partial thyroxine-binding globulin deficiency in a family. *Pediatrics* 44:518-525, 1969.
69. Kronvall,G., Seal,U.S., Finstad,J. and Williams,R.C.: Phylogenetic insight into evolution of mammalian Fc fragment of gamma globulin using staphylococcal protein A. *J. Immunol.* 104:140-147, 1970.
70. Zinneman,H.H. and Seal,U.S.: Double spike in myeloma serum due to retention of light chains. *Arch. Intern. Med.* 124:77-80, 1969.
71. Nusynowitz,M.L. and Seal,U.S.: Thyroxine-binding globulin deficiency in three families and total deficiency in a normal woman. *Am. J. Med.* 50:458-464, 1971.
72. Shane,S.R., Seal,U.S. and Jones,J.E.: X-chromosome linked inheritance of elevated thyroxine-binding globulin in association with goiter. *J. Clin. Endocrinol. Metab.* 32:587-594, 1971.
73. Brown,D.C., Mulhausen,R.O., Andrew,D.F. and Seal,U.S.: Renal function in anesthetized, dormant, and active bears. *Am. J. Physiol.* 220:293-298, 1971.
74. Barbosa,J., Doe,R.P. and Seal,U.S.: Effects of clomiphene on estrogen induced changes in plasma proteins in monkeys. *J. Clin. Endocrinol. Metab.* 31:654-658, 1970.
75. Barbosa,J., Doe,R.P. and Seal,U.S.: Effects of steroids on plasma proteins--Progestational agents. *J. Clin. Endocrinol. Metab.* 32:547-554, 1971.
76. Barbosa,J., Doe,R.P. and Seal,u.S.: Effects of anabolic steroids on hormone-binding proteins, serum cortisol and nonprotein-bound cortisol. *J. Clin. Endocrinol. Metab.* 32:232-240, 1971.
77. Barbosa,J., Doe,R.P. and Seal,U.S.: Effects of anabolic steroids on haptoglobin, orosomuroid, plasminogen, fibrinogen, transferrin, ceruloplasmin, alpha 1-antitrypsin, B-glucuronidase and total

- serum proteins. *J. Clin. Endocrinol. Metab.* 3:388-398, 1971.
78. Zinneman, H.H. and Seal, U.S.: The role of hydrophobic bonding in the thermoprecipitation of a pyroglobulin. *Eur. J. Clin. Biol. Res.* 16:668-672, 1971.
 79. Sinha, A.A., Seal, U.S. and Doe, R.P.: Fine structure of the corpus luteum of the raccoon during pregnancy. *Z. Zellforsch. Mikrosk. Anat.* 117:35-45, 1971.
 80. Frommel, D., Litman, G.W., Chartrand, S.L., Seal, U.S. and Good, R.A.I: Carbohydrate composition in the evolution of the immunoglobulins. *Immunochemistry* 8:573-577, 1971.
 81. Trapp, G.A., Seal, U.S. and Doe, R.P.: A ligand column for the purification of steroid-binding proteins. *Steroids* 18:421-431, 1971.
 82. Barbosa, J., Doe, R.P. and Seal, U.S.: Separation of alpha 1-antitrypsin and orosomucoid by polyacrylamide gel electrophoresis. *Clin. Chem. Acta* 37:105-108, 1972.
 83. Seal, U.S., Sinha, A.A. and Doe, R.P.: Placental iron transfer: Relationship to placental anatomy and phylogeny of mammals. *Am. J. Anat.* 134:263-269, 1972.
 84. Seal, U.S., Ozoga, J.J., Erickson, A.W. and Verme, L.J.: Effects of immobilization on blood analysis of white-tailed deer. *J. Wildl. Mgmt.* 34(4):1034-1040, 1972.
 85. Seal, U.S., Verme, L.J., Ozoga, J.J. and Erickson, A.W.: Nutrition effects on thyroid activity and blood analysis of white-tailed deer. *J. Wildl. Mgmt.* 34(4):1041-1052, 1972.
 86. Zinneman, H.H., Fromke, V.L. and Seal, U.S.: Some biochemical properties of cryomacroglobulin. *Clin Chim Acta* 43:91-99, 1973.
 87. Sinha, A.A., Doe, R.P., Blackard, C. and Seal, U.S.: The in vitro localization of H-3 estradiol in human prostatic carcinoma. An electron microscopic radioautographic study. *Cancer* 31:692-698, 1973.
 88. Barbosa, J., Seal, U.S. and Doe, R.P.: Anti-estrogens and plasma proteins. I. Clomiphene and isomers, ethamoxytriphethyl, U-11,100A and U-11,555A. *J. Clin. Endocrinol. Metab.* 36:666-678, 1973.
 89. Barbosa, J., Seal, U.S. and Doe, R.P.: Anti-estrogens and plasma proteins. II. Contraceptive drugs and gestagens. *J. Clin. Endocrinol. Metab.* 36:706-714, 1973.
 90. Nicol, S., Seal, U.S. and Gottesman, I.I.: Serum from schizophrenic patients: Effect on cellular lactate stimulation and tryptophan uptake. *Arch. Gen. Psychiat.* 29:744-751, 1973.
 91. Blackard, C.E., Doe, R.P. and Seal, U.S.: Serum corticosteroid-binding globulin, cortisol, and nonprotein-bound cortisol levels in patients receiving estrogen for carcinoma of the prostate. *Invest. Urol.* II(3):194-197, 1973.
 92. McMillin, J.M., Seal, U.S., Keenlyne, K.D., Erickson, A.W. and Jones, J.E.: Annual testosterone

- rhythm in the adult white-tailed deer (*Odocoileus virginianus borealis*). *Endocrinology* 94:1034-1040, 1974.
93. LeResche,R.E., Seal,U.S., Karns,P.D. and Franzmann,A.W.: A review of blood chemistry of moose and other Cervidae, with emphasis on nutritional assessment. *Le Naturaliste Canadien* 101(1-2):263-290, 1974.
 94. Bunn,H.F., Seal,U.S., and Scott,A.: The role of 2,3-diphosphoglycerate in mediating mammalian red cell function. *Ann. N.Y. Acad. Sci.* 241:498-512, 1974.
 95. Kronvall,G., Seal,U.S., Svensson,S. and Williams Jr.,R.C.: Phylogenetic aspects of staphylococcal protein A-reactive serum globulins in birds and mammals. *Acta Path. Microbiol. Scand. Sect B*, 82:12-18, 1974.
 96. Blackard,C.E., Byar,D.P., Seal,U.S., Doe,R.P. and the Veterans Administration Cooperative Urological Research Group: Correlation of pre-treatment serum nonprotein-bound cortisol and total 17-hydroxycorticosteroid values with survival in patients with prostatic cancer. *New Engl. J. Med.* 291:751-755, 1974.
 97. Seal,U.S., Mech,L.D. and VanBallenberghe, V.: Wolf pup blood analyses and their ecological and metabolic interpretation. *J. Mammal.* 56(1):64-75, 1975.
 98. Plotka,E.C., Seal,U.S., Schobert,E.E. and Schmoller,G.C.: Serum progesterone and estrogens in elephants. *Endocrinology* 97:485-487, 1975.
 99. Blackard,C.E., Byar,D.P., Seal,U.S., Doe,R.P. and the Veterans Administration Cooperative Urological Research Group: Correlation of pre-treatment serum 17-hydroxycorticosteroid values with survival in patients with prostatic cancer. *J. Urol.* 113:517-520, 1975.
 100. Seal,U.S., Doe,R.P., Byar,D.P., Corle,D.K. and the Veterans Administration Cooperative Urological Research Group: Response of plasma fibrinogen and plasminogen to hormone treatment and the relation of pretreatment values to mortality in patients with prostatic cancer. *Cancer* 38:1108-1117, 1976.
 101. Seal,U.S., Doe,R.P., Byar,D.P., Corle,D.K. and the Veterans Administration Cooperative Urological Research Group: Response of serum cholesterol and triglycerides to hormone treatment and the relation of pretreatment values to mortality in patients with prostatic cancer. *Cancer* 38:1095-1107, 1976.
 102. Seal,U.S., Barton,R., Mather,L., Olberding,K., Plotka,E.D. and Gray,C.W.: Hormonal contraception in captive female lions (*Panthera leo*). *J. Zoo Anim. Med.* 7(4):12-20, 1976.
 103. Makey,D.G. and Seal,U.S.: The detection of four molecular forms of human transferrin during the iron binding process. *Biochem. Biophys. Acta* 453:250-256, 1976.
 104. Seal,U.S., Makey,D.G. and Murtfeldt,L.E.: ISIS: An animal census system. In: *International Zoo Yearbook*, 16:180-184, 1976.

105. Smeller, J.M., Bush, M. and Seal, U.S.: Observations on immobilization of Pere David's deer. *J. Am. Vet. Med. Assoc.* 169(9):890-893, 1976.
106. Wilson, M.J., McMillin, J.M., Seal, U.S. and Ahmed, K.: Circadian variation in plasma testosterone in the adult male rat with a late morning acrophase. *Experientia* 32:944-945, 1976.
107. Seal, U.S. and Schobert, E.E.: Baseline laboratory data for the Grant's gazelle (*Gazella granti*). *J. Zoo Anim. Med.* 7(1):7-10, March 1976.
108. Seal, U.S., Barton, R., Mather, L. and Gray, C.W.: Baseline laboratory data for the white rhinoceros (*Ceratotherium simum simum*). *J. Zoo Anim. Med.* 7(1):11-16, March 1976.
109. McMillin, J.M., Seal, U.S., Rogers, L. and Erickson, A.W.: Annual testosterone rhythm in the black bear (*Ursus americanus*). *Biol. Reprod.* 15:163-167, 1976.
110. Seal, U.S. and Schobert, E.E.: Baseline laboratory data for the blesbok (*Damaliscus dorcas phillipsi*). *J. Zoo Anim. Med.* 7(2):18-22, June 1976.
111. Seal, U.S., Makey, D.G. and Murtfeldt, L.: ISIS--A collecting and sharing of captive animal statistics. *J. Zoo Anim. Med.* 7(1):4-6, March 1976.
112. Plotka, E.D., Seal, U.S., Verme, L.J. and Ozoga, J.J.: Reproductive steroids in the white-tailed deer (*Odocoileus virginianus borealis*). II. Progesterone and estrogen levels in peripheral plasma during the breeding season and pregnancy. *Biol. Reprod.* 17:78-83, 1977.
113. Seal, U.S., Schobert, E.E. and Gray, C.W.: Baseline laboratory data for the Grant's zebra (*Equus burchelli boehmi*). *J. Zoo Anim. Med.* 8(1):7-16, 1977.
114. Sinha, A.A., Erickson, A.W. and Seal, U.S.: Fine structure of Leydig cells in crabeater, leopard and Ross seals. *J. Reprod. Fertil.* 49:51-54, 1977.
115. Plotka, E.D., Seal, U.S., Schmoller, G.C., Karns, P.D. and Keenlyne, K.D.: Reproductive steroids in the white-tailed deer (*Odocoileus virginianus borealis*). I. Seasonal changes in the female. *J. Biol. Reprod.* 16:340-343, 1977.
116. McMillin, J.M., Seal, U.S. and Doe, R.P.: Effect of oral estramustine phosphate on pituitary, gonadal and adrenal function in the green monkey (*Cercopithecus aethiops sabeus*). *Invest. Urol.* 15:151-154, 1977.
117. McMillin, J.M., Seal, U.S. and Theologides, A.: Prolactin dynamics following trans-sphenoidal hypophysectomy for metastatic carcinoma of the breast. *Cancer* 39:2254-2257, 1977.
118. Sinha, A.A., Erickson, A.W. and Seal, U.S.: Fine structure of seminiferous tubules in antarctic seals. *Cell & Tiss. Res.* 178:183-188, 1977.
119. Sinha, A.A., Blackard, C.E. and Seal, U.S.: A critical analysis of tumor morphology and hormone treatments in the untreated and estrogen-treated responsive and refractory human prostatic carcinoma. *Cancer* 40:2836- 1977.

