

CURRICULUM VITAE

Bernd Heinrich

2017

bheinrich153@gmail.com

EDUCATION

B.A. (Zoology) 1964 University of Maine, Orono

M.S. (Zoology) 1966 University of Maine, Orono

Ph.D. (Zoology) 1970 University of California, Los Angeles
(awarded "with distinction")

Postdoctoral 1970 University of California, Los Angeles

HONORS

Guggenheim Fellow, 1976-77

Harvard Fellow, 1976-77

University of Vermont Scholar in the Biological Sciences, 1985

Alexander von Humboldt Senior Scientist Fellowship Award, 1988-89 (Federal Republic of Germany)

Lady Davis Fellowship (Jerusalem, Israel) 1992

L.L. Winship Book Award (For In a Patch of Fireweed), 1984.

Burroughs Writing Award (For An Owl in the House), ~ 1991.

Rutstrom Authorship Award for Conservation and Environmental Writing
(For A Year in the Maine Woods), 1996.

Sigma Xi Lecturer, 1995-1997

Outstanding Science Trade Book for Children (By Children's Books Council)

Member Vermont Academy of Science and Engineering-1997.

Member Vermont Academy of Arts and Sciences- 1998.

Franklin Fairbanks Award for Contributions of Vermont Culture- 1997.

New England Bookseller's Award for Nonfiction for 1998.

John Burroughs Medal for Nature Writing, for Mind of the Raven- 2000

Honorary Doctorate, University of Maine, Farmington – 1999

Honorary Master of Philosophy & Human Biology – College of the Atlantic, 2006

Honorary Doctorate, Unity College, Maine 1986 and-2000!

Honorary Doctorate of Humane Letters, St. Michaels College, 2008

American Academy of Arts and Sciences. 2004.

Maine Running Hall of Fame, 1996.

Maine Sportsmen's Hall of Fame, 2000.

American Ultra-running Hall of Fame, 2008.

Sterling College Presidential Stewardship Award, 2014.

University of Maine Achievement Award, 2014

Pen New England Book Award for non-fiction, for Life Everlasting- 2013.

John Burroughs Nature Essay Award, for Chickadees in Winter- 2016

Art Exhibits: "The Naturalist as Artist: the Artist as Naturalist". Fleming Museum, Burlington, VT. 2004, and the L C Bates Museum , Good Will- Hinckley School in Fairfield, Maine. 2005.

