

Zoos and Conservation Bibliography 2007

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- Adelman LM, Falk JH, James S. 2000. Impact of National Aquarium in Baltimore on visitors' conservation attitude, behaviour and knowledge. *Curator* 43:33-61.
- Adler HJ, Wirth R. 1994. Species conservation priorities in Vietnam and the potential role of zoos. In: Olney PJS, Mace GM, Feistner ATC, editors. *Creative conservation: Interactive management of wild and captive animals*. London: Chapman and Hall; p 495-501.
- Aguilar RF, Mikota S. 1996. To reach beyond. A North American perspective on conservation outreach. *Journal of Zoo and Wildlife Medicine* 27(3):301-2.
- Alwis Lde. 1998. How zoos can more actively link ex-situ with in-situ conservation. *Zoos' Print* 13(3):37.
- Amato G. 1995. Zoos as centers for conservation biology. *AZA American Zoo and Aquarium Association regional conference proceedings 1995*, Wheeling, WV.: American Zoo and Aquarium Association. Pp. 205-208.
- American Association of Zoological Parks and Aquariums. 1992. Guidelines established for AAZPA-sponsored international conservation programs. April:5-6. 5 p.
- American Zoo and Aquarium Association. 1999. *Collective impact of America's zoos and aquariums*. Silver Spring, MD.: American Zoo and Aquarium Association.
- American Zoo and Aquarium Association. 2000. *AZA conservation program resource guide*. Silver Spring, MD.: American Zoo and Aquarium Association.
- Anderson D. 1989. Zoo Conservation Outreach Group. *AAZPA American Association of Zoological Parks and Aquariums regional conference proceedings 1989*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 590-593.
- Andrews C, Krussman R, Scholfield D. 1995. Reaching out: conservation activities at the National Aquarium in Baltimore. *International Zoo Yearbook* 34:30-6.
- Anon. 1964. Symposium "Zoos and conservation" Report. International Union for Conservation of Nature and Natural Resources Publications: Supplementary Paper No. 3, 44pp.
- Anon. 1998. From zoo cage to modern ark. *The Economist*:C81.
- Anon. 2006. Vaccination of zoo birds against avian flu. *Veterinary Record* 159(26):863.
- Asa CS. 1992. Contraceptive development and its application to captive and free ranging wildlife. *AAZPA / CAZPA American Association of Zoological Parks and Aquariums and Canadian Association of Zoological parks and Aquariums conference proceedings 1992*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 71-75.
- Asa CS, Porton I, Baker AM, Plotka ED. 1996. Contraception as a management tool for controlling surplus animals. In: Kleinman DG, Allen ME, Thompson KV, Lumpkin S, editors. *Wild mammals in captivity: principles and techniques*. Chicago, IL.: University of Chicago Press; p 451-67.
- Asa CS. 2001. The future of reproductive biology in zoos and in conservation. *Communiqué* February 2001:19-21.
- Bagarinao T. 1998. Nature parks, museums, gardens, and zoos for biodiversity conservation and environmental education: The Philippines. *Ambio* 27(3):230-7.
- Baker A. 2007. Animal ambassadors: an analysis of the effectiveness and conservation impact of ex situ breeding efforts. In: Zimmerman A, Hatchwell M, Dickie L, West C, editors. *Zoos in the 21st Century*. 15 1 ed. Cambridge: Cambridge University Press; p 139.
- Ballou JD, Gilpin M, Foose TJ. 1995. Population management for survival and recovery: analytical methods and strategies in small population conservation. *Colombian University Press*.
- Balmford A, Leader-Williams N, Green MJB. 1995. Parks or arks: where to conserve threatened mammals? *Biodiversity and Conservation* 4(6):595-607.
- Balmford A, Leader-Williams N, Mace GM, Manica A, Walter O, West C, Zimmerman A. 2007. Message received? Quantifying the impact of informal conservation education on adults visiting UK zoos. In: Zimmerman A, Hatchwell M, Dickie L, West C, editors. *Zoos in the 21st Century*. 15 1 ed. Cambridge: Cambridge University Press; p 120.