120. Seal,U.S. and Hoskinson,R.: Metabolic indicators of habitat condition and capture stress in pronghorns. *J. Wildl. Manage.* 42(4):755-763, 1978.
121. Seal,U.S., Doe,R.P., Byar,D.P., Corle,D.K. and the Veterans Administration Cooperative Urological Research Group: Response of serum haptoglobin to hormone treatment and the relation of pretreatment values to mortality in patients with prostatic cancer. *Cancer* 42:1720-1729, 1978.
122. Seal,U.S., Verme,L.J. and Ozoga,J.J.: Dietary protein and energy effects on deer fawn metabolic patterns. *J. Wildl. Manag.* 42(4):776-790, 1978.
123. Seal,U.S., Nelson,M., Mech,L.D. and Hoskinson,R.: Metabolic indicators of habitat differences in four Minnesota deer populations. *J. Wildl. Manag.* 42(4):746-754, 1978.
124. Bush,M., Custer,R., Smeller,J., Bush,L.M., Seal,U.S. and Barton,R.: The acid-base status of lions, *Panthera leo*, immobilized with four drug combinations. *J. Wildl. Dis.* 14(1):102-109, 1978.
125. Smeller,J.M., Bush,M. and Seal,U.S.: Blood volume measurements in gopher snakes using autologous chromium-51-labeled red blood cells. *Am. J. Vet. Res.* 39(2):355-356, 1978.
126. Seal,U.S. and the Uro-Oncology Research Group: FSH and LH elevation following radiation for treatment of cancer of the prostate. *Invest. Urol.* 16(4):278-280, 1979.
127. Makey,D.G., Corle,D.K., Byar,D.P. and Seal,U.S.: A computerized reference laboratory. *Med. Instrum.* 13(1):46-50, 1979.
128. Barbosa,J., Seal,U.S. and Doe,R.P.: Effects of (Bu-2)-cAMP and clomiphene on serum concentrations of several proteins and hormones in gonadectomized monkeys. *Endocrinol. Exper.* 13:19-27, 1979.
129. Seal,U.S., Plotka,E.D., Packard,J.M. and Mech,L.D.: Endocrine correlates of reproduction in the wolf. I. Serum progesterone, estradiol and LH during the estrous cycle. *Biol. Reprod.* 21(5):1957-1066, 1979.

130. McMillin, J.M., Seal, U.S. and Karns, P.D.: Hormonal correlates of hypophagia in white-tailed deer (*Odocoileus virginianus borealis*). *Fed. Proc.* 39:2964-2968, 1980.
131. Schulte, B.A., Parsons, J.A., Seal, U.S., Plotka, E.D., Verme, L.J. and Ozoga, J.J.: Heterologous radioimmunoassay for deer prolactin. *J. Gen. Comp. Endocrinol.* 40:59-68, 1980.
132. Plotka, E.D., Seal, U.S., Verme, L.J. and Ozoga, J.J.: Reproductive steroids in deer. III. Lutenizing hormone, estradiol and progesterone around estrus. *Biol. Reprod.* 22:576-582, 1980.
133. Mautz, W.W., Seal, U.S. and Boardman, C.B.: Blood serum analyses of chemically and physically restrained white-tailed deer. *J. Wildl. Manag.* 44:343-351, 1980.
134. Schulte, B.A., Seal, U.S., Plotka, E.D., Verme, L.J., Ozoga, J.J. and Parsons, J.A.: Seasonal changes in prolactin and growth hormone cells in the hypophyses of white-tailed deer (*Odocoileus virginianus borealis*) studied by light microscopic immunocytochemistry and radioimmunoassay. *Am. J. Anat.* 159:369-377, 1980.
135. Schulte, B.A., Seal, U.S., Plotka, E.D., Letellier, M.A., Verme, L.J., Ozoga, J.J. and Parsons, J.A.: The effect of pinealectomy on seasonal changes in prolactin secretion in the white-tailed deer (*Odocoileus virginianus borealis*). *Endocrinology* 108(1):173-178, 1981.
136. Schulte, B.A., Seal, U.S., Plotka, E.D., Verme, L.J., Ozoga, J.J. and Parsons, J.A. 1981. Characterization of seasonal changes in prolactin and growth hormone cells in the hypophyses of the white-tailed deer (*Odocoileus virginianus borealis*) by ultrastructural and immunocytochemical techniques. *Am. J. Anat.* 160:277-284.
137. Tarquini, B., Halberg, F., Seal, U.S., Benvenuti, M., and Cagnoni, M. 1981. Circadian aspects of serum prolactin and TSH lowering by bromocryptine in patients with prostatic hypertrophy. *The Prostate.* 2:269-279.
138. Peterson, E., Letellier, M., Parsons, J., Plotka, E., Mech, L., and Seal, U.S. 1981. Olfactory pedunculotomy induced anosmia in the wolf (*Canis lupus*). *Physiol. & Behav.* 27:543-546.
139. Halberg, F., Tarquini, B., Lakatua, D., Halberg, E., Seal, U.S., Haus, E., and Cagnoni, M. 1981. Circadian and circannual plasma GSH rhythms, human mammary and prostatic cancer and steps toward chrono-oncprevention. *Lab. J. Res. Lab. Med.* VIII 3:251-257.
140. Harlow, H., and Seal, U.S. 1981. Changes in hematology and metabolites in the serum and urine of the badger, *Taxidea taxus*, during food deprivation. *Can. J. Biol.* 59:2123-2128.
141. Plotka, E.D., Seal, U.S., Verme, L.J., and Ozoga, J.J.: Reproductive steroids in white-tailed deer. IV. Origin of progesterone during pregnancy. *Biol. Reprod.* 26: 258-262, 1982.
142. Plotka, E.D., Seal, U.S., Verme, L.J., and Ozoga, J.J.: The adrenal gland in white-tailed deer: A significant source of progesterone. *J. Wildl. Manag.* 47:38-44, 1983.

143. Seal,U.S., Verme,L.J., and Ozoga,J.J.: Metabolic and endocrine responses of deer to increasing population density. *J. Wildl. Manage.* 47:451-462, 1983.
144. Seal,U.S. and Mech,L.D. 1983. Seasonal metabolic patterns in adult captive wolves. *J. Wildl. Manage.* 47:704-715.
145. Seal,U.S. and Plotka,E.D. 1983. Age specific pregnancy rates in feral horse. *J. Wildl. Manage.* 47:422-429.
146. Morley,J., Levine,A.L., Plotka,E.D., and Seal,U.S. 1983. The effect of naloxone on feeding and spontaneous locomotion in the wolf. *Physiol. & Behavior.* 30:331-334.
147. Mech,L.D., Chapman,R.C., Cochran,W.W., Simmons,L., and Seal,U.S. 1984. Radio-triggered anesthetic-dart collar for recapturing large mammals. *Wildl. Soc. Bull.* 12:69-74.
148. 147. Seal, U.S. and Foose, T. 1984. Siberian tiger species survival plan: A strategy for survival. *Bull. Minn Acad. Sci.* 49:3-9.
149. Raymer,J., Wiesler,D., Novotony,M., Asa,C., Seal,U.S., and Mech,L.D. 1984. Volatile urinary constituents of wolf (*Canis lupus*) urine as related to gender and season. *Experientia.* 40:707-709.
150. Plotka,E.D., Seal,U.S., Letellier,M.A., Verme,L.J. and Ozoga,J.J. 1984. Early effects of pinealectomy on LH and testosterone secretion in white-tailed deer. *J. Endocr.* 103:1-7.
151. Mech, L.D., Seal, U.S., and Arthur, S.M. 1984. Recuperation of a severely debilitated wolf. *J. Wildl. Dis.* 20:166-168.
152. Billington, C.J., Morley, J.E., Levine, A.S., Wright, F., and Seal, U.S. 1985. Naloxone induced suppression of feeding in tigers. *Physiol Behav.* 34:641-643.
153. 152. Seal, U.S., Schmitt, S.M., and Peterson, R.O. 1985. Carfentanil and xylazine for immobilization of moose on Isle Royale. *J. Wildl. Dis.* 21:48-51.
154. Nizielski, S.E., Morley, J.E., Gosnell, B.A., Seal, U.S., and Levine, A.S. 1985. Opioid modulation of ingestive behaviors in woodchucks and racoons. *Physiol Behav.* 34:171-176.
155. Raymer,J., Wiesler,D., Novotony,M., Asa,C., Seal,U.S., and Mech,L.D. 1985. Sex hormone effects on wolf (*Canis lupus*) urinary volatile constituents. *J. Chem. Ecol.* 11:593-608.
156. Asa, C.S., Peterson, E.K., Seal, U.S., and Mech, L.D. 1985. Deposition of anal sac secretions by captive wolves (*Canis lupus*). *J. Mammal.* 66:89-93.
157. Seal,U.S., Smith,J.L.D., Plotka,E.D., Reindl,N., Taylor,R., Wright,F., and Seal,M.F. 1985. Immunoreactive luteinizing hormone, estradiol, progesterone, testosterone, and androstenedione levels during the breeding season and anestrus in Siberian tigers. *Biol. Reprod.* 32:361-368.
158. Packard,J., Seal,U.S., and Mech,L.D. 1985. Causes of reproductive failure in two families of wolves (*Canis lupus*). *Zeitschrift fur Tierpsychology.* 68:24-40.