Fellow, American Entomological Society, 2017

TEACHING EXPERIENCE

Assistant Professor, University of California, Berkeley, 1971-75

Associate Prof. UC Berkeley, 1975-1977

Professor of Entomology, University of California, Berkeley, 1978-1981

Professor of Biology, University of Vermont, 1981-2003

Professor Emeritus, University of Vermont 2004-

2017, still teaching Winter Ecology for University of Vermont

Research Associate, Bowdoin College, 2017-

RESEARCH PUBLICATIONS

- Heinrich B. 1961. Weasels in Farmington. *Maine Field Naturalist* 17:24-25.
- Cook, J.R. and B. Heinrich. 1965. Glucose vs. acetate metabolism in *Euglena*. *J. Protozoology* 12:581-584.
- Heinrich, B. and J. R. Cook. 1967. Studies on the respiratory physiology of *Euglena gracilis* cultured on acetate or glucose. *J. Protozoology*. 14:548-553
- Cook, J. R. and B. Heinrich. 1968. Unbalanced respiratory growth of *Euglena*. *J. Gen.Microbiol.* 53:237-251.
- Heinrich, B. 1970. Thoracic temperature stabilization in a free-flying moth. *Science* 168: 580-582.
- Heinrich, B. 1970. Nervous control of the heart during thoracic temperature regulation in a sphinx moth. *Science* 169:606-607.
- Heinrich, B. 1971. The effect of leaf geometry on the feeding behavior of the caterpillar of *Manduca sexta* (Sphingidae). *Anim. Behaviour* 19:119-124.
- Heinrich, B. 1971. Temperature regulation of the sphinx moth, *Manduca sexta*. I. Flight energetics and body temperature during free and tethered flight. *J. Exp. Biol.* 54: 141-152.
- Heinrich, R. 1971. Temperature regulation of the sphinx moth, *Manduca sexta*. II. Regulation of heat loss by control of blood circulation. *J. Exp. Biol.* 54:153-166.
- Heinrich, B. and G. A. Bartholomew. 1971. An analysis of preflight warm-up in the sphinx moth, *Manduca sexta*. *J. Exp. Biol.* 55:223-239.
- Heinrich, B. 1972. Temperature regulation in bumblebees, *Bombus vagans*: a field study. *Science* 175:185-187.
- Heinrich, B. 1972. Energetics of temperature regulation and foraging in a bumblebee, *Bombus terricola* Kirby. *J. Comp. Physiol.* 77:49-64.
- Heinrich, B. 1972. Patterns of endothermy in bumblebee queens, drones and workers. *J. Comp. Physiol.* 77:65-79.
- Heinrich, B. and P. H. Raven. 1972. Energetics and pollination ecology. *Science* 176:597-602.
- Kammer, A. E. and B. Heinrich. 1972. Neural control of bumblebee fibrillar muscles during shivering. *J. Comp. Physiol.* 78:337-345.
- Heinrich, B. 1972. Thoracic temperature of butterflies in the field near the equator. *Comp. Biochem. Physiol.* 43A:459-467.
- Heinrich, B. 1972. Physiology of brood incubation in the bumblebee queen, *Bombus vosnesenskii*. *Nature* 239:223-225.
- Heinrich, B. and T. M. Casey. 1973. Metabolic rate and endothermy in sphinx moths. *J. Comp. Physiol.* 82:195-206.
- Bartholomew, G. A. and B. Heinrich. 1973. A field study of flight temperature in moths in relation to body weight and wing loading. *J. Exp. Biol.* 58:123-135.
- Heinrich, B. and A. Kammer. 1973. Activation of the fibrillar muscles in the bumblebee during warm-up, stabilization of thoracic temperature and flight. *J. Exp. Biol.* 58:677-688.
- Heinrich, B. 1974. Thermoregulation in bumblebees. I. Brood incubation by *Bombus vosnesenskii* queens. *J. Comp. Physiol.* 88:129-140.
- Heinrich, B. 1974. Pheromone induced brooding behavior in *Bombus vosnesenskii* and *B. edwardsii* (Hymenoptera: Bombidae). *J. Kansas Ent. Soc.* 47:396-404.
- Heinrich, B. 1974. Thermoregulation in endothermic insects. *Science* 185:747-756.
- Kammer, A. E. and B. Heinrich. 1974. Metabolic rates related to muscle activity in