- Balmford A, Mace GM, Leader-Williams N. 1996. Designing the Ark: setting priorities for captive breeding. *Conservation Biology* 10(3):719-27.
- Balmford A, Mace GM, Leader-Williams N. 1997. Priority-setting for ex situ conservation. *Conservation Biology* 11(3):593-4.
- Balmford A, Manica A, Airey L, Birkin L, Oliver A, Schleicher J. 2004. Climate change, Hollywood and public opinion. *Science* 305:1713.
- Balmford A. 1999. (Less and less) great expectations. *Oryx* 33:87-8.
- Balmford A. 2000. Priorities for captive breeding - which mammals should board the ark? In: Entwistle A, Dunstone N, editors. *Priorities for the conservation of mammalian diversity: Has the Panda had its day?* Cambridge: Cambridge University Press; p 291-307.
- Balmford A. 2000. Separating fact from artefact in analyses of zoo visitor preferences. *Conservation Biology* 14:1193-5.
- Barber J. 2003. Animal welfare and animal rights: It is not about taking sides. *Journal of the Elephant Manager's Association* 14(3):44-6.
- Barlow GM, Wilckens J, Hopkins J, and Lees C. 1999. Zoo involvement in the Australian recovery process. *Proceedings of the seventh world conference on breeding endangered species: Linking zoo and field research to advanced conservation*, Cincinnati: Cincinnati Zoo & Botanical Garden.
- Beck BB. 1991. Managing zoo environments for reintroduction. *AAZPA American Association of Zoological Parks and Aquariums annual conference proceedings 1991*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 436-440.

- Beck BB, Rapaport LG, Price MS, Wilson A. 1994. Reintroduction of captive born animals. In: Olney PJS, Mace GM, Feistner ATC, editors. *Creative conservation: Interactive management of wild and captive animals*. London: Chapman and Hall; p 265-84.
- Beck BB. 1995. Reintroductions, zoos, conservation and animal welfare. In: Norton BG, Hutchins M, Stevens EF, Maple TL, editors. *Ethics on the ark*. Washington D.C.: Smithsonian Institution Press; p 155-63.
- Bendiner R. 1981. *The fall of the wild: The rise of the zoo*. New York: Dutton.
- Bendiner R. 1983. The need to breed. *Zoogoer* 12(4):7-9.
- Bennett PM. 1990. Establishing breeding programmes for threatened species between zoos. *Journal of Zoology* 220:513-5.
- Bertram B. 1993. The future of zoos: arks or distractions? *International Zoo News* 40(3):22-4.
- Bertram B. 2004. Misconceptions about zoos. *Biologist* 51(4):199-206.
- Biodiversity and Conservation. 1995. Special issue: captive propagation and effective conservation. *Biodiversity and Conservation* 4(6):531-677.
- Birney BA, 1988. A survey of visitors' attitudes towards conservation issues relating to birds.. *Report to the Chicago Zoological Society*, Brookfield, IL.:
- Birney BA. 1991. The impact of Bird Discovery Point on visitors' attitudes towards bird conservation issues. Brookfield, IL.: Chicago Zoological Society.
- Block R, 1988. Conservation in zoos: myth or reality . *AAZPA American Association of Zoological Parks and Aquariums regional conference proceedings 1988*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 376-382.
- Block R. 1991. Conservation education in zoos. *Journal Museum Education* 16:6-7.
- Boer de LEM. 1989. Preservation of species in zoological and botanical gardens. In: Boer de LEM, editor. *EEP coordinators manual*. Amsterdam: Stichting Nationaal Onderzoek Dierentuinen; p 1-27.
- Boer de LEM. 1991. *EEP: European zoos care about the conservation of endangered animal species*. Amsterdam: EEP Executive Office.
- Boer de LEM. 1992. Ex situ propagation programmes as a contribution to the conservation of biodiversity. In: Sundlund OT, Hindor K, Brown AHD, editors. *Conservation of biodiversity for sustainable development*. Oslo: Scandinavian University Press.