159. Mech, L.D., G.D. Del Giudice, P.D. Karns, and U.S. Seal. 1985. Yohimbine hydrochloride as an antagonist to xylazine hydrochloride-ketamine hydrochloride immobilization of white-tailed deer. *J. Wildl. Dis.* 21:399-404.
160. Plotka, E.D., J.E. Morley, A.S. Levine, and U.S. Seal. 1985. The effect of opiate antagonists on feeding and spontaneous locomotion in white-tailed deer. *Physiol Behav.* 35: 965-969.
161. Raymer, J., D. Wiesler, M. Novotony, C. Asa, U.S. Seal, and L.D. Mech. 1985. Chemical investigations of wolf (*Canis lupus*) anal sac secretion both in and out of the breeding season. *J. Chem. Ecol.* 11:593-608.
162. Seal, U.S., D.B. Siniff, J.R. Tester, and T.D. Williams. 1985. Chemical immobilization and blood analysis of feral horses (*Equus caballus*). *J. Wildl. Dis.* 21:411-416.
163. Asa, C.S., L.D. Mech, and U.S. Seal. 1985. The use of urine, feces, and anal-gland secretions in scent-marking by a captive wolf (*Canis lupus*) pack. *Anim. Behav.* 33:1034-1036.
164. Herbst, L., C. Packer, and U.S. Seal. 1985. Immobilization of free-ranging African lions (*Panthera leo*) with a combination of xylazine hydrochloride and ketamine hydrochloride. *J. Wildl. Dis.* 21:395-398.
165. Mech, L.D., S.M. Goyal, C.N. Bota, and U.S. Seal. 1985. Canine parvovirus infection in wolves (*Canis lupus*) from Minnesota. *J. Wildl. Dis.* 21:104-206.
166. Kreeger, T.J., G.D. Del Giudice, U.S. Seal, and P.D. Karns. 1986. Immobilization of white-tailed deer with xylazine hydrochloride and ketamine hydrochloride and antagonism by tolazoline hydrochloride. *J. Wildl. Dis.* 22:407-412.
167. Kreeger, T.J., G.D. Del Giudice, U. S. Seal, and P.D. Karns. 1986. Methods of urine collection for male white-tailed deer. *J. Wildl. Dis.* 22:442-445.
168. Kreeger, T.J., G.D. Del Giudice, and U. S. Seal. 1986. Urethral diverticulum prevents catheterization in male white-tailed deer. *J. Wildl. Dis.* 22:131-133.
169. Templeton, A.R., H. Hemmer, G. Mace, U.S. Seal, W. Shields, and D. Woodruff. 1986. Local adaptation, coadaptation, and population boundaries. *Zoo Biol.* 5:115-126.
170. Morley, J.E., A.S. Levine, H. Hertel, T. Tandeski, and U.S. Seal. 1986. The effect of peripheral administration of peptides on food intake, glucose and insulin in wolf pups. *Peptides*, 7:969-972.
171. Kreeger, T.J. and U.S. Seal. 1986. Immobilization of coyotes with xylazine hydrochloride - ketamine hydrochloride and antagonism by yohimbine hydrochloride. *J. Wildl. Dis.* 22:604-606.
172. Kreeger, T.J. and U.S. Seal. 1986. Failure of yohimbine hydrochloride to antagonize ketamine hydrochloride immobilization of gray wolves. *J. Wildl. Dis.* 22:600-603.

173. Kreeger, T.J., U.S. Seal, and A.M. Faggella. 1986. Xylazine hydrochloride - ketamine hydrochloride immobilization of wolves and its antagonism by tolazoline hydrochloride. *J. Wildl. Dis.* 22:397-402.
174. Goyal, S.M., L.D. Mech, R.A. Rademacher, M.A. Khan, and U.S. Seal. 1986. Antibodies against canine parvovirus in wolves of Minnesota: A serologic study from 1975 through 1985. *J.A.V.M.A.* 189:1092-1094.
175. Seal, U.S. 1986. Goals of captive propagation programmes for the conservation of endangered species. *Int. Zoo. Yrbk*, 24/25:174-179.
176. Nizielski, S.E., J.E. Morley, T.J. Bartness, U.S. Seal, and A.S. Levine. 1986. Effects of manipulations of glucoregulation on feeding in the ground squirrel. *Physiol. Behav.* 36:53-58.
177. Seal, U.S., D.L. Armstrong, and L.G. Simmons. 1987. Yohimbine reversal of ketamine hydrochloride - xylazine hydrochloride immobilization of Bengal tigers and effects on hematology and serum chemistries. *J. Wildl. Dis.* 23:296-300.
178. Post, G.S., H.C. Hensleigh, A.P. Byers, U.S. Seal, T.J. Kreeger, N.J. Reindl, and R.L. Tilson. 1987. Penetration of zona-free hamster ova by Siberian tiger sperm. *Zoo Biol.* 6:183-187.
179. Kreeger, T.J., A.M. Fagella, U.S. Seal, L.D. Mech, M. Callahan, and B. Hall. 1987. Cardiovascular and behavioral response of gray wolves to ketamine hydrochloride-xylazine hydrochloride immobilization and antagonism by yohimbine hydrochloride. *J. Wildl. Dis.* 23:463-470.
180. Plotka, E.D., U. S. Seal, T.C. Eagle, C.S. Asa, J.R. Tester, and D.B. Siniff. 1987. Rapid reversible immobilization of feral stallions using etorphine hydrochloride, xylazine hydrochloride and atropine sulfate. *J. Wildl. Dis.* 23:471-478.
181. Asa, C.S., Seal, U.S., Mech, L.D., Lettelier, M., and Plotka, E.D. 1987. The effect of anosmia on reproduction in male and female wolves (*Canis lupus*). *Behav. Neural Biol.* 46:272-84.
182. Asa, C.S., Seal, U.S., Lettelier, M., and Plotka, E.D. 1987. Pinealectomy or superior cervical ganglionectomy do not alter reproduction in the wolf (*Canis lupus*). *Biol. Repro.* 37:14-21.
183. DelGiudice, G.D., U.S. Seal, and L.D. Mech. 1987. Effects of feeding and fasting on wolf blood and urine characteristics. *J. Wildl. Manage.* 51:1-10.
184. Mech, L.D., U.S. Seal, and G.D. DelGiudice. 1987. Use of urine in the snow to indicate condition of wolves. *J. Wildl. Manage.* 51:10-16.
185. DelGiudice, G.D., L.D. Mech, U.S. Seal, and P.D. Karns. 1987. Effects of winter fasting and refeeding on white-tailed deer blood profiles. *J. Wildl. Manage.* 51:865-873.
186. DelGiudice, G.D., L.D. Mech, U.S. Seal, and P.D. Karns. 1987. Winter fasting and refeeding effects on urine characteristics in white-tailed deer. *J. Wildl. Manage.* 51:860-864.

187. DelGiudice, G.D., L.D. Mech, U.S. Seal, and P.D. Karns. 1987. Urinary pH – a field measurement of metabolic status of white-tailed deer. *Wildl. Soc. Bull.* In press.
188. DelGiudice, G.D., U.S. Seal, and L.D. Mech. 1988. Response of urinary hydroxyproline to dietary protein and fasting in white-tailed deer. *J. Wildl. Dis.* 24:75-79.
189. DelGiudice, G.D., and U.S. Seal. 1988. Classification of winter undernutrition in white-tailed deer via serum and urinary urea nitrogen. *Wildlife Soc. Bull.* 16:27-32.
190. DelGiudice, G.D., L.D. Mech, and U.S. Seal. 1988. Chemical analyses of deer bladder urine and urine collected from snow. *Wildl. Soc. Bull.* 16:324-326.
191. Mech, L.D. and U.S. Seal. 1987. Premature reproductive activity in wild wolves. *J. Mammal.* 68:871-873.
192. Plotka, E.D., U.S. Seal, F.R. Zarembka, L.G. Simmons, A. Teere, L.G. Phillips, K. C. Hinshaw, and D.G. Wood. 1988. Ovarian function in the elephant: Luteinizing hormone and progesterone cycles in African and Asian elephants. *Biol. Reprod.* 38:309-314.
193. Kreeger, T.J., E.D. Plotka, and U.S. Seal. 1987. Immobilization of white-tailed deer by etorphine and xylazine and its antagonism by nalmefene and yohimbine. *J. Wildl. Dis.* 23:619-624.
194. Byers, A.P., A.G. Hunter, H.C. Hensleigh, T.J. Kreeger, G. Binczik, N.J. Reindl, U.S. Seal, and R.L. Tilson. 1987. In vitro capacitation of Siberian tiger spermatozoa. *Zoo Biol.* 6:297-304.
195. DelGiudice, G.D., U.S. Seal, and T.J. Kreeger. 1988. Xylazine and ketamine induced glycosuria in white-tailed deer. *J. Wildl. Dis.* 24:317-21.
196. Plotka, E.D., U.S. Seal, D.N. Vereas, A.L. Koller, D.B. Siniff, J.R. Tester, and U.S. Seal. 1988. Effects of hormone implants on estrus and ovulation in feral mares. *J. Wildl. Dis.* 24:507-514.
197. Kaye, S.A., A.R. Folsom, L.H. Kushi, R.J. Prineas, U.S. Seal, and R.B. Wallace. 1988. Relationship of body fat distribution to self-reported prevalence of diabetes mellitus and fasting concentrations of glucose and insulin in postmenopausal women.
198. Kreeger, T.J., R.E. Mandsager, U.S. Seal, M. Callahan, and M. Beckel. 1988. Physiological response of gray wolves to butorphanol-xylazine immobilization and antagonism by naloxone and yohimbine. *J. Wildl. Dis.* 25:89-94.
199. Kreeger, T.J., U.S. Seal, M. Callahan, and M. Beckel. 1988. The use of xylazine sedation with yohimbine antagonism in the management of captive gray wolves. *J. Wildl. Dis.* 24:688-90.

200. DelGiudice, G.D., L.D. Mech, and U.S. Seal. 1989. Physiological assessment of deer populations by analysis of urine in snow. *J. Wildl. Manage.* 53:284-291.
201. Plotka, E.D. and U. S. Seal. 1989. Fertility control in female white-tailed deer. *J. Wildl. Dis.* 25:643-646.
202. DelGiudice, G.D., P.R. Krausman, E.S. Bellantoni, M.C. Wallace, R.C. Etcherger, and U. S. Seal. 1990. Blood and urinary profiles of free-ranging desert mule deer in Arizona. *J. Wildl. Dis.* 26:83-89.
203. DelGiudice, G.D., P.R. Krausman, E.S. Bellantoni, R.C. Etcherger, and U. S. Seal. 1989. Reversal by tolazoline hydrochloride of xylazine hydrochloride – ketamine hydrochloride immobilizations in free-ranging desert mule deer. *J. Wildl. Dis.* 25:347-352.
204. Asa, C.S., L.D. Mech, U.S. Seal, and E.D. Plotka. 1989. The influence of social and endocrine factors on scent-marking by wolves (*Canis lupus*). *Animal Behavior*
205. Kreeger, T.J., V.B. Kuechle, L.D. Mech, J.R. Tester, and U.S. Seal. 1989. Physiological monitoring of gray wolves (*Canis lupus*) by radio telemetry. *J. Mammal.* In press.
206. Kreeger, T.J., D. Monson, V.B. Kuechle, U.S. Seal, and J.R. Tester. 1989. Monitoring heart rate and body temperature in red foxes (*Vulpes vulpes*). *Can. J. Zool.* 67:2455-2458.
207. White, P.J., T.J. Kreeger, J.R. Tester, and U.S. Seal. 1989. Anal-sac secretions deposited with feces by captive red foxes (*Vulpes vulpes*). *J. Mamm.*, 70:814.816.
208. Kreeger, T.J., U.S. Seal, and J.R. Tester. 1990. Chemical immobilization of red foxes (*Vulpes vulpes*). *J. Wildl. Dis.* 26:95-98.
209. Kreeger, T.J., P.J. White, U.S. Seal, and J.R. Tester. 1990. Pathological response of red foxes to foothold traps. *J. Wildl. Manage.* 54:147-160.
210. DelGiudice, G.D., R.O. Peterson, and U.S. Seal. 1990. Differences in urinary chemistry profiles of moose on Isle Royal during winter. Submitted.
211. Kreeger, T.J., U.S. Seal, E.D. Plotka, and C.S. Asa. 1990. Characterization of prolactin secretion in gray wolves (*Canis lupus*). Submitted.
212. Asa, C.S., L.D. Mech, U.S. Seal, and E.D., Plotka. 1990. The influence of social and endocrine factors on urine-marking by captive wolves (*Canis lupus*). *Horm. Behav.* 24:497-509.
213. Miller, A.M., L.A. Johnston, U.S. Seal, D.L. Armstrong, R.L. Tilson, P. Wolf, C. Petrini, L.G. Simmons, T. Gross, and D.E. Wildt. 1990. Hormonal induction of ovarian activity and in vitro fertilization in the tiger (*Panthera tigris*). Submitted.