- bumblebees. *J. Exp. Biol.* 61:219-227.
- Heinrich, B. 1975. Thermoregulation in bumblebees. II. Energetics of warm-up and free flight. *J. Comp. Physiol.* 96:155-166.
- Heinrich, B. and C. Pantle. 1975. Thermoregulation in small flies (*Syrphus* sp.): Basking and shivering. *J. Exp. Biol.* 62:599-610.
- Heinrich, B. 1975. Bee flowers: A hypothesis on flower variety and blooming times. *Evolution* 29:325-334.
- Heinrich, B. 1975. Energetics of pollination. *Ann. Rev. Ecol. & Syst.* 6:139-170.
- Heinrich, B. 1976. Foraging specializations of individual bumblebees. *Ecol. Mon.* 46:105-128.
- Oster, G. and B. Heinrich. 1976. Why do bumblebees "major"? A mathematical model. *Ecol. Mon.* 46:128-133.
- Heinrich, B. 1976. Heat exchange in relation to blood flow between thorax and abdomen in bumblebees. *J. Exp. Biol.* 64:561-585.
- Heinrich, B. 1976. Resource partitioning among some eusocial insects: Bumblebees. *Ecol.* 57: 874-889.
- Heinrich, B. 1976. Flowering phenologies: bog, woodland, and disturbed habitats. *Ecol.* 57: 890-899.
- Heinrich, B. 1977. Why have some animals evolved to regulate a high body temperature? *Am. Naturalist.* 111:623-640.
- Heinrich, B., P. Mudge, and P. Deringis. 1977. A laboratory analysis of flower constancy in foraging bumblebees: *Bombus ternarius* and *B. terricola*. *Behav. Ecol. and Sociobiol.* 2:247-266.
- Bartholomew, G. and B. Heinrich. 1978. Endothermy in African dung beetles during flight, ball making, and ball rolling. *J. Exp. Biol.* 73:65-83.
- Heinrich, B. and T. M. Casey. 1978. Heat transfer in dragonflies: 'Fliers' and 'perchers'. *J. Exp. Biol.* 74:17-36.
- Heinrich, B. and G. A. Bartholomew. 1978. Roles of endothermy and size in inter- and intraspecific competition for elephant dung in an African dung beetle, *Scarabaeus laevistriatus*. *Physiol. Zool.* 52:484-494.
- Allen, T. S., S. Cameron, R. McGinley, and B. Heinrich. 1978. The role of workers and new queens in the ergonomics of a bumblebee colony: Hymenoptera: Apoidea). *J. Kansas Entomological Soc.* 51(3):329-342.
- Heinrich, B. 1979. Resource heterogeneity and patterns of foraging in bumblebees. *Oecologia* 140:235-245.
- Heinrich, B. 1979. "Majoring" and "minoring" by foraging bumblebees, *Bombus vagans*: An experimental analysis. *Ecology* 60:245-255.
- Waddington, K. D. and B. Heinrich. 1979. The foraging movements of bumblebees on vertical "inflorescences": An experimental analysis. *J. Comp. Physiol.* 134:113-117.
- Heinrich, B. 1979. Thermoregulation of African and European honeybees during foraging, attack, and hive exits and returns. *J. Exp. Biol.* 80:217-229.
- Heinrich, B. 1979. Keeping a cool head: Thermoregulation in honeybees. *Science* 205: 269-271.
- Heinrich, B. 1979. Foraging strategies of caterpillars: Leaf damage and possible predator avoidance strategies. *Oecologia* 40:325-337.
- Heinrich, B. 1980. Mechanisms of body temperature regulation in honeybees, *Apis mellifera*. I. Regulation of head temperature. *J. Exp. Biol.* 85:61-67.

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- Heinrich, B. and D. Vogt. 1980. Aggregation and foraging behavior of whirligig beetles (Coleoptera: Gyrinidae). Behav. Ecol. & Sociobiol. 7:179-186.
- Heinrich, B. 1981. The mechanisms and energetics of honeybee swarm temperature regulation. J. Exp. Biol. 91:25-55.
- Heinrich, B. 1981. Energetics of honeybee swarm thermoregulation. Science 212:565-566.
- Waddington, K. D., T. Allen, and B. Heinrich. 1981. Floral preferences of bumblebees (Bombus edwardsii) in relation to variable vs. constant rewards. Animal Behaviour 29:779-784.
- Heinrich, B. 1981. The energetics of pollination. Ann. Miss. Bot. Garden 68:370-378.
- Heinrich, B. and S. L. Collins. 1983. Caterpillar leaf damage and the game of hide-and-seek with birds. Ecology 64:592-602.
- Vogt, F. D. and B. Heinrich. 1983. Thoracic temperature variations in the onset of flight in dragonflies (Odonata: Anisoptera). Physiol. Zool. 56:236-241.
- Heinrich, B. 1983. Do bumblebees forage optimally, and does it matter? Am. Zool. 23: 273-281.
- Heinrich, B. and M. Heinrich. 1983. Size and caste in temperature regulation by bumblebees. Physiol. Zool. 56:552-562.
- Heinrich, B. and M. Heinrich. 1983. Torpor in foraging workers and drones of the bumblebee, Bombus terricola. Physiol. Zool. 56:563-567.
- Heinrich, B. 1984. Strategies of thermoregulation and foraging in two wasps, Dolichovespula maculata and Vespula vulgaris. J. Comp. Physiol. B. 154:175-180.
- Heinrich, B. and M. Heinrich. 1984. The pit-trapping foraging strategy of the ant lion, Myrmeleon immaculatus DeGeer (Neuroptera: Myrmeleontidae) Behav. Ecol. & Sociobiol. 14:151-160.
- Real, R. G., Ianazzi, R., Kamil, A. C. and B. Heinrich. 1984. Discrimination and generalization of leaf damage by blue jays (Cyanocitta cristata). Animal Learning and Behavior 12:202-208.
- Heinrich, B. and T. P. Mommsen. 1985. Flight of winter moths near 0°C. Science 228: 177-179.
- Heinrich, B. 1985. Men vs. Women, Marathoners vs. Ultramarathoners. Ultrarunning Jan. - Feb. 1985.
- Heinrich, B. and S. L. Buchmann. 1986. Thermoregulatory physiology of the carpenter bee, Xylocopa varipunctata. J. Comp. Physiol. B 156:557-562.
- Heinrich, B. 1986. Thermoregulation and flight activity of the satyr, Coenonympha inornata (Lepidoptera:Satyridae). Ecology 67:593-597.
- Heinrich, B. and E. McClain. 1986. "Laziness" and hypothermia as a foraging strategy in flower scarabs (Coleoptera:Scarabaeidae). Physiol. Zool. 59:273-282.
- Heinrich B. 1986. Comparative thermoregulation of four montane butterflies of different mass. Physiol. Zool. 59:616-626.
- Heinrich, B. 1987. Thermoregulation by winter-flying endothermic moths. J. Exp. Biol. 127: 313-332.
- Morgan, K. and B. Heinrich. 1987. Temperature regulation in bee- and wasp-mimicking syrphid flies. J. Exp. Biol. 133:59-71.
- Heinrich, B. 1988. Why do ravens fear their food? Condor 90:950-952.

