

William H. Karasov
Department of Forest and Wildlife Ecology

I. BACKGROUND INFORMATION

A. William H. Karasov

Title: Professor

Appointment Split: Teaching – 50%, Research – 50%

B. FORMAL EDUCATION

<u>Degree</u>	<u>Institution</u>	<u>Major Field</u>	<u>Granted</u>
Ph.D.	University of California-Los Angeles	Biology	1981
B.S.	University of Minnesota	Biology	1975

C. EMPLOYMENT EXPERIENCE (POST-GRADUATE)

2015 – current Faculty Director of BioHouse, a residential learning community
2009 – 2015 Chair, Department of Forest and Wildlife Ecology
1985-current Professor (since 1995), Associate Professor (1990-1995), Assistant Professor (1985-1990), Department of Wildlife Ecology, University of Wisconsin, Madison
1988-current (Affiliate) Assistant, Associate, Full Professor, Department of Integrative Biology (formerly Zoology), University of Wisconsin, Madison
1986-current Graduate Faculty Member of: Molecular and Environmental Toxicology Center, Interdepartmental Graduate Program in Nutritional Sciences (IGPNS), Gaylord Nelson Institute for Environmental Studies, University of Wisconsin, Madison
1981-1984 Postdoctoral Research Physiologist, Department of Physiology, School of Medicine University of California, Los Angeles

D. HONORS AND AWARDS

2016-2018 Visiting Professor, University of Pretoria, Pretoria, South Africa
2013 Elected Fellow of the American Association for the Advancement of Science
2012 Visiting Lecturer, Institute of Environmental Sciences, Jagiellonian University, Krakow, Poland
2010 August Krogh Distinguished Lectureship for the Comparative and Evolutionary Physiology Section of the American Physiological Society
2008 Visiting Lecturer, Charles Darwin University, Darwin, NT, Australia
2005 Jung Teaching Award, College of Agricultural and Life Sciences, UW-Madison
2004 Visiting Professor at Pontificia Universidad Catolica de Chile, Santiago, Chile
2001 Leverhulme Trust Visiting Professor at University of Wales, Bangor, United Kingdom
2000 Visiting Professor at Kunming Institute of Zoology, Yunnan, China
1998-99 Visiting Professor at University of San Luis, Argentina
1997 Fulbright Research Award at Ben Gurion University, Israel
1997 Dozor Visiting Fellow, Ben Gurion University, Israel
1996 Distinguished Visitor at James Cook University, Qld, Australia
1995 Visiting Professor at University of San Luis, Argentina
1992 Jacob Blaustein Scholar at the Blaustein International Center for Desert Studies, Israel
1990 Pound Research Award, College of Agricultural and Life Sciences, UW-Madison
1985 National Science Foundation Presidential Young Investigator Award

E. SOCIETY AND PROFESSIONAL MEMBERSHIPS

- (1) American Association for the Advancement of Science,
- (2) American Physiological Society,
- (3) Comparative Nutrition Society,
- (4) Sigma Xi,
- (5) Society for Integrative and Comparative Biology

II. TEACHING

- A. List of courses taught; numbers, titles, credits, very brief description, terms/years taught and enrollment for each.

Data are arranged in two tables:

Table 1. List of courses taught; numbers, titles

Table 2. List of courses taught by year/semester, credits, number of students enrolled (Next Page)

Table 1. List of courses taught; numbers, titles, credits, comments

Course #	Course Title	Years	Credits	Comments
FWE401	Animal Physiological Ecology	1985-current	3	Lecture/discussion
METC632-34	Ecotoxicology	1989-current [#]	3	Lecture/Course with three 1-cr modules
INTEGSCI 110/375	BioHouse Freshman Seminar	2015-current	1	Lecture/discussion
FWE/METC/Zool 990	Graduate research	annually	1-8	Research mentoring
FWE/Zool/Biol699	Special problems (Ind. Study)	annually	1-5	Research mentoring
FWE/Zool681	Sr. Honors Thesis	annually	1-5	Research mentoring
FWE/Zool682	Sr. Honors Thesis	annually	1-5	Research mentoring
FWE399	Coord. Internship	annually	1-3	
FWE299	Ind. Study	annually	1-3	Research mentoring
Zool698	Directed study	annually	1-3	Research mentoring
Zool400	Topics in Zoology	annually	1	
Zool199	Directed study for freshmen/sophomore	annually	1-3	Research mentoring

[#]offered every other year

C. Mentor teaching: Chronological list of graduate students advised by name, degree, year finished, position post-graduation or current, if known. Include current students by target degree and program.