214. DelGiudice, G.D., L.D. Mech, and U.S. Seal. 1989. Browse diversity and physiological status of white-tailed deer during winter. *Trans. 54th N.A. Wildl. & Nat. Res. Conf.* 134-145.
215. Kreeger, T.J., U.S. Seal, M. Callahan, and M. Beckel. 1990. Physiological and behavioral responses of gray wolves (*Canis lupus*) to immobilization with tiletamine and zolazepam. *J. Wildl. Dis.* 26:90-94.
216. DelGiudice, G.D., K.E. Kunkel, L.D. Mech, and U.S. Seal. 1990. Minimizing capture-related stress on white-tailed deer with a capture collar. *J. Wildl. Manage.* 54:
217. Kreeger, T.J., U.S. Seal, M. Callahan, and M. Beckel. 1990. Use of ivermectin in captive gray wolves for the treatment and prevention of dirofilariasis and ancylostomiasis. *J. Zoo Wildl An. Med.* 21:310-317.
218. Kreeger, T.J., U.S. Seal, E.D. Plotka, and C.S. Asa. 1991. Characterization of prolactin secretion in gray wolves.
219. Kreeger, T.J., U.S. Seal, and E.D. Plotka. 1991. Hypothalamic - pituitary - adrenocortical function in gray wolves.
220. White, P.J., T.J. Kreeger, U.S. Seal, and J.R. Tester. 1990. Pathological responses of red foxes to box traps. *J. Wildl. Manage.*
221. Kreeger, T.J. and U.S. Seal. 1990. Immobilization of captive gray wolves (*Canis lupus*) with sufentanil. *J. Wildl. Dis.* 26:561-563.
222. Kreeger, T.J., U.S. Seal, M. Callahan, and M. Beckel. 1990. Physiological responses of red foxes (*Vulpes vulpes*) to surgery. *J. Wildl. Dis.*
223. DelGiudice, G.D., F. Singer, G. Bowser, and U.S. Seal. 1990. Physiological assessment of winter undernutrition in elk in Yellowstone National Park.
224. DelGiudice, G.D., L.L. Rogers, and U.S. Seal. 1991. Weights and hematology of wild black bears during hibernation. *J. Wildl. Dis.* 27:637-642.
225. DelGiudice, G.D., L.D. Mech, and U.S. Seal. 1990. Effects of winter undernutrition on body composition and physiological profiles of white-tailed deer. *J. Wildl. Manage.*
226. DelGiudice, G.D., L.S Duquette, U.S. Seal, and L.D. Mech. 1991. Validation of estimating food intake in gray wolves by Na²² turnover. *J. Wildl. Manage.* 55:59-71.
227. DelGiudice, G.D., L.D. Mech, and U.S. Seal. 1991. Gray wolf density and its association with weights and hematology of pups from 1970 to 1986. *J. Wildl. Dis.* 27:630-636.

228. DelGiudice, G.D., R. O. Peterson, and U.S. Seal. 1991. Differences in urinary chemistry profiles of moose on Isle Royal during winter. *J. Wildl. Dis.* 27:407-416.
229. DelGiudice, G.D., U.S. Seal, and L. D. Mech. 1991. Indicators of severe undernutrition in urine of free-ranging elk during winter. *Wildl. Soc. Bull.* 19:106-110.
230. Wagner, F.H., et al. 1982. Wild and free-roaming horses and burros final report. National Academy Press, Washington. D.C., USA.
231. Wagner, F.H. and U.S. Seal. 1992. Values, problems, and methodologies in managing overabundant wildlife populations: an overview. in *Wildlife 2001*, ed D. McCullough. In press.
232. Kreeger, T.J., A.S. Levine, U.S. Seal, M. Callahan, and M. Bechel. 1992. Diazepam-induced feeding in captive gray wolves (*Canis lupus*).
233. Seal, U.S. 1991. Fertility control as a tool for regulating captive and free-ranging wildlife populations. *J. Wildl. Dis.* 22:1-5.
234. Seal, U.S. 1991. Life after extinction. *Symp. Zool. Soc. Lond.* 62:39-55.
235. White, P. J.; T. J. Kreeger; U. S. Seal and J. R. Tester. 1991. Pathological responses of red foxes to capture in box traps. *J. Wildl. Manage.*; 55(1):75-80. WR 223.
236. Wayne, R. K.; N. Lehman; D. Girman; P. J. P. Gogan; D. A. Gilbert; K. Hansen; R. O. Peterson; U. S. Seal; A. Eisenhauer; L. D. Mech and R. J. Krumenaker. 1991. CONSERVATION GENETICS OF THE ENDANGERED ISLE ROYALE GRAY WOLF. *Conserv. Biol.*; 5(1):41-51. In English with Spanish summ. WR 224.
237. DelGiudice, G.D., L.L. Rogers, A.W. Allen and U.S. Seal. 1991. WEIGHTS AND HEMATOLOGY OF WILD BLACK BEARS DURING HIBERNATION. *J. Wildl. Dis.*; 27(4):637-642. WR 227.
238. Kreeger, T.J.; U.S. Seal; Y. Cohen; E.D. Plotka and C.S. Asa. 1991. CHARACTERIZATION OF PROLACTIN SECRETION IN GRAY WOLVES (*CANIS LUPUS*). *Can. J. Zool.*; 69(5):1366-1374. In English with French summ. WR 226.
239. DelGiudice, G.D.; U.S. Seal and L.D. Mech. 1992. NUTRITIONAL INDICES OF WILD MAMMALS: A NEW DIRECTION FOR WILDLIFE AND HABITAT MANAGEMENT SYSTEMS. *Trans. Congr. Int. Union Game Biol.*; 18(2):541-546. 1992. WR 243.
240. DelGiudice, Glenn D.; Jeff Stone; L. David Mech and Ulysses S. Seal SAMPLING CONSIDERATIONS INVOLVED WITH MONITORING THE NUTRITIONAL STATUS OF GRAY WOLVES *CANIS LUPUS* VIA BIOCHEMICAL ANALYSIS OF SNOW-URINE. *Trans. Congr. Int. Union Game Biol.*; 18(2):35-38. 1992. WR 243 In: *Global Trends in Wildlife Management*, B. Bobek, K. Perzanowski and W.L. Regelin (Ed.), 18th IUGB Congress, Jagiellonian Univ., Krakow, Poland, August 1987
241. **Seal, Ulysses S.** THE IMPACT OF INFECTIOUS DISEASES ON THE REINTRODUCTION

- AND TRANSLOCATION OF THREATENED SPECIES. AAZV (Am. Assoc. Zoo Vet.) AAWV (Am. Assoc. Wildl. Vet.) Annu. Proc.; p. 1. 1992. WR 236
242. DelGiudice, Glenn D.; L. David Mech; Kyran E. Kunkel; Eric M. Gese and Ulysses S. Seal SEASONAL PATTERNS OF WEIGHT, HEMATOLOGY, AND SERUM CHARACTERISTICS OF FREE-RANGING FEMALE WHITE-TAILED DEER IN MINNESOTA. Can. J. Zool.; 70(5):974-983. 1992. In English with French summ. WR 232
243. Donoghue, A. M.; L. A. Johnston; U. S. Seal; D. L. Armstrong; L. G. Simmons; T. Gross; R. L. Tilson and D. E. Wildt ABILITY OF THAWED TIGER (PANTHERA TIGRIS) SPERMATOZOA TO FERTILIZE CONSPECIFIC EGGS AND BIND AND PENETRATE DOMESTIC CAT EGGS IN VITRO. J. Reprod. Fertil.; 96(2):555-564. 1992. WR 234
244. Wagner, Frederic H. and Ulysses S. Seal VALUES, PROBLEMS, AND METHODOLOGIES IN MANAGING OVERABUNDANT WILDLIFE POPULATIONS: AN OVERVIEW. Wildlife 2001: Populations. Dale R. McCullough and Reginald H. Barrett, editors.; p. 279-293. 1992. WR 239
245. **Seal, Ulysses S.** CAPTIVE BREEDING SPECIALIST GROUP. Species (Newsl. Species Survival Comm.); No. 19. p. 72. 1992. WR 237
246. Kreeger, Terry J.; Ulysses S. Seal and Edward D. Plotka INFLUENCE OF HYPOTHALAMIC-PITUITARY-ADRENOCORTICAL HORMONES ON REPRODUCTIVE HORMONES IN GRAY WOLVES (CANIS LUPUS). J. Exp. Zool.; 264(1):32-41. 1992. WR 233
247. **Seal, U.S.**; Wirth, R.; Thomsen, J.; Ellis-Joseph, S.; Collar, N. (Eds) Parrots: conservation assessment and management plan (CAMP). Report of a workshop held 14-17 January 1992 in Cambridge, UK. Draft review edition. CBSG., 1992. var. pp.
248. Mech, L. David; Thomas J. Meier and Ulysses S. Seal WOLF NIPPLE MEASUREMENTS AS INDICES OF AGE AND BREEDING STATUS. Am. Midl. Nat.; 129(2):266-271. 1993. WR 237
249. Hellgren, Eric C.; L. L. Rogers and U. S. Seal SERUM CHEMISTRY AND HEMATOLOGY OF BLACK BEARS: PHYSIOLOGICAL INDICES OF HABITAT QUALITY OR SEASONAL PATTERNS? J. Mammal.; 74(2):304-315. 1993. WR 237
250. Knick, Steven T.; Eric C. Hellgren and Ulysses S. Seal HEMATOLOGIC, BIOCHEMICAL, AND ENDOCRINE CHARACTERISTICS OF BOBCATS DURING A PREY DECLINE IN SOUTHEASTERN IDAHO. Can. J. Zool.; 71(7):1448-1453. 1993. In English with French summ. WR 239
251. Wolff, Peregrine L. and Ulysses S. Seal IMPLICATIONS OF INFECTIOUS DISEASE FOR CAPTIVE PROPAGATION AND REINTRODUCTION OF THREATENED SPECIES. J. Zoo Wildl. Med.; 24(3):229-230. 1993. WR 244
252. Wolff P L; **Seal U S** Implications of infectious disease for captive propagation and reintroduction of the threatened species. J. Zoo Wildl. Med.; 24(3): 229-230. 1993