- Kukal, O., B. Heinrich and J. Duman. 1988. Behavioral thermoregulation in the freeze-tolerant Arctic caterpillar, Gynaephora groenlandica. J. Exp. Biol. 138:181-193.
- Heinrich, B. 1988. Raven tool use? Condor 90:270-271.
- Heinrich, B. 1988. Winter foraging at carcasses by three sympatric corvids, with emphasis on recruitment by the raven, Corvus corax. Behav. Ecol. & Sociobiol. 23:141-156.
- Heinrich, B. 1989. Beating the heat in obligate insect endotherms: The non-organismal problem and the organismal solution. Am. Zool. 29:1157-1168.
- Heinrich, B. 1990. Is "Reflectance" basking real? J. Exp. Biol. 154:31-43.
- Heinrich, B. and J. Marzluff. 1991. Do common ravens yell because they want to attract others? Behav. Ecol. & Sociobiol. 28:13-21.
- Esch, H., F. Goller and B. Heinrich. 1991. How do bees shiver? Naturwissenschaften 78:325-328.
- Marzluff, J. and B. Heinrich. 1991. Foraging by common ravens in the presence and absence of territory holders: an experimental analysis of social foraging. Anim. Behav. 42:755-770.
- Heinrich, B. 1992. Maple sugaring by red squirrels. J. Mammal. 73:51-54.
- Heinrich, B. and J. M. Marzluff. 1992. Age and mouth color in Common Ravens, Corvus corax. Condor 94:549-550.
- Heinrich, B. and J. M. and C. S. Marzluff. 1993. Ravens are attracted to the appeasement calls of discoverers when they are attacked at defended food. The Auk 110:247-254.
- Heinrich, B. and D. F. Vogt. 1993. Abdominal temperature regulation by Arctic bumblebees. Physiol. Zool. 66:257-269.
- Cotterman, V. and B. Heinrich. 1993. A large temporary raven roost. The Auk 110:395.
- Heinrich, B., D. Kaye, T. Knight and K. Schaumburg. 1994. Dispersal and association among a "flock" of common ravens, Corvus corax. The Condor 96:545-551.
- Heinrich, B. 1994. Dominance and weight-changes in the common raven, Corvus corax. Anim. Behav. 48:1463-1465.
- Parker, P. G., F. A. Waite, B. Heinrich & J. M. Marzluff. 1994. Do common ravens share food bonanzas with kin? DNA fingerprinting evidence. Anim. Behav. 48:1085-1093.
- Heinrich, B. 1994. When is the common raven black? Wilson Bull. 106(3):571-572.
- Heinrich, B. 1994. Does the early bird get (and show) the meat? The Auk 111:764-769.
- Heinrich, B. 1995. Neophilia and exploration in juvenile common ravens, Corvus corax. Anim. Behaviour 50:695-704.
- Heinrich, B. and R. Bell. 1995. Winter food of a small insectivorous bird, the Golden-crowned Kinglet. Wilson Bulletin 107(3):558-561.
- Heinrich, B., J. Marzluff and W. Adams. 1996. Fear and food recognition in naive common ravens. The Auk 112 (2):499-503.
- Marzluff, J. M., B. Heinrich and C. S. Marzluff. 1996. Roosts are mobile information centers. Anim. Behaviour 51:89-103.
- Heinrich, B. 1995. An experimental investigation of insight in common ravens, Corvus corax. The Auk 112: 994-1003.
- Ybarrondo, B.A. and B. Heinrich. 1996. Thermoregulation and response to competition in the African Dung Ball-Rolling Beetle Kheper nigroaeneus (Coleoptera: Scarabaeidae). Physiol. Zool 69:35-48.
- Vogt, D. F., B. Heinrich, T. O. Dabolt and H. L. McBath. 1994. Ovary development and Colony founding in subarctic and temperate-zone bumblebee queens. Can. J. Zoology 72:1551-1556.
- Vogt, D. F., B. Heinrich, and R. C. Plowright. 1998. Ovarial development in bumblebee queens