C. 1. Students and postdoctoral associates trained: 58 since 1985

GRADUATE STUDENTS - 43

Name	Degree	Program	Year	Organizational affiliation post graduation
Michael Meyer	Ph.D.	Wildlife Ecology	1989	Wisconsin Department of Natural Resources ecotoxicologist
Lisa Ellner	M.S.	Wildlife Ecology	1989	
Jill Larson	M.S.	METC ¹	1991	Northeast Technical College, Green Bay
Chris Guglielmo	M.S.	Wildlife Ecology	1993	Current- Professor of Biology, Western University, Ontario, Canada
Daniel Afik	Ph.D.	Wildlife Ecology	1994	University of Washington, Seattle, University of Haifa, Israel
Nancy Yorinks	M.S.	Zoology	1994	School of Veterinary Medicine, UW-Madison
Cheryl Dykstra	M.S., Ph.D.	Wildlife Ecology	1991 1994	USFWS ecotoxicologist

¹ METC = Molecular and Environmental Toxicology

Conrad Vispo	Ph.D.	Wildlife Ecology	1995	Director of Instituto de Investigaciones Ecologicas Orinoco in Venezuela
Robin Jung	Ph.D.	Zoology	1996	Employed by Biological Sciences Division of USGS
James Woodford	M.S.	Wildlife Ecology	1996	Wisconsin Department of Natural Resources
Eric Huang	Ph.D.	Zoology	1998	Professor - Missouri University of Technology and Science
Chris Lepczyk	M.S.	Wildlife Ecology	1996	Current – Professor, University of Hawaii
Antonio Mangione	Ph.D.	Wildlife Ecology	1999	Current – Faculty, University of San Luis, Argentina
Michele Rosenshield	M.S.	Zoology	1999	Faculty at college preparatory school in Seattle, WA
John Allran	M.S.	METC	1999	Pesticides Division of North Carolina Dept. of Agriculture
Tara Edblom (Bergeson)	M.S.	Wildlife Ecology	2001	Wisconsin Department of Natural Resources
Lisa Koch	M.S.	Zoology	2001	Turner Foundation Inc, Institute for Georgia Environmental Leadership
Min-Hwang Chang	Ph.D.	Zoology	2002	Research faculty Mayo Clinic, Rochester, MN
Michele Skopec	Ph.D.	Nutrition	2003	Faculty Weber State University, Ogden, UT
Adam Green	Ph.D.	Wildlife Ecology	2004	Faculty Santa Barbara City College, CA
Mariana Jofre	Ph.D. ¹	Biochemistry	2005	Faculty University of San Luis, Argentina
Jackson Gross	Ph.D.	Animal Science	2006	Faculty University of California, Davis
Te Hao Chen	Ph.D.	Wildlife Ecology	2006	Director, Department of Biology National Museum of Marine Biology and Aquarium, Taiwan
Shana Lavin	Ph.D.	Wildlife Ecology	2007	DisneyWorld Animal Kingdom (Animal Physiology Laboratory)
James Burnham	M.S.	IES	2007	International Crane Foundation; currently PhD student
Carol Fassbinder-Orth	Ph.D.	Zoology	2008	Faculty Creighton University, Lincoln NE
Sam Meier	M.S.	Wildlife Ecology	2010	
Jian-Nan Liu	Ph.D.	Wildlife Ecology	2011	Faculty National Chiayi University, Taiwan
Jeff Lorch	Ph.D.	METC ³	2012	National Wildlife Health Center, Madison
Tawnya Cary	Ph.D.	Zoology	2013	Faculty Beloit College
Tess Killpack	Ph.D.	Zoology	2013	Faculty Salem State University, Salem, MA
Heidi Bissell	Ph.D.	Zoology	2014	Busch Zoological Gardens (Director of Nutrition Dept.)
Zach DeQuattro	Ph.D.	Zoology	2016	
Katie Rott	M.S.	Zoology	2016	Biomedical research asst; Portland OR