253. MAUNDER, MICHAEL; PEARCE-KELLY, PAUL; MACE, GEORGINA; CLARKE, DAVID; UPSON, TIM; **SEAL, ULYSSES S.** Conservation assessment and management plan St. Helena Island. Oxford : Royal Botanic Gardens, Kew, 1993
254. TILSON, RONALD L.; **SEAL, ULYSSES S.**; SOEMARNA, KOMAR; RAMONO, WIDODO; SUMARDJA, EFFENDY Orangutan population and habitat viability analysis report: of the captive breeding specialist group species survival commission of the IUCN. Medan, North Sumatra, Indonesia : PHPA/CBSG/SSC/IUCN, 1993
255. DelGiudice, Glenn D.; L. David Mech and U. S. Seal NUTRITIONAL RESTRICTION AND ACID-BASE BALANCE IN WHITE-TAILED DEER. J. Wildl. Dis.; 30(2):247-253. 1994. WR 246
256. DelGiudice, Glenn D.; Francis J. Singer; Ulysses S. Seal and Gillian Bowser PHYSIOLOGICAL RESPONSES OF YELLOWSTONE BISON TO WINTER NUTRITIONAL DEPRIVATION. J. Wildl. Manage.; 58(1):24-34. 1994. WR 241
257. DelGiudice, Glenn D.; L. David Mech and Ulysses S. Seal UNDERNUTRITION AND SERUM AND URINARY UREA NITROGEN OF WHITE-TAILED DEER DURING WINTER. J. Wildl. Manage.; 58(3):430-436. 1994. WR 244
258. **Seal U S**; Foose T J; Ellis S Conservation assessment and management plans (CAMPs) and global captive action plans (GCAPs) in: Creative Conservation: Interactive Management of Wild and Captive Animals (Olney P J S et al, eds); Chapman & Hall London: 312-325. 1994
259. Saltz D; White G C; et al Assessing animal condition, nutrition, and stress from urine in snow. Wildlife Society Bulletin; 23(4): 694-704. 1995
260. DelGiudice, Glenn D.; Riggs, Michael R.; Mech, L. David; **Seal, Ulysses S.** Assessing animal condition, nutrition, and stress from urine in snow: response. Wildl. Soc. Bull.; 23(4):698-704. 1995.
261. Ellis, Susie and Ulysses S. Seal TOOLS OF THE TRADE TO AID DECISION-MAKING FOR SPECIES SURVIVAL. Biodivers. Conserv.; 4(6):553-572. 1995. WR 251
262. Qureshi, Q.; Singh, V.P.; Sankaran, R.; **Seal, U.S.**; Walker, S.; Molur, S. (Eds) Report: population and habitat viability assessment workshop (P.H.V.A.) for Barasingha (^/Cervus duvauceli^/) Zoos' Print, (11), 1995. :1-35.
263. Harrenstien, Lisa A.; Munson, Linda; **Seal, Ulysses S.** American Zoo & Aquarium Association Mammary Cancer Study Group Mammary cancer in captive wild felids and risk factors for its development: a retrospective study of the clinical behavior of 31 cases. J. Zoo Wildl. Med.; 27(4):468-476. 1996.
264. Pucek Z; **Seal U S**; Miller P S eds Population and Habitat Viability Assessment for the European Bison (Bison bonasus), Wolinski National Park, Miedzyzdroje, Poland, 26-29 June, 1995. IUCN/SSC Conservation Breeding Specialist Group, Apple Valley, Minnesota, USA, 110p + Appendix. 1996

265. Wildt, David E.; Rall, William F.; Critser, John K.; Monfort, Steven L.; **Seal, Ulysses S.** Genome resource banks: living collections for biodiversity conservation. BioScience; 47(10):689-698. 1997.
266. Kazensky C.A; Munson L; **Seal US** The effects of melengestrol acetate on the ovaries of captive wild felids. J Zoo Wildl Med; 29(1):1-5; 1998 Mar. ISSN: 1042-7260

REVIEWS AND BOOK CHAPTERS

1. Seal,U.S.: Phylogeny of certain serum carrier proteins. In *Phylogeny of Immunity*, Univ. Florida Press, pp. 37-46, 1966.
2. Seal,U.S. and Doe,R.P.: Corticosteroid-binding globulin: Biochemistry, physiology and phylogeny. In *Steroid Dynamics*, Academic Press, New York, 1966.
3. Doe,R.P. and Seal,U.S.: Corticosteroid-binding globulin. In *Oak Ridge Symposium on Radioisotopes in Medicine*, November 1967. U.S. Atomic Energy Comm. Symp. Conf. 67111, pp.339-350, 1968.
4. Seal,U.S., Nikolai,T.F. and Jones,J.E.: Thyroxine-binding globulin: Genetic alterations in concentration. In *Oak Ridge Symposium on Radioisotopes in Medicine*, November 1967. U.S. Atomic Energy Comm. Symp. Conf. 67111, pp. 315-324, 1968.
5. Seal,U.S. and Doe,R.P.: Effects of gonadal and contraceptive hormones on protein and amino acid metabolism. In *Metabolic Effects of Gonadal Hormones and Contraceptive Steroids*, H.A. Salhanick (ed.), Plenum Press, New York, pp.277-318, 1969.
6. Seal,U.S., Erickson,A.W., Siniff,D. and Hofman,R.: Biochemical, population genetic, phylogenetic and cytological studies of Antarctic seal species. In *SCAR Symposium #26006*, pp. 77-95, 1971.
7. Seal,U.S. and Makey,D.G.: *Seamak Zoogad Systems--Zoological Data Storage,Retrieval and Analysis Systems*, Univ. Minn. Press, pp. 1-306, October 1971.
8. Makey,D.G., Seal,U.S. and Murtfeldt,L.E.: *ISIS--Institution Procedures*. Minn Zoological Garden--ISIS, St Paul, pp. 1-58, July 1974.
9. Seal,U.S., and Makey,DJ.G.: *ISIS--Mammalian Taxonomic Directory*. Minn. Zool. Garden, St Paul, pp. 1-645, July 1974.
10. Makey,D.G., Seal,U.S. and Murtfeldt,L.E.: *ISIS--World Geographic and Zoological Institution Directory*. Minn. Zoological Garden--ISIS, St Paul, pp. 1-343, July 1974.
11. Seal,U.S. and Makey,D.G.: Computer usage for total animal and endangered species inventory systems: A specific proposal. In: *Research in Zoos and Aquariums*, National Academy of Sciences, Washington, D.C., pp. 178-190, 1975.
12. Seal, U.S., R. Barton, L. Mather, C.W. Gray, and E.D. Plotka. 1975. Long-term control of reproduction in female lions (*Panthera leo*) with implanted contraceptives. *Proc. Amer. Assoc. Zoo Vets.* 1975:66-76.

13. Bush,M., Seal,U.S., Smith,E., Lewis,M.D. and Bush,L.M.: Neonatal anemia and growth in sable antelope (*Hippotragia nilwe*). Proc. XVIII International Symp. uber die Erkrankungen der Zootiere, Akademie-Verlag, pp. 361-379, Innsbruck, 1976.
14. Seal,U.S., Makey,D.G., Bridgwater,D., Simmons,L. and Murtfeldt,L.: ISIS: A computerized record system for the management of wild species in captivity. In: *Endangered Birds*, S.A. Temple (ed.), Univ Wisc. Press, pp. 303-313, 1977.
15. Seal,U.S.: The Noah's Ark Problem. Multigeneration management of wild species in captivity. In: *Endangered Birds*, S.A. Temple (ed.), Univ. Wisc. Press, pp. 303-313, 1977.
16. Seal,U.S., Plotka,E.D. and Gray,C.W.: Baseline Hematology, Serum Chemistry and Hormone Data for Captive Tigers (*Panthera tigris ssp.*) and Lions (*P. leo*). Published in *Proceedings of International Symposium on the Management and Breeding of the Tiger*, Leipzig, G.D.R., pp.174-192, October 11-12, 1978.
17. Seal,U.S.: Noah's Ark--Sex and survival. Proc. First International Birds in Captivity Symposium, Seattle, JWA., pp. 301-317, March 1978.
18. Seal,U.S.: ISIS is for the birds. Proc. First International Birds in Captivity Symposium, Seattle, WA., pp. 1-14, March 1978.
19. Letellier,M.A., Plotka,E.D., Seal,U.S., Verme,L.J., and Ozoga, J.J.: A technique for pinealectomy in deer, with notes on the neuroanatomy. *Am. J. Vet. Res.* 39(10):1617-1620, 1978.
20. Seal,U.S. and Flesness,N.R.: Noah's Ark--Sex and Survival. *Proceedings of the 1978 AAZPA Annual Conference*, Denver, CO. pp. 214-228.
21. Seal,U.S. and Flesness,N.R.: Problems in Management of Genetic Diversity and Inbreeding in Small Captive Populations. Published in *Proceedings of International Symposium on the Management and Breeding of the Tiger*, Leipzig, G.D.R., pp. 81-91, October 11-12, 1978.
22. Plotka,E.D., Seal,U.S., Letellier,M.A., Verme,L.J. and Ozoga,J.J.: Endocrine and morphologic effects of pinealectomy in white-tailed deer. In: *Animal Models for Research on Contraception and Fertility*. N.J. Alexander (ed.), Harper and Row, Hagerstown, MD, pp. 452-466, 1979.
23. Seal,U.S., Murtfeldt,L.E. and Makey,D.G: ISIS--An established data bank for captive wolves. In: *The Behavior and Ecology of Wolves*, E. Klinghammer (ed.), Garland STPM Press, pp. 494-498, New York, 1979.
24. Seal,U.S.: Assessment of habitat condition by measurement of biochemical and endocrine indicators of the nutritional, reproductive and disease status of free-ranging animal populations. Proc. Symp. on Classification, Inventory, and Analysis of Fish and Wildlife Habitat, U.S. Fish & Wildlife Service, U.S. Govt. Printing Office, Washington, D.C., pp. 305-329. 1979.
25. Seal,U.S.: Molecular approaches to taxonomic problems in the Canidae. In: *The Wild Canids*. M.W. Fox (Ed.), Van Nostrand Reinhold, New York, pp. 27-39, 1979.

26. Plotka,E.D., Seal,U.S., Letellier,M.A., Verme,L.J. and Ozoga,J.J.: The effect of pinealectomy on seasonal phenotypic changes in white-tailed deer (*Odocoileus virginianus*). Proc. VI International Congress Endocrinol., Melbourne, Australia, pp February 10-16, 1980.
27. McMillin,J.M., Seal,U.S., and Karns,P.K.: Biorhythms: A. Control of male reproduction. Physiochemical and temporal considerations. In: Dissipative Structures and Spatiotemporal Organization Studies in Biomedical Research. G.P. Scott and J.M. McMillin (Eds.), Iowa State University Press, Ames, pp. 190-202, 1980.
28. Plotka,E.D., Seal,U.S., Letellier,M.A., Verme,L.J. and Ozoga,J.J. 1981. The effect of pinealectomy on seasonal phenotypic changes in white-tailed deer (*Odocoileus virginianus borealis*). In: Pineal Function. R.F. Seamark and C.D. Mathews (Eds.), Elsevier Press, N. Holland, pp.45-56.
29. Seal, U.S., Verme, L.J. and Ozoga, J.J. 1981. Physiologic values. In: Diseases and Parasites of White-tailed Deer. (Eds. Davidson,W.R., F.A. Hayes, V.F.Nettles, F.E.Kellogg). Misc. Pub. Tall Timbers Research Station, Tallahassee, Florida, pp. 17-34.
30. Schuman,L.M., Mandel,J.S., Radke,A., Seal,U.S., and Halberg,F.: Some selected features of the epidemiology of prostatic cancer: Minneapolis-St Paul, Minnesota case-control study, 1976-1979. In: Trends in cancer incidence. Ed. K. Magnus. Hemisphere Pub. Corp. New York, pp. 345-354, 1982.
31. Plotka, E.D., Seal, U.S., and Verme,L.J.: Morphologic and metabolic consequences of pinealectomy in deer. In: The Pineal Gland, Extra-Reproductive Effects, Vol. III, CRC press, Boca Raton, FL, pp 153-169, 1982.
32. Flesness, N.R., Garnatz, G., and Seal, U.S.: ISIS - An international specimen information system. In Databases in Systematics, (R. Allkin and F.A. Bisby, Eds.) Academic Press, N.Y. Pp. 103-112, 1984.
33. Packard, J.M., Mech, L.D., and Seal, U.S. 1983. Social influences on reproduction in wolves. In Wolves in Canada and Alaska: their status, biology and management. (L.N. Carbyn, ed), Can. Wildl. Serv. Report 45. Pp. 78-85.
34. Levine, A.S., Morley, J.E., Nizielski, S.E., Seal, U.S., Plotka, E.D., Gosnell, B.A., and Billington, C.J. 1984. Species diversity in opioid feeding systems. In: Recent advances in obesity research:IV, (J. Hirsch and T. van Itallie, Eds.), John Libbey & Co., Ltd.: England.
35. Seal, U.S. 1985. The realities of preserving species in captivity. In Realities of Species Preservation. (Hoage, R. and Muckenhirn, N. Eds) Smithsonian Press, Washington, DC.