- : The influence of abdominal temperature and food availability. *Can. J. Zool.* 76: 2026-2030.
- Heinrich, B., C.C. Joerg, S.S. Madden and E.W. Sanders Jr. 1997. Black-capped chickadees and Red-breasted nuthatches weigh sunflower seeds. *The Auk* 114: 298-299.
- Heinrich, B. and J. Pepper. 1998. Influence of competitions on caching behavior in the common raven, *Corvus corax*. *Anim. Behav.* 56: 1083-1090.
- Boarman, B. & B. Heinrich, 1999. Common Raven (*Corvus corax*). In: A. Poole and F. Gill. *Birds of North America*. 476: 1-32.
- Heinrich, B. 1999. Sociobiology of ravens: conflict and cooperation. *Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin* 37: 13-22.
- Heinrich, B. 1999. Planning to facilitate caching: Possible suet cutting by a common raven. *Wilson Bull.* 111: 276-278.
- Stahler, D.R., B. Heinrich and D.W. Smith. 2002. The raven's behavioral association with wolves. *Animal Behaviour* 64:283-290.
- Bugnyar, T. and B. Heinrich. 2003. Hiding in food-caching ravens, *Corvus corax*. *Rev.Ethol.Suppl.*5, 57.
- Heinrich, B. 2004.Overnighting of Golden-crowned kinglets in winter. *Wilson Bull.*115:123-124.
- Bugnyar. T., M. Stoewe and B. Heinrich. 2004. Ravens, *Corvus corax*, follow gaze direction of humans around obstacles . *Proc.R. Soc. Lond. B* 271: 1331-1336
- Woods, W. A. Jr, B. Heinrich and R.D. Stevenson. 2005. Honeybee flight metabolism: does it depend upon air temperature? *J. Exp. Biol.* 208 (6):1161-1173.
- Heinrich, B. and T. Bugnyar. 2005. Testing problem solving in ravens: string-pulling to reach food. *Ethology* 111: 962-976.
- Bugnyar. T. and B. Heinrich, 2005. Food-storing ravens, *Corvus corax*, differentiate between knowledgeable and ignorant competitors . *Proc. R. Soc B* 272: 1641-1646.
- Bugnyar, T. and B. Heinrich. 2006. Pilfering ravens, *Corvus corax*, adjust their behaviour to social context and identity of competitors. *Animal Cognition* 9: 369-376.
- Bugnyar, T., M. Stoewe and B. Heinrich. 2007. The ontogeny of caching behaviour in ravens, *Corvus corax*. *Animal Behaviour* 74: 757-767.
- Heinrich, B. and T. Bugnyar. 2007. Just how smart are ravens? *Scientific American* 296 (4): 64-71.
- Stoewe, M., T. Bugnyar, B. Heinrich and K. Kotrschal. 2006. Effect of group size on approach to novel objects in ravens (*Corvus corax*). *Ethology* 112: 1079-1088.
- Heinrich, B. 2007. The origin of insect thermoregulation. *J. Exp. Biol.* 210: 177-179.
- Bugnyar, T. Schwab, C., Schloegl, K., Kotrschal, K. and B. Heinrich. 2007. Ravens judge competitors through experience with play-caching. *Current Biology* 17: 1804-1808.
- Stoewe, M., T. Bugnyar, C. Schloegl, B. Heinrich, K. Kotrschal and E. Moestl. 2008. Corticosterone excretion patterns and affiliative behavior over development in ravens (*Corvus corax*). *Hormones and Behavior* 53: 208-216.
- Heinrich, B. 2008. The origin of insect thermoregulation studies. *Journal of Experimental Biology Classics, 1923-1953*: 35-38.
- Heinrich, B. 2011. Conflict, Cooperation and Cognition in the Common Raven. *Advances in Study of Behavior Vol. 43*: 189-234. Academic Press.