Jeremiah Yahn	Ph.D.	Zoology	2016	Univ. Wisconsin-Madison, Integrative Biology, Asst. Faculty Associate
Elena Doucet-Beer ²	Ph.D.	Zoology	2017	Univ. Wisconsin-Madison, Dept. Forest and Wildlife Ecology, Instructor
Emily Cornelius	Ph.D.	Wildlife Ecology	2017	Université de Québec à Rimouski (UQAR)
Ying-Tang (Cherry) Tsai	Ph.D.	METC	2018	State Police of New York, Forensic Toxicologist
Luping Wang	M.S.	Wildlife Ecology	2018	Univ. Wisconsin-Madison, Dept. Forest and Wildlife Ecology, PhD graduate student
Gavin Dehnert	Ph.D.	Integrative Biology	2020	Univ. Wisconsin-Madison, Water Resources Institute, postdoctoral associate
Yushi Oguchi	Ph.D.	Wildlife Ecology	Current	
Barcelo, Gonzalo ²	Ph.D.	Wildlife Ecology	Current	
Cozzola, Angelo	M.S.	Integrative Biology	Current	

¹at Univ. San Luis; Karasov was joint advisor

²joint advisor with Professors Zach Peery (Doucet-Beer) or Jon Pauli (Barcelo)

³METC = Molecular and Environmental Toxicology Center

C.2. POST-DOCTORAL SCHOLARS SPONSORED - 18

Name	Years	Subsequent position(s)
Douglas Levey	1986	Formerly Professor University of FL, Gainesville; currently National Science Foundation
James Munger	1986-1987	Professor and Chair, Boise State University
Wally Jakubas	1990-1993	Formerly faculty Southern Illinois University; currently Maine Division of Wildlife
Enrique Caviedes-Vidal	1992-1994	Professor, University of San Luis, Argentina; Associate Scientist, University of Wisconsin-Madison
Scott McWilliams	1994-1998	Professor, University of Rhode Island
Denise Dearing	1996-1998	Professor and Chair, University of Utah, Salt Lake City
I. Kati Loeffler	1998-1999	Smithsonian National Zoological Park
Francois Fournier	1998-2000	Faculty at Universite de Moncton
Kate LeVering	1999-2002	
Todd McWhorter	2003-2006	Faculty at University of Adelaide, Australia
Chris Tracy	2004-2005	Faculty at California State University; currently Univ. California Reserves
Manuel E. Ortiz Santaliestra	2008-2010	Faculty at Instituto de Investigación en Recursos Cinegéticos, Spain
Bradley Bakken	2008-2009	Ecological Genomics Institute and Division of Biology, Kansas State University
Pavel Brzek	2007-	Faculty at University of Białystok, Poland

	2009	
Edwin Price	2010-2014	Postdoc & adjunct faculty at University of North Texas
Nelly Rodriguez	2012-2013	Postdoc National Institute of Nutrition, Mexico City, Mexico
Mariella Freitas	2013-2015	Associate Professor and Chair, Federal University of Viçosa, MG, Brazil
Antonio Brun	2016-2018	Instructor, University of San Luis, Argentina

D. Supporting Documentation (related to teaching) - None

1. Publications (not included elsewhere)
2. Invited presentations
3. Grants and awards

E. Undergraduate Advisees

Dr. Karasov serves as academic advisor for 5-15 undergraduates in the Wildlife Ecology major each year. At least once each semester he meets with his advisees for 15-30 minutes to discuss their academic progress and anticipated courses in relation to their goals at the University and beyond.