36. Seal, U.S., Flesness, N., and Foose, T. 1985. Neonatal and infant mortality in captive-born great apes. In *Clinical management of infant great apes*. C. Graham, ed. Alan Liss, Inc. New York. Pp. 193-203.
37. Conway, W., U.S. Seal, L. Fisher, and T. Foose. 1985. The species survival plan and the Lowland Gorilla. *AAZPA Annual Conf. Proc.*, AAZPA, Wheeling WV, pp 332-333.
38. Seal, U.S., and N.R. Flesness. 1986. Captive chimpanzees - past, present, and future. In: K. Benirschke (ed). *Primates. The road to self-sustaining populations*, Springer-Verlag, New York. Pp 47-55.
39. Seal, U.S. 1986. How zoos and aquariums can help to maintain biological diversity. In: *AAZPA 1986 Annual Conf. Proc.* Pub. AAZPA, Wheeling, WV. Pp. 70-76.
40. Tilson, R.L., and U.S. Seal. 1986. Dilemma in tigerland: options against extinction. In: *AAZPA 1986 Annual Conf. Proc.* Pub. AAZPA, Wheeling, WV. Pp. 13-19.
41. Foose, T.J., and U.S. Seal. 1986. Species survival plans for large cats in North American zoos. In: S.D Miller & D.D. Everett (Eds) *Cats of the world*. National Wildlife Foundation, Washington, DC. Pp 173-198.
42. Maguire, L.A., U.S. Seal, and P.F. Brussard. 1987. Managing critically endangered species: the Sumatran rhino as a case study. In Soule, M. (ed) *Minimum Viable Populations*, Cambridge Univ. Press, pp 141-158.
43. Foose, T.J., U.S. Seal, and N.R. Flesness. 1987. Captive propagation as a component of conservation strategies for endangered primates. In: *Primate conservation in the tropical rain forest*. Mittermeier, R., S. Gartlan, and C. Marsh (Eds.). Alan Liss, New York. Pp. 263-299.
44. Seal, U.S. and M. Bush. 1987. Immobilization of the Cervidae. A review with new data. In *Biology and Management of the Cervidae*. C. Wemmer, (ed.). Smithsonian Press, pp 480-504.
45. Seal, U.S. and T.J. Kreeger. 1988. Chemical immobilization of furbearers. In: M. Novak and J.A. Baker. *Wild furbearer management and conservation in North America*.
46. Seal, U.S., E.D. Plotka, D. Mech, and J.M. Packard. 1987. Seasonal metabolic and reproductive cycles in wolves. In: Frank, H. (ed.), *Man and wolf*, Dr. W. Junk Publishers, Dordrecht, The Netherlands. Pp 109-125.
47. Binczik, G.A., N.J. Reindl, R. Taylor, U.S. Seal, and R.L. Tilson. 1987. A neonatal growth model for captive Amur tigers. In Tilson, R. and U.S. Seal, (editors) *Tigers of the world: The biology, biopolitics, management and conservation of an endangered species*. Noyes Publ., Park Ridge, New Jersey, pp. 167-170.

48. Seal, U.S., P. Jackson, and R.L. Tilson. 1987. A global tiger conservation plan. In Tilson,R. and U.S. Seal, (editors) *Tigers of the world: The biology, biopolitics, management and conservation of an endangered species*. Noyes Publ., Park Ridge, New Jersey, pp. 487-498.
49. Hensleigh, H.C., A.P. Byers, G.S. Post, N. Reindl, U.S. Seal, and R.L. Tilson. 1987. Evaluation of tiger fertility by the sperm penetration assay. In Tilson,R. and U.S. Seal, (editors) *Tigers of the world: The biology, biopolitics, management and conservation of an endangered species*. Noyes Publ., Park Ridge, New Jersey, pp. 280-286.
50. Seal, U.S., R.L. Tilson, E.D. Plotka, N.J. Reindl, and M.F. Seal. 1987. Behavioral indicators and endocrine correlates of estrus and anestrus in Siberian tigers. In Tilson,R. and U.S. Seal, (editors) *Tigers of the world: The biology, biopolitics, management and conservation of an endangered species*. Noyes Publ., Park Ridge, New Jersey, pp. 244-254.
51. Tilson, R., and U.S. Seal (editors) 1987. *Tigers of the world: The biology, biopolitics, management and conservation of an endangered species*. Noyes Publ., Park Ridge, New Jersey.
52. O'Brien, S.J., G.E. Collier, R.E. Beneniste, W.G. Nash, A.K. Newman, J.M. Simonson, M.A. Eichelberger, U.S. Seal, M. Bush, and D.E. Wildt. 1987. Setting the molecular clock in the Felidae: the great cats, Panthera. In Tilson,R. and U.S. Seal, (editors) *Tigers of the world: The biology, biopolitics, management and conservation of an endangered species*. Noyes Publ., Park Ridge, New Jersey, pp. 10-27.
53. DelGiudice, G.D., U.S. Seal, and L.D. Mech. 1987. Nutritional indices of wild mammals: a new direction for wildlife and habitat management systems. In Proc. XVIIIth Congress of Inter. Union of Game Biologists. August 23-29, 1987. Jagiellonian Univ., Krakow, Poland. Accepted.
54. DelGiudice, G.D., U.S. Seal, and L.D. Mech. 1987. Sampling considerations involved with monitoring the nutritional status of gray wolves (*Canis lupus*) via biochemical analysis of snow-urine. In Proc. XVIIIth Congress of Inter. Union of Game Biologists. August 23-29, 1987. Jagiellonian Univ., Krakow, Poland.
55. Seal, U.S., E.T. Thorne, M. Bogan, and S. Anderson, Editors. 1989. *Conservation Biology of the Black-footed Ferret*. Yale University Press. New Haven, Connecticut.
56. Seal, U.S. Introduction. In Seal, U.S., E.T. Thorne, M. Bogan, and S. Anderson, Editors. 1989. *Conservation Biology of the Black-footed Ferret*. Yale University Press. New Haven, Connecticut. Pp. 325.
57. Seal, U.S. (Editor). 1990. *Fertility Control in Wildlife*. In press.
58. Seal, U.S. 1989. Implants of a progestagen for long term reversible fertility control in captive and free ranging wild animals. In: Seal, U.S. (Editor). *Fertility Control in Wildlife*. In review.

59. Seal, U.S. 1989. Introduction. In: Seal, U.S. (Editor). 1989. Fertility Control in Wildlife. In review.
60. DelGiudice, G.D., L.D. Mech, and U.S. Seal. 1990. Browse diversity and the physiological status of white-tailed deer during winter. Pages - in J.E. Rodiek and E. Bolen, Eds. Wildlife Habitats in Managed Landscapes. Island Press, Washington, D.C.
61. Seal, U.S., Foose, T.J. & Ellis, S. 1993. Conservation Assessment and Management Plans (CAMPs) and Global Captive Action Plans (GCAPs). In P.J.S. Olney, G.M. Mace, and A.T.C. Feistner (Eds.): Creative Conservation: interactive management of wild and captive animals. London: Chapman and Hall.
62. Ellis, S. & Seal, U.S. 1995. Tools of the Trade to Aid Decision-making for Species Survival. *Biological Conservation* 4: 553-572.

CBSG WORKSHOP PUBLICATIONS

1. Seal, U.S. (editor) 1989. *Florida Panther: Population Viability Analysis*. CBSG. Apple Valley, MN.
2. Seal, U.S. (editor) 1990. *Puerto Rican Parrot: Population Viability Analysis*. CBSG. Apple Valley, MN.
3. Seal, U.S. (editor) 1991. *Tana River Primate Reserve Population and Habitat Viability Analysis*. CBSG. Apple Valley, MN.
4. Seal, U.S. (editor) 1991. *Waldrapp Ibis: Preliminary Population Viability Analysis*. CBSG. Apple Valley, MN.
5. Seal, U.S. (editor) 1991. *Pink Pigeon: Population Viability Analysis*. CBSG. Apple Valley, MN.
6. Seal, U.S. (editor) 1991. *Key Deer: Population Viability Analysis*. CBSG. Apple Valley, MN.
7. Seal, U.S. (editor) 1991. *Caribbean Parrots (St. Vincent's, St. Lucia's, Imperial, and Red-necked): Population and Habitat Viability Analysis*. CBSG. Apple Valley, MN.
8. Foose, T.J. and U. S. Seal. (editors) 1991. *Kenya Black Rhinoceroses: Meta-population and Habitat Viability Analysis*. CBSG. Apple Valley, MN.
9. Seal, U.S. (editor) 1992. *Kirtland's Warbler: Population Viability Analysis*. CBSG. Apple Valley, MN.
10. Seal, U.S. (editor) 1992. *Whooping Crane: Population Viability Analysis*. CBSG. Apple Valley, MN.
11. Seal, U.S. (editor) 1992. *Aruba Island Rattlesnake: Population Viability Analysis*. CBSG. Apple Valley, MN.

12. Lacy, R. and U. S. Seal, (editors) 1992. *Cotton-top Tamarin: Preliminary Population Viability Analysis*. CBSG. Apple Valley, MN.
13. Seal, U.S. (editor) 1992. *Kaka and Kea: Population Viability Analyses*. CBSG. Apple Valley, MN.
14. Seal, U.S. (editor) 1992. *Parrots: Conservation Assessment and Management Plan*. CBSG. Apple Valley, MN.
15. Sausman, K., U.S. Seal, and T.J. Foose (editors). 1992. *Antelope: Conservation Assessment and Management Plan*. CBSG, Apple Valley, MN.
16. Foose, T.J., Ellis-Joseph, S., & Seal, U.S. 1992. *Conservation Assessment and Management Plans (CAMPs) Progress Report. Species 18, 73-75*.
17. Ellis, S., Leatherwood, S., Bruford, M., Kaiya, Z., & Seal, U.S. 1993. *Baiji (Lipotes vexillifer) Population and Habitat Viability Assessment. Species 20: 25-29*.
18. CBSG. 1994. *Attwater's Prairie Chicken PHVA Briefing Book*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
19. CBSG. 1994. *Ungulate CAMP Briefing Book*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
20. CBSG. 1994. *Thailand Gibbon PHVA Briefing Book*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
21. CBSG. 1994. *Genetic Resource Banking Population Biology Briefing Materials*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
22. CBSG. 1994. *Javan Gibbon and Langur CAMP Briefing Book*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
23. CBSG. 1994. *Conservation Assessment and Management Plan (CAMP) Workshop Reference Material Packet. Fourth Edition*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
24. CBSG. 1994. *Population and Habitat Viability Assessment for the Greek Population of the Mediterranean Monk Seal Briefing Book*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
25. CBSG. 1994. *Global Captive Action Plan Reference Material Packet*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
26. CBSG. 1994. *Global Captive Action Plan (GCAP) Workshop Reference Material Packet. Second Edition*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
27. CBSG. 1994. *Global Captive Action Recommendations (GCAR) Workshop Reference Material*