- Boer de LEM. 1993. Development of coordinated genetic and demographic breeding programmes. In: Olney PJS, Mace GM, Feistner ATC, editors. *Creative conservation: interactive management of wild and captive animals*. London: Chapman & Hall; p 304-10.
- Bostock SSC. 1987. Conservation as a moral justification for zoos. *Applied Animal Behaviour Science* 18(3/4):255-8.
- Bowles ML, Whelan CJ. 1994. *Restoration of endangered species*. Cambridge: Cambridge University Press.
- Bradshaw EL, Bateson P. 1999. Animal welfare and wildlife conservation. In: Gosling LM, Sutherland WJ, editors. *Behaviour and Conservation*. Cambridge: Cambridge University Press; p 330.
- Brambell MR. 1977. Reintroduction. *International Zoo Yearbook* 17:112-6.
- Brambell MR. 1993. The evolution of a modern zoo. *International Zoo News* 40(7):27-34.
- Briese A, 1999. Using evaluations and research to plan for conservation education. *AZA American Zoo and Aquarium Association annual conference proceedings 1999*, Silver Springs, MD.: American Zoo and Aquarium Association. Pp. 91-95.
- Broad G. 1996. Visitor profile and evaluation of informal education at Jersey Zoo. *Dodo* 32:166-92.
- Broad S, Weiler B. 1998. Captive animals and interpretation - a tale of two tiger exhibits. *Journal of Tourism Studies* 9:14-27.
- Bronikowski EJ, Jr., Beck BB, and Power M, 1989. Innovation, exhibition and conservation: free ranging tamarins at the National Zoological Park. *AAZPA American Association of Zoological Parks and Aquariums annual conference proceedings 1989*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 540-546.
- Bruner G, 1991. Ecotourism and zoos - partners in saving wildlife. *AAZPA American Association of Zoological Parks and Aquariums annual conference proceedings 1991*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 492-499.
- Bruning D, 1990. How do we select species for conservation and breeding programmes. *AAZPA American Association of Zoological Parks and Aquariums annual conference proceedings 1990*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 313-319.
- Bruning DF. 1987. The conservation role of captive propagation in zoos. *Colonial Waterbirds* 10(2):255-8.
- Bryant EH, Backus VL, Clark ME, Reed DH. 1999. Experimental tests of captive breeding for endangered species. *Conservation Biology* 13(6):1487-96.
- Butynski T, 1994. How the smaller zoos can contribute to in situ conservation in Africa: The Zoo Atlanta approach. *AZA American Zoo and Aquarium Association annual conference proceedings 1994*, Wheeling, WV.: American Zoo and Aquarium Association. Pp. 61-66.
- Butynski T. 2001. Zoo Atlanta's Africa biodiversity conservation program. In: Conway WG, Hutchins M, Souza M, Kapetanakis Y, Paul E, editors. *AZA field conservation resource guide*. Atlanta, GA: Zoo Atlanta; p 21-6.
- Byers O, Seal US. 2003. The Conservation Breeding Specialist Group (CBSG): activities, core competencies and vision for the future. *International Zoo Yearbook* 38:43-53.
- Callicot JB. 1986. On the intrinsic value of nonhuman species. In: Norton BG, editor. *The preservation of species*. Princeton, NJ.: The Princeton University Press; p 138-72.
- Campbell S. 1978. *Lifeboats to Ararat*. New York: Times Books.
- Campbell S. 1980. Is reintroduction a realistic goal? In: Soulé ME, Wilcox BA, editors. *Conservation Biology: An evolutionary-ecological perspective*. Sunderland, MA.: Sinauer Associates; p 263-9.
- Captive Breeding Specialist Group. 1992. *Ark into the 21st Century. A global conservation strategy for zoos and aquaria*. Apple Valley, MN.: Captive Breeding Specialist Group.
- Caro TM, Pelkey N, Grigione M. 1994. Effects of conservation biology education on attitudes towards nature. *Conservation Biology* 8:846-52.