III. Research

A. Publications

Papers published in, or accepted by, refereed journals

Journals

1. Anderson, R. A., and W. H. Karasov (1981) Contrasts in energy intake and expenditure in sit-and-wait and widely foraging lizards. *Oecologia* 49:67-72.
2. Karasov, W. H. (1981) Daily energy expenditure and the cost of activity in a free-living mammal. *Oecologia* 51:253-259.
3. Karasov, W. H. (1982) Energy assimilation, nitrogen requirement, and diet in free-living antelope ground squirrels, *Ammospermophilus leucurus*. *Physiological Zoology* 55:378-392.
4. Karasov, W. H. (1983) Water flux and water requirement in free-living antelope ground squirrels, *Ammospermophilus leucurus*. *Physiological Zoology* 56:94-105.
5. Karasov, W. H. (1983) Wintertime energy conservation by huddling in antelope ground squirrels, *Ammospermophilus leucurus*. *Journal of Mammalogy* 64:341-345.
6. Karasov, W. H., and J. M. Diamond (1983) A simple method for measuring intestinal solute uptake in vitro. *Journal of Comparative Physiology* 152:105-116.
7. Karasov, W. H., and J. M. Diamond (1983) Adaptive regulation of sugar and amino acid transport by vertebrate intestine. *American Journal of Physiology* 245:G443-462.
8. Karasov, W. H., R. S. Pond III, D. H. Solberg, and J. M. Diamond (1983) Regulation of proline and glucose transport in mouse intestine by dietary substrate levels. *Proceedings of the National Academy of Science, USA* 80:7674-7677.
9. Karasov, W. H., and R. A. Anderson (1984) Interhabitat differences in energy acquisition and expenditure in a lizard. *Ecology* 65:235-247.
10. Diamond, J. M., and W. H. Karasov (1984) Effect of dietary carbohydrate on monosaccharide uptake by mouse small intestine in vitro. *Journal of Physiology* 349:419-440.
11. Karasov, W. H. (1985) Nutrient constraints in the feeding ecology of an omnivore in a seasonal environment. *Oecologia* 66:280-290.
12. Karasov, W. H., and J. M. Diamond (1985) Digestive adaptations for fueling the cost of endothermy. *Science* 228:202-204.
13. Karasov, W. H., D. H. Solberg, and J. M. Diamond (1985) What transport adaptations enable mammals to absorb sugars and amino acids faster than reptiles? *American Journal of Physiology* 249:G271-283.
14. Karasov, W. H., D. H. Solberg, S. D. Chang, E. D. Stein, M. Hughes, and J. M. Diamond (1985) Is intestinal transport of sugars and amino acids subject to critical-period programming? *American Journal of Physiology* 249:G770-785.
15. Diamond, J. M., W. H. Karasov, D. Phan, and F. L. Carpenter (1986) Hummingbird digestive physiology, a determinant of foraging bout frequency. *Nature* 320:62-63.

16. Karasov, W. H., E. Petrossian, L. Rosenberg, and J. M. Diamond (1986) How do food passage rate and assimilation differ between herbivorous lizards and nonruminant mammals? *Journal of Comparative Physiology* 156:599-609.
17. Karasov, W. H., D. Phan, J. M. Diamond, and F. L. Carpenter (1986) Food passage and intestinal nutrient absorption in hummingbirds. *Auk* 103:453-464.
18. Karasov, W. H., D. Solberg, S. Carter, M. Hughes, D. Phan, F. Zollman, and J. M. Diamond (1986) Uptake pathways for amino acids in mouse intestine. *American Journal of Physiology* 251:G501-G508.
19. Karasov, W. H. (1986) Energetics, physiology, and vertebrate ecology. *Trends in Ecology and Evolution* 1:101-104.
20. Karasov, W. H., D. H. Solberg, and J. M. Diamond (1987) Dependence of intestinal amino acid uptake on dietary protein or amino acid levels. *American Journal of Physiology* 252:G614-G625.
21. Karasov, W. H., and E. S. Debnam (1987) Rapid adaptation of intestinal glucose transport: a brush-border or basolateral phenomenon? *American Journal of Physiology* 253:G54-61.
22. Diamond, J. M., and W. H. Karasov (1987) Adaptive regulation of intestinal nutrient transporters. *Proceedings of the National Academy of Science* 84:2242-2245. USA.
23. Anderson, R. A., and W. H. Karasov (1988) Energetics of reproduction in a wide foraging lizard, *Cnemidophorus tigris*, and life history consequences of food acquisition mode. *Ecological Monographs* 58:79-110.
24. Karasov, W. H., L. R. Han, and J. C. Munger (1988) Measurement of D₂O by infrared absorbance in doubly labeled water studies of energy expenditure. *American Journal of Physiology* 255:R174-177.
25. Debnam, E. S., W. H. Karasov, and C. S. Thompson (1988) Nutrient uptake by rat enterocytes during diabetes mellitus: Evidence for an increased sodium electrochemical gradient. *Journal of Physiology (London)* 397:503-512.
26. Karasov, W. H., and J. M. Diamond (1988) Interplay between physiology and ecology in digestion. *BioScience* 38(9):602-611.
27. Martinez del Rio, C., W. H. Karasov, and D. J. Levey (1989) Physiological basis and ecological consequences of sugar preferences in cedar waxwings. *Auk* 106:64-71.
28. Munger, J. C., and W. H. Karasov (1989) Sublethal parasites and host energy budgets: Tapeworm infection in white-footed mice. *Ecology* 70:904-921.
29. Meyer, M., and W. H. Karasov (1989) Antiherbivore chemistry of *Larrea tridentata*: Effects on desert woodrat (*Neotoma lepida*) feeding and nutrition. *Ecology* 70:953-961.
30. Levey, D. J., and W. H. Karasov (1989) Digestive responses of temperate birds switching to fruit and insect diets. *Auk* 106:675-686.
31. Munger, J. C., W. H. Karasov, and D. Chang (1989) Host genetics as a cause of overdispersion of parasites among hosts: How general a phenomenon? *Journal of Parasitology* 75(5):707-710.