- Packet. Third Edition.* Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
28. CBSG. 1994. *Global Captive Action Recommendations (GCAR) Workshop Reference Material Packet. Fourth Edition.* Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
 29. CBSG. 1994. *Population Biology Aspects of Genome Resource Banking Workshop Report.* Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
 30. CBSG. 1994. *Houston Toad Population and Habitat Viability Assessment Briefing Book.* Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
 31. CBSG. 1994. *Asiatic Black Bear Population and Habitat Viability Assessment Briefing Book.* Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
 32. CBSG. 1994. *African Antelope and African Parrot Conservation Assessment and Management Plan Review Workshop Briefing Book.* Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
 33. CBSG. 1994. *Costa Rican Endemic Species Conservation Assessment and Management Plan and Squirrel Monkey (Saimiri oerstedii) Population and Habitat Viability Assessment Briefing Book.* Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
 34. CBSG. 1994. *CBSG Annual Meeting Briefing Book.* Apple Valley, MN: IUCN/SSC Captive Breeding Specialist Group.
 35. CBSG. 1994. *CBSG Workshop Participant List Summary Document.* Apple Valley, MN: IUCN/SSC Captive Breeding Specialist Group.
 36. CBSG. 1994. *Conservation Assessment and Management Plan Summary: 1994 CAMP Summary Report.* Apple Valley, MN: IUCN/SSC Captive Breeding Specialist Group.
 37. CBSG. 1994. *Marsh Deer Population and Habitat Viability Assessment Briefing Book.* Apple Valley, MN: IUCN/SSC Captive Breeding Specialist Group.
 38. CBSG. 1994. *South American Felid Conservation Assessment and Management Plan and Global Captive Action Recommendation Workshops Briefing Book.* Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
 39. CBSG. 1994. *South American Felid Conservation Assessment and Management Plan Draft Report.* Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.

40. CBSG. 1994. *Process Design: Population and Habitat Viability Assessment (PHVA) Workshops Working Manual. Second Edition*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
41. CBSG. 1994. *South American Canid Conservation Assessment and Management Plan Review*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
42. CBSG. 1994. *Population and Habitat Viability Assessment for the Greek Population of the Mediterranean monk seal: Workshop Report*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
43. CBSG. 1994. *Conservation Assessment and Management Plan (CAMP) Workshop for Panamanian Endemics and Population and Habitat Viability Assessment Workshop for Baird's Tapir (Tapirus bairdii) Briefing Book*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
44. Ellis, S., Byers, A., & Seal, U.S. 1994. *The Conservation Assessment and Management Plan (CAMP) and Global Captive Action Plan (GCAP) Programs*. Paper presented at SSC meeting, Buenos Aires, 15 January 1994.
45. Gonzalez, S., Merino, M., Gimenez-Dixon, M., Ellis, S., & Seal, U.S. 1994. *Evaluacion de la Viabilidad de la Poblacion y Habitat del Venado de las Pampas Final Report*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
46. Kaiya, Z., Ellis, S., Leatherwood, S., Bruford, M., & Seal, U.S. 1994. *Baiji Population and Habitat Viability Assessment Final Report*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
47. Maunder, M., Pearce-Kelly, P., Mace, G., Clarke, D., Upson, T., & Seal, U.S. 1994. *Conservation Assessment and Management Plan for St. Helena Island: CAMP and PHVA Workshop Report*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
48. Maunder, M., Pearce-Kelly, P., Mace, G., Clarke, D., Upson, T., & Seal, U.S. 1994. *Conservation Assessment and Management Plan for St. Helena Island: CAMP and PHVA Workshop Summary*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
49. Ounstead, M., Soemarna, K., Ramono, W., Seal, U.S., Green, A., Rudyanto, & Ounstead, R. 1994. *White-winged Wood Duck Population and Habitat Viability Assessment Workshop Report*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
50. Seal, U.S., Garland, P.G., Butler, D., Grant, A., & O'Donnell, C. 1994. *Kaka/Kea Population and Habitat Viability Assessment Workshop Report Final Report*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
51. Seal, U.S., Hereford, S., & workshop participants. 1994. *Population and Habitat Viability Assessment for the Mississippi Sandhill Crane (Grus canadensis pulla) Workshop Report*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
52. Seal, U.S., Morrow, M., & the Workshop Participants. 1994. *Attwater's Prairie Chicken Population*

- and Habitat Viability Assessment Workshop Report. Final Report.* Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
53. Seal, U.S. & the Workshop Participants. 1994. *Population and Habitat Viability Assessment for the Greek population of the Mediterranean Monk Seal - Workshop Report.* Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
 54. Seal, U.S. & Valdespino, C. 1994. *Taller Análisis de la Viabilidad Poblacional y del Habitat. Paquete de Materiales de Referencia.* Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
 55. Seal, U.S. 1994. *Population and Habitat Viability Assessment: Houston Toad Workshop Report.* Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
 56. Seal, U.S. 1994. *Process design of PHVA Workshops: A Working Manual.* Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
 57. Seal, U.S. 1994. *A Plan for Genetic Restoration and Management of the Florida Panther (Felis concolor coryi).* Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
 58. Soemarna, K., Tilson, R., Ramono, W., Sinaga, D.W., Sukumar, R., Foose, T.J., Traylor-Holzer, K., & Seal, U. 1994. *Sumatran Rhino in Indonesia Population and Habitat Viability Analysis Report.* Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
 59. Supriatna, J., Tilson, R., Guymaya, K.J., Manansang, J., Wardojo, W., Sriyanto, A., Teare, A., Castle, K., & Seal, U. 1994. *Javan Gibbon and Javan Langur Population and Habitat Viability Analysis Report.* Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
 60. Tilson, R., Soemarna, K., Ramono, W., Sukumar, R., Seal, U.S., Traylor-Holzer, K., & Santiapillai, C. 1994. *Asian Elephant in Sumatra - Population and Habitat Viability Assessment.* Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
 61. Tilson, R., Soemarna, K., Ramono, W., Lisi, S., Traylor-Holzer, K., & Seal, U.S. 1994. *Sumatran Tiger Population and Habitat Viability Assessment.* Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
 62. Wang, Y., Chu, S. W., & Seal, U.S. 1994. *Asiatic Black Bear Population and Habitat Viability Assessment. Workshop Report.* Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
 63. Westley, F. & Vredenberg, H. 1994. *Process design of PHVA Workshops: a working manual.* Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.

64. Wirth, R., Glatston, A., Byers, O., Ellis, S., Foster-Turley, P., Robinson, P., Van Rompaey, H., Moore, D., Kumar, A., Melisch, R., & Seal, U.S. 1994. *Small Carnivore Conservation Assessment and Management Plan Final Review Draft*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
65. Wong, G., Matamoros, Y., & Seal, U.S. 1994. *Population and Habitat Viability Assessment Workshop for Saimiri oerstedii citrinellus Workshop Report*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
66. Ashraf, N.V.K., R. Chellam, S. Molur, U.S. Seal, D. Sharma and S. Walker (Eds.). 1995. *Asiatic Lion Population and Habitat Viability Assessment Report*. 1995. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
67. Byers, O., S. Hedges and U. Seal (Eds.). 1995. *Asian Wild Cattle Conservation Assessment and Management Plan Working Document*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
68. Byers O. and U. Seal (Eds.). 1995. *Asian Wild Cattle Conservation Assessment and Management Plan Draft Report*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
69. Byers O. and U. Seal (Eds.). 1995. *Stork, Ibis and Spoonbill Conservation Assessment and Management Plan. Draft Report*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
70. Byers O., K. Brouwer and U. Seal (Eds.). 1995. *Stork, Ibis and Spoonbill Conservation Assessment and Management Plan. Working Document*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
71. Byers, O, D. Wildt and U. Seal (Eds.). 1995. *Felid Conservation Assessment and Management Plan and Global Captive Action Recommendations Working Document*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
72. Ellis, S. and U.S. Seal. 1995. *Conservation Assessment and Management Plan Workshop Reference Material Packet*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
73. Pucek, Z., U.S. Seal and P.S. Miller (Eds.). 1995. *Population and Habitat Viability Assessment for the European bison (Bison bonasus). Draft Report*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
74. Seal, U.S. (ed.). 1995. *Komodo Monitor (Varanus komodoensis) Population and Habitat Viability Assessment. Draft Report*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
75. Seal, U.S., P.S. Miller and S. Ellis. (Eds.). 1995. *Conservation Assessment and Management Plan and Population and Habitat Viability Assessment for Marine turtles of Indonesia. Draft Report*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
76. Seal, U., S. Walker and S. Molur (Eds.). 1995. *Barasingha Population and Habitat Viability Assessment Report*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.

77. Wang, M., R. Tilson, K. Traylor-Holzer, J. Manansang, U. Seal (Eds.). 1995. *South China Tiger Studbook Analysis and Masterplan*. Apple Valley, MN: Minnesota Zoo.
78. Wildt, D.E., A.P. Byers and U.S. Seal (Eds.). 1995. *Tiger Genome Resource Banking Action Plan: Global Need and a Plan for North America*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
79. Arteaga, A., I. Canizales, G. Hernandez, M.C. Lamas, A. De Luca, M. Munoz, A. Ochoa, A. Seijas, j. Thorbjarnarson, A. Velasco, S. Ellis, y U.S. Seal. (Eds.). 1996. *Taller de Analisis de la Viabilidad Poblacional y del Habitat (PHVA) del Caiman del Orinoco (Crocodylus intermedius), Borrador para Revision*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN.
80. Arteaga, A., I. Canizales, G. Hernandez, M.C. Lamas, A. De Luca, M. Munoz, A. Ochoa, A. Seijas, j. Thorbjarnarson, A. Velasco, S. Ellis, y U.S. Seal. (Eds.). 1996. *Taller de Analisis de la Viabilidad Poblacional y del Habitat (PHVA) del Caiman del Orinoco (Crocodylus intermedius), Reporte del Taller*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN.
81. Aranda, M., J. Bernal Stoopan, A.L. Camacho, R. Cudney Bueno, D.M. Brousset, S. Ellis, C. Lewy Sanchez-Aldana, E. McCance, and E. Yarto Jaramillo. (Eds.). 1996. *Conservation Assessment and Management Plan for the Felids of Mexico Working Draft*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN.
82. Barongi, R.J., J. Ventocilla, P. Miller and U.S. Seal (Eds.). 1996. *Population and Habitat Viability Assessment for Baird's Tapir (Tapirus bairdi). Final Report*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN.
83. Berry, H., M. Bush, B. Davidson, O. Forge, B. Fox, J. Grisham, M. Howe, S. Hurlbut, L. Marker-Kraus, D. Kraus, J. Martenson, L. Munson, K. Nowell, M. Schumann, T. Shille, F. Standers, K. Venzke, K., T. Wagener, D. Wildt, S. Ellis and U. Seal. 1996. *Population and Habitat Viability Assessment for the Namibian cheetah (Acinonyx jubatus) and lion (Panthera leo). Workshop Report*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN.
84. Croxall, J., J. Cooper and S. Ellis (Eds.). 1996. *Penguin Conservation Assessment and Management Plan Workshop Workbook*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN.
85. Ellis, S. and U.S. Seal (Eds.). 1996. *Population and Habitat Viability Assessment Workshop Report for the Namibian Cheetah and Lion, Review Draft Report*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN.
86. Ellis, S. and U.S. Seal (Eds.). 1996. *Conservation Assessment and Management Plan (CAMP) Process Reference Manual*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN.
87. Ellis, S. and U.S. Seal (Eds.). 1996. *CBSG Futures Search 2: Widening the Circle*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN.
88. Manansang, J., P. Miller and U.S. Seal (Eds.). 1996. *Population and Habitat Viability Assessment*