- Heinrich, B. 2012. A Heretofore Unreported Instant Color Change in a Beetle, *Nicrophorus tomentosus* Weber (Coleoptera: Sylphidae). *Northeastern Naturalist* 19(2): 345-352
- Heinrich, B. 2013. The Biological Basis of Aesthetics and Art. *Evolutionary Psychology*. www.epjournal.net- 2013, 11(1):1-9.
- Heinrich, B. 2013. Why Does a Hawk Build with Green Nesting Material? *Northeastern Naturalist* 20(2): 209-218.
- Heinrich, B. 2013 Coordinated Mass Movement of Blow Fly Larvae Diptera: Calliphoridae) *Northeastern Naturalist* 20(4): N23-N27.
- Heinrich, B. 2014. Redpoll Snow Bathing: Observations and Hypothesis. *Northeastern Naturalist* 21(4): N45-N52.
- Heinrich, B. 2014. American Chestnut Seed Dispersal and Regeneration. *Northeastern Naturalist* 21(4): 619-629
- Heinrich, B. 2015. Rapid Flower-Opening in *Iris pseudacoris*. *Northeastern Naturalist* 22 (3): N11-N14
- Heinrich, B. 2015. Tree Swallows' Feather-lining their Nest: An Anti-Parasitizing Strategy? *Northeastern Naturalist* 22 (3): 521-529.
- Heinrich, B. 2015. American Chestnut Caching by Red Squirrels. *Northeastern Naturalist* 22/4: N19-N21.
- Heinrich, B. 2016. Note on the Woodcock Rocking Display. *Northeastern Naturalist* 23/1: N4-N7.
- Heinrich, B. 2016. A Note on Iris Flower Anthesis: Mechanism and Meaning of Sudden Flower-Opening. *Northeastern Naturalist* 23:3, N12-N17.
- Heinrich, B. 2017. Winter Strategies of Ruffed Grouse in a Mixed Northern Forest. *Northeastern Naturalist* 24(7): B55-B71.
- Juice, Stephanie, and B. Heinrich. 2017. Overwintering Parasitism of *Callosamia promethea* (Saturniidae) (Drury) (Promethea moth) in a Northern Hardwood Forest. *Northeastern Naturalist* 24(3):317-330.

SEMI-POPULAR AND POPULAR WRITING

- Heinrich, B. and G. A. Bartholomew. 1972. Temperature control in flying moths. *Sci. Amer.* (June) 226:71-77.
- Heinrich, B. 1973. The energetics of the bumblebee. *Sci. Amer.* 228:96-102.
- Heinrich, B. 1976. Bumblebee foraging and the economics of sociality. *Am. Scientist* 64: 384-395.
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- Heinrich, B. 1977. The game of the bees. *Horticulture* July 1977:39-45.
- Heinrich, B. and G. A. Bartholomew. 1979. The ecology of the African dung beetle. *Sci. Amer.* 241(5):146-156.
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- Heinrich, B. (1986) Ravens on my mind. *Audubon* 88:74-77.
- Heinrich, B. (1986) Why is a robin's egg blue? *Audubon* 88:64-70.

- Heinrich, B. (1987) Pacing: The lesson of the frogs. *Ultrarunning*, July-August, pp. 32-33.
32-33.
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- Heinrich, B. 1994. Of Bedouins, Beetles and Blooms. *Natural History* 103(5):52-59.
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- Heinrich, B. 1995. Bumblebee Ecology. *Wild Earth*. Summer 1995:45-47
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- Heinrich, B. 1998. Home Cooking. P.47 In: Eating Between the Lines: A Maine Writers' Cookbook.(ed. P. Doiron).
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p. 176-178. John Wiley & Sons. Inc. New York.
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- Woodlands/summer p.22-29.
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