32. Karasov, W. H. (1989) Nutritional bottleneck in an herbivore, the Desert Woodrat (*Neotoma lepida*). *Physiological Zoology* 62(6):1351-1382.
33. Martinez del Rio, C., and W. H. Karasov (1990) Digestion strategies in nectar- and fruit-eating birds and the sugar composition of plant rewards. *American Naturalist* 136:618-637.
34. Karasov, W. H., and D. J. Levey (1990) Digestive system tradeoffs and adaptations of frugivorous birds. *Physiological Zoology* 63:1248-1270.
35. Munger, J. C., and W. H. Karasov (1991) Sublethal parasites in White-footed Mice: Impact on survival and reproduction. *Canadian Journal of Zoology* 69:398-404.
36. Karasov, W. H., B. W. Darken, and M. C. Bottum (1991) Dietary regulation of intestinal ascorbate uptake in guinea pigs. *American Journal of Physiology* 260:G108-118.
37. Titus, E., W. H. Karasov, and G. A. Ahearn (1991) Dietary modulation of intestinal nutrient transport in the teleost fish tilapia. *American Journal of Physiology* 261:R1568-1574.
38. Karasov, W. H., M. C. Brittingham, and S. A. Temple (1992) Daily energy expenditure by Black-capped Chickadees (*Parus atricapillus*) during winter. *Auk* 109:393-394.
39. Karasov, W. H. (1992) Daily energy expenditure and the cost of activity in mammals. *American Zoologist* 32:238-248.
40. Dykstra, C. J., and W. H. Karasov (1992) Changes in House Wren gut structure and function in response to increased energy demands. *Physiological Zoology* 65:422-442.
41. Karasov, W. H., M. W. Meyer, and B. W. Darken (1992) Tannic acid inhibition of amino acid and sugar absorption by mouse and vole intestine: Tests following acute and subchronic exposure. *Journal of Chemical Ecology* 18:719-736.
42. Levey, D. J., and W. H. Karasov (1992) Digestive modulation in a seasonal frugivore, the American Robin (*Turdus migratorius*). *American Journal of Physiology* 262:G711-G718.
43. Karasov, W. H. (1992) Tests of the adaptive modulation hypothesis for dietary control of intestinal nutrient transport. *American Journal of Physiology* 263:R496-502.
44. Ellner, L. R., and W. H. Karasov (1993) Latitudinal variation in the thermal biology of ornate box turtles. *Copeia* 1993(2):447-455.
45. Nosek, J. A., S. R. Craven, W. H. Karasov, and R. E. Peterson (1993) 2,3,7,8-Tetrachlorodibenzo-p-dioxin in terrestrial environments: Implications for resource management. *Wildlife Society Bulletin* 21:179-187.
46. Dykstra, C. R., and W. H. Karasov (1993) Nesting energetics of House Wrens (*Troglodytes aedon*) in relation to maximal rates of energy flow. *Auk* 110:481-491.
47. Hume, I. D., W. H. Karasov, and B. W. Darken (1993) Acetate, butyrate, glucose and proline uptake in the caecum and colon of prairie voles (*Microtus ochrogaster*). *Journal of Experimental Biology* 176:285-297.