- Workshop Report for the Javan Hawk-Eagle (*Spizaetus bartelsi*), Draft Report. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN.
89. Matamoros, Y., G. Wong, and U.S. Seal (Eds.). 1996. Population and Habitat Viability Assessment Workshop for (*Saimiri oerstedii citrinellus*) Draft Report. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN.
 90. Pollisco, W. and U.S. Seal (Eds.). 1996. Population and Habitat Viability Assessment for the Tamaraw (*Bubalus mindorensis*) Draft Report. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN.
 91. Pucek, Z., I. Udina, U.S. Seal and P.S. Miller (Eds.). 1996. Population and Habitat Viability Assessment Workshop Report for the European Bison (*Bison bonasus*). IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN.
 92. Seal, U.S. (ed.). 1996. Kirtland's Warbler (*Dendroica kirtlandii*) Population and Habitat Viability Assessment Workshop Report. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN.
 93. Seal, U.S., J. Manansang, D. Siswomartono, T. Suhartono and J. Sugarjito (Eds.). 1996. Komodo monitor (*Varanus komodoensis*) Population and Habitat Viability Assessment. Workshop Report. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN.
 94. Arteaga, A., I. Canizales, G. Hernandez, M. Cruz Lamas, A. De Luca, M. Munoz, A. Ochoa, A. Seijas, J. Thorbjarnarson, A. Velasco, S. Ellis y U.S. Seal (Eds.). 1997. *Taller de Analisis de la Viabilidad Poblacional y del Habitat del Caiman del Orinoco (Crocodylus intermedius)*, Reporte del Taller. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
 95. Berlin, N., P. Miller, J. Borovansky, U.S. Seal and O. Byers. (Eds.). 1997. *Population and Habitat Viability Assessment for the Goblin Fern (Botrychium mormo) Draft Report*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN.
 96. Berry, H., M. Bush, B. Davidson, O. Forge, B. Fox, J. Grisham, M. Howe, S. Hurlbut, L. Marker-Kraus, J. Martenson, L. Munson, K. Nowell, M. Schumann, T. Shille, K. Venzke, T. Wagener, D. Wildt, S. Ellis and U. Seal (Eds.). 1997. *Population and Habitat Viability Assessment for the Namibian Cheetah (Acinonyx jubatus) and Lion (Panthera leo)*. Workshop Report. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
 97. CBSG. 1997. *Population and Habitat Viability Assessment Workshop for the Chimpanzee of Uganda (Pan troglodytes schweinfurthii): Briefing Book*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
 98. CBSG. 1997. *Conservación, Análisis y Manejo Planificado para las Cactáceas del Valle Cuicatlán-Tehuacán. Libro de Resumen*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
 99. CBSG. 1997. *Population and Habitat Viability Assessment Workshop for the Lion Tamarins of Brazil (Leontopithecus): Briefing Book*. IUCN/SSC Conservation Breeding Specialist Group: Apple

Valley, MN, USA.

100. CBSG. 1997. *Population and Habitat Viability Assessment Workshop for the Winged Mapleleaf Mussel (Quadrula fragosa): Briefing Book*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
101. CBSG. 1997. *Population and Habitat Viability Assessment Workshop for the Mountain Gorilla (Gorilla gorilla beringei): Briefing Book*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
102. Ellis, S.E. and U.S. Seal (Eds.). 1997. *San Marcos and Comal Springs Ecosystems Viability Assessment and Management Planning Workshop, Revised Report*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
103. Ellis, S., R. Seal, and U.S. Seal (Eds.). 1997. *Joint Hydrology and Biology Working Group Draft Discussion Notes*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
104. Manansang, J., D. Siswomartono, T. Soehartono, U. Seal, P. Miller, and S. Ellis (Eds.). 1997. *Marine Turtles of Indonesia: Population Viability and Conservation Assessment and Management Workshop*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
105. Manansang, J., A. MacDonald, D. Siswomartono, P. Miller and S. Seal (Eds.). 1997. *Population and Habitat Viability Assessment for the Babirusa (Babirusa babirusa). Final Report*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
106. Manansang, J., P. Miller and O. Byers (Eds.). 1997. *Population and Habitat Viability Assessment for the Javan Hawk Eagle (Spizaetus bartelsi) Final Report*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
107. Matamoros, Y., C. Asa, O. Byers and U. Seal (Eds.). 1997. *Conservation Assessment and Management Plan for Mesoamerican Primates: Briefing Book*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
108. Matamoros, Y and U.S. Seal. (Eds.). 1997. *Costa Rica Confiscations Analysis and Planning Workshop Report*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
109. Matamoros, Y. and U.S. Seal. (Eds.). 1997. *Threatened Plants of Costa Rica Workshop Report*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.

110. Matamoros, Y., Z. de Mendoza, L. Ramos and U.S. Seal (Eds.). 1997. *Conservation Assessment and Management Plan and Disposal of Confiscated Animals Workshop for Selected Species in El Salvador. Summary Report*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
111. Matamoros, Y., Z. de Mendoza, L. Ramos and U.S. Seal (Eds.). 1997. *Conservation Assessment and Management Plan and Disposal of Confiscated Animals Workshop for Selected Species in El Salvador. Report*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
112. Mendoza, Z. and U.S. Seal (Eds.) 1997. *Conservation Assessment and Management Plan and Confiscation Workshop for Selected Species in El Salvador. Briefing Book*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
113. Mendoza, Z. and U.S. Seal (Eds.) 1997. *Conservation Assessment and Management Plan and Confiscation Workshop for Selected Species in El Salvador Draft Report*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
114. Perez, E., E. Osa, Y. Matamoros and U.S. Seal. (Eds.). 1997. *Conservation Assessment and Management Plan Workshop for Selected Cuban Species, Report*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
115. Perez, E., E. Osa, Y. Matamoros, and U.S. Seal (Eds.). 1997. *Conservation Assessment and Management Plan Workshop for Selected Cuban Species II: Briefing Book*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
116. Perez, E., E. Osa, Y. Matamoros and U.S. Seal (Eds.). 1997. *Conservation Assessment and Management Plan Workshop for Selected Cuban Species II: Draft Report*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
117. Seal, U.S. (ed.) 1997. *Draft report of the Edwards Aquifer Workshop, San Marcos, Texas, 28-31 October 1996. Revised Report*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
118. Seal, U.S. and S. Ellis (Eds.). 1997. *Salamander Working Group Discussion Notes (Revised). Austin, Texas, 20 November 1996*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN:
119. Seal, U.S. and S. Ellis. 1997. *Fountain Darter Working Group Discussion Notes (Revised). Austin, Texas, 20 November 1996*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
120. Seal, U.S. and S. Ellis. 1997. *Texas Wild-rice Working Group Discussion Notes (Revised). Austin, Texas, 20 November 1996*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.

121. Seal, U.S., K. Brouwer, D. Ehrlinger, L Hudson, R. Hudson, J. Lukas, L. Simmons (Eds.). 1997. *Roma Zoo Masterplan-Step 1. Briefing Book* IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
122. Seal, U.S., K. Brouwer, D. Ehrlinger, L Hudson, R. Hudson, J. Lukas, L. Simmons. 1997. *Roma Zoo Masterplan-First Stage Concept Design Report*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
123. Seal, U.S. and S. Ellis (Eds.) 1997. *Fountain Darter Working Group. Discussion Notes (Revised 21 February 1997)*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
124. Seal, U.S. and S. Ellis (Eds.). 1997. *Salamanders Working Group. Discussion Notes (Revised 21 February 1997)*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
125. Seal, U.S. and S. Ellis (Eds.). 1997. *Texas Wild-rice Working Group. Discussion Notes (Revised 21 February 1997)*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
126. Seal, R., S. Ellis and U.S. Seal (Eds.). 1997. *Joint Hydrology and Biology Working Group Revised Draft Report (20 June 1997)*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
127. Shuling, Z., Q. Zhao, X. Zhong, D.E. Wildt and U.S. Seal. (Eds.) 1997. *Giant Panda Captive Management Planning Workshop Report*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN, USA.
128. Matamoros, Y., Z. de Mendoza, L. Ramos and U.S. Seal (Eds.) 1997. *Conservation Assessment and Management Plan Workshop and Disposal of Confiscated Animals Workshop for Selected Species in El Salvador Draft Report*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
129. Berlin, N., P. Miller, J. Borovansky, U.S. Seal and O. Byers (Eds.). 1998. *Population and Habitat Viability Assessment Workshop for the Goblin Fern (*Botrychium mormo*) Final Report*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN.
130. Conservation Breeding Specialist Group (SSC/IUCN). . 1998. *Population and Habitat Viability Assessment Workshop for the Peary Caribou (*Rangifer tarandus pearyi*): Briefing Book*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN.
131. Heredia, B., Gaona, P., Vargas, A., Ellis, S. and U.S. Seal (Eds.). 1998. *Taller Análisis de la Viabilidad de Población y del Hábitat para el Lince Ibérico (*Lynx pardinus*) Borrador del Reporte*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN.
132. Kjos, C., Byers, O., Miller, P., Borovansky, J. and U.S. Seal (Eds.). 1998. *Population and Habitat Viability Assessment Workshop for the Winged Mapleleaf Mussel (*Quadrula fragosa*) Report*. CBSG, Apple Valley, MN.
133. Mills, M.G.L., Ellis, S., Woodroffe, R., Maddock, A., Stander, P., Pole, A., Rasmussen, G., Fletcher, P., Bruford, M., Wildt, D., Macdonald, D. and U.S. Seal (Eds.). 1998. *Population and Habitat Viability Assessment African Wild Dog (*Lycaon pictus*) in Southern Africa Report*. IUCN/SSC

Conservation Breeding Specialist Group: Apple Valley, MN.

134. Rylands, A., Strier, K., Mittermeier, R., Borovansky, J. and U.S. Seal (Eds.). 1998. *Population and Habitat Viability Assessment Workshop for the Muriqui (Brachyteles arachnoides) Report*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN.
135. Seal, U.S., Miller, P., Byers, O. and J. Borovansky (Eds.). 1998. *Conservation of Threatened Mussel Species as a Multiple Stakeholder Process*. Freshwater Mussel Symposium, Abstract.
136. Seal, U.S. and Y. Matamoros (Eds.). 1998. *Cuban Plant Conservation Assessment and Management Plan Final Report*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN.
137. Seal, U.S. and E. Perez (Eds.). 1998. *Cuban Animal Conservation Assessment and Management Plan Draft Report*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN.
138. Seal, U.S. and Y. Matamoros (Eds.). 1998. *Mesoamerican Primate Conservation Assessment and Management Plan Draft Report*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN.
139. Seal, U.S. and Y. Matamoros (Eds.). 1998. *Costa Rican Orchids Conservation Assessment and Management Plan Draft Report*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN.
140. Seal, U.S. and Y. Matamoros (Eds.). 1999. *Costa Rican Medicinal Plants Conservation Assessment and Management Plan Draft Report*. IUCN/SSC Conservation Breeding Specialist Group: Apple Valley, MN.