48. Guglielmo, C. G., and W. H. Karasov (1993) Endogenous losses of mass and energy in Ruffed Grouse. *Auk* 110:386-390.
49. Jakubas, W. J., W. H. Karasov, and C. G. Guglielmo (1993) Coniferyl benzoate in quaking aspen: Its effect on energy and nitrogen digestion and retention in ruffed grouse. *Physiological Zoology* 66:580-601.
50. Jakubas, W. J., W. H. Karasov, and C. G. Guglielmo (1993) Ruffed grouse tolerance and biotransformation of the plant secondary metabolite coniferyl benzoate. *Condor* 95:625-640.
51. Jakubas, W. J., B. C. Wentworth, and W. H. Karasov (1993) Physiological and behavioral effects of coniferyl benzoate on avian reproduction. *Journal of Chemical Ecology* 19:2353-2377.
52. Karasov, W. H. (1993) In the belly of the bird. *Natural History* 102:32-37.
53. Dykstra, C. R., and W. H. Karasov (1993) Daily energy expenditure by nestling house wrens (*Troglodytes aedon*). *Condor* 95:1028-1030.
54. Munger, J. C., and W. H. Karasov (1994) Costs of bot fly infection in white-footed mice: Energy and mass flow. *Canadian Journal of Zoology* 72:166-173.
55. Karasov, W. H., and S. J. Cork (1994) Glucose absorption by a nectarivorous bird: The passive pathway is paramount. *American Journal of Physiology* 267:G18-G26.
56. Levey, D. J., and W. H. Karasov (1994) Gut passage of insects by European starlings and a comparison with other species. *The Auk* 111:478-481.
57. Guglielmo, C. G., and W. H. Karasov (1995) Nutritional quality of winter browse for Ruffed Grouse. *Journal of Wildlife Management* 59:427-436.
58. Afik, D. and W. H. Karasov (1995) Tradeoffs between digestion rate and efficiency in Yellow-rumped Warblers, and their ecological and evolutionary implications. *Ecology* 76:2247-2257.
59. Afik, D., E. Caviedes-Vidal, C. Martinez del Rio, and W. H. Karasov (1995) Dietary modulation of intestinal hydrolytic enzymes in Yellow-rumped Warblers. *American Journal of Physiology* 269:R413-R420.
60. Jakubas, W. J., C. G. Guglielmo, C. Vispo, and W. H. Karasov (1995). Sodium balance in ruffed grouse as influenced by sodium levels and plant secondary metabolites in quaking aspen. *Canadian Journal of Zoology* 73:1106-1114.
61. Karasov, W. H., and S. J. Cork (1996) Test of a reactor-based digestion optimization model for nectar-eating Rainbow Lorikeets. *Physiological Zoology* 69:117-138.
62. Karasov, W. H., D. Afik, and B. W. Darken (1996) Do Northern Bobwhite quail modulate intestinal nutrient absorption in response to dietary change? A test of an adaptational hypothesis. *Comparative Biochemistry and Physiology*:113A:233-238.
63. Caviedes-Vidal, E., and W. H. Karasov (1996). Glucose and amino acid absorption in House Sparrow intestine and its dietary modulation. *American Journal of Physiology* 271:R561-R568.

64. Covell, D. F., D. S. Miller, and W. H. Karasov. (1996) Cost of locomotion and daily energy expenditure by free-living swift foxes (*Vulpes velox*): A seasonal comparison. *Canadian Journal of Zoology* 74:283-290.
65. Larson, J. M., J. P. Giesy, B. Handbridge, W. H. Karasov, L. Sileo, and K. Stromborg (1996). Reproductive success, developmental anomalies, and environmental contaminants in double-crested cormorants (*Phalacrocorax auritus*). *Environmental Toxicology and Chemistry* 15:553-559.
66. Guglielmo, C., W. H. Karasov, and W. J. Jakubas (1996). Nutritional costs of a plant secondary metabolite explain selective foraging by ruffed grouse. *Ecology* 77:1103-1115.
67. Dykstra, C. R., M. W. Meyer, and W. H. Karasov (1997). Validation of the doubly-labeled-water method in bald eagles and a comparison of two equations for the calculation of energy expenditure. *Physiological Zoology* 70:19-26.
68. Afik, D., B. W. Darken, and W. H. Karasov (1997) Is diet-shifting facilitated by modulation of intestinal nutrient uptake? Test of an adaptational hypothesis in yellow-rumped warblers. *Physiological Zoology* 70:213-221.
69. Afik, D., S. R. McWilliams, and W. H. Karasov (1997) Test for passive absorption of glucose in yellow-rumped warblers, and its ecological implications. *Physiological Zoology* 70:370-377.
70. Weiser, J. I., A. Porth, D. Mertens, and W. H. Karasov (1997) Digestion of chitin by Northern Bobwhites (*Colinus virginianus*) and American Robins (*Turdus migratorius*). *The Condor* 99:553-556.
71. Karasov, W. H. and R. A. Anderson (1998) Correlates of variation in average daily metabolism of field-active zebra-tailed lizards (*Callisaurus draconoides*). *Physiological Zoology* 71:93-105.
72. Dykstra, C. R., M. W. Meyer, D. K. Warnke, W. H. Karasov, D. E. Anderson, W. W. Bowerman, IV, and J. P. Giesy (1998). Low reproductive rates of Lake Superior Bald Eagles: low food delivery rates or environmental contaminants? *Journal of Great Lakes Research* 24:32-44.
73. Woodford, J.E., W.H. Karasov, M.W. Meyer and L. Chambers (1998) Impact of 2,3,7,8-TCDD exposure on survival, growth, and behavior of ospreys breeding in Wisconsin, USA. *Environmental Toxicology and Chemistry* 17:1323-1331.
74. Huang, Y.W., M.J. Melancon, R.E. Jung, and W.H. Karasov (1998) Induction of cytochrome P450-associated monooxygenases in northern leopard frogs, *Rana pipiens*, by 3,3',4,4',5-pentachlorobiphenyl (PCB 126). *Environmental Toxicology and Chemistry* 17:1564-1569.
75. Karasov, W.H. and B. Pinshow (1998) Changes in lean mass and in organs of nutrient assimilation in a long-distance migrant at a springtime stopover site. *Physiological Zoology* 71(4):435-448.
76. McWilliams, S. R. and W. H. Karasov (1998) Do variable-reward feeding schedules affect digestive performance of migratory birds? *Oecologia* 114:160-169.
77. Dearing, M.D., A.M. Mangione, W.H. Karasov, S. Morzunov, E. Otteson, and S.St. Jeor. (1998) Prevalence of Hanta virus in four species of *Neotoma* from Arizona and Utah. *Journal of Mammalogy* 79:1254-1259.

78. McWilliams, S.R. and W.H. Karasov (1998) Test of a digestion optimization model: effects of costs of feeding on digestive parameters. *Physiological Zoology* 71:168-178
79. Lepczyk, C. M., Caviedes-Vidal, E., and Karasov, W. H. (1998) Digestive responses during food restriction and realimentation in nestling house sparrows (*Passer domesticus*). *Physiological Zoology* 71:561-573.
80. McWilliams, S.R., E. Caviedes-Vidal, and W.H. Karasov (1999) Digestive adjustments in Cedar Waxwings to high feeding rate. *Journal of Experimental Zoology* 283:394-407.
81. Jofre, M.B. and W.H. Karasov (1999). The direct effect of ammonia on three species of North American anuran amphibians. *Environmental Toxicology and Chemistry* 18:1806-1812.
82. Huang, Y.W., W.H. Karasov, K.P. Patnode, and C.R. Jefcoate (1999). Exposure of northern leopard frogs in the Green Bay ecosystem to polychlorinated biphenyls, polychlorinated dibenzo-*p*-dioxins, and polychlorinated dibenzofurans is measured by direct chemistry but not hepatic ethoxyresorufin-*O*-deethylase activity. *Environmental Toxicology and Chemistry* 18:2123-2130.
83. Rosenshield, M.L., M.B. Jofre, and W.H. Karasov (1999). Effects of PCB 126 on green frog (*Rana clamitans*) and leopard frog (*Rana pipiens*) hatching success, development, and metamorphosis. *Environmental Toxicology and Chemistry* 18:2478-2486.
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9. Technical reports and other publications

10. Patents