- Carr A, III. 1981. Perspectives: Zoos and the WCS (World Conservation Strategy). *Animal Kingdom* 84(3):11.
- CBSG News. 1990 -. *The World Conservation Union / Species Survival Commission / Conservation Breeding Specialist Group*
- Cherfas J. 1984. Zoo 2000. *BBC Wildlife* 2(11):520-3.
- Cherfas J. 1984. *Zoo 2000: A look beyond the bars*. London: British Broadcasting Corporation.
- Chicago Zoological Society and Lincoln Park Zoological Society. 1993. *Conservation-related perceptions, attitudes, and behaviour of adult visitors and non-visitors to Brookfield Zoo and Lincoln Park Zoo*. Chicago, IL: Chicago Zoological Society and Lincoln Park Zoological Society.

- Chivers DJ. 1991. Guidelines for re-introductions: procedures and problems. In: Gipps JHW, editor. Beyond captive breeding: re-introducing endangered mammals to the wild. Symposia, Zoological Society of London 62. Oxford.: Clarendon Press; p 89-99.
- Christie S. 2007. Zoo-based fundraising for in situ wildlife conservation. In: Zimmerman A, Hatchwell M, Dickie L, West C, editors. *Zoos in the 21st Century*. 15 1 ed. Cambridge: Cambridge University Press; p 257.
- Clark TW, Reading RP, Clarke AL, editors. 1994. Endangered species recovery. Washington, D.C.: Island Press.
- Clarke GK, 1974. The value of zoos and aquariums. *AAZPA American Association of Zoological Parks and Aquariums regional conference proceedings 1974*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 8-10.
- Clevenger S. 1984. The role of the modern zoo in the preservation of species. *International Zoo News* 3(2):20-6.
- Clubb R, Mason GJ. 2007. Natural behavioural biology as a risk factor in carnivore welfare: How analysing species differences could help zoos improve enclosures. *Applied Animal Behaviour Science* 102(3-4):303-28.
- Coblentz BE. 1990. Exotic organisms: A dilemma for conservation biology. *Conservation Biology* 4(5):261-5.
- Coe JC. 1996. What's the message? Education through exhibit design. In: Kleinman DG, Allen ME, Thompson KV, Lumpkin S, editors. *Wild mammals in captivity*. Washington, D.C.: Smithsonian Institution Press; p 167-74.
- Cohn J. 2006. New at the zoo: ZIMS. *Bioscience* 56(7):564-6.
- Cohn JP. 1988. Captive breeding for conservation. *Bioscience* 38(312):316.
- Cohn JP. 1992. Decisions at the zoo: Ethics, politics, profit, and animal-rights concerns affect the process of balancing conservation goals and the public interest. *Bioscience* 42(9):654-9.
- Cohn JP. 2000. Working outside the box; zoos and aquariums are shifting the focus of their conservation efforts to the wild. *Bioscience* 50(7):564-9.
- Collins LK. 1982. Propagation and conservation centres. In: Sausman K, editor. *Zoological park and aquarium fundamentals*. Wheeling, WV.: American Association of Zoological Parks and Aquariums; p 141-68.
- Conant R, 1974. Research and captive breeding of reptiles, amphibians, and fishes in zoological parks and aquariums. *AAZPA American Association of Zoological Parks and Aquariums annual conference proceedings 1974*, Wheeling, WV.: American Association of Zoological Parks & Aquariums. Pp. 67-73.
- Conservation Breeding Specialist Group. 1997. CBSG Mission Statement. *CBSG News* 8(2):3.
- Conway WG, 1987. Species carrying capacity in the zoo alone. *AAZPA American Association of Zoological Parks and Aquariums annual conference proceedings 1987*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 20-32.
- Conway WG, 1991. A zoo-based international conservation programme; Wildlife Conservation International. *AZA American Association of Zoos and Aquariums annual conference proceedings 1991*, Wheeling, WV.: American Association of Zoos and Aquariums. Pp. 381-385.
- Conway WG, 1992. The conservation park: a new zoo synthesis for a changed world. *AAZPA American Association of Zoological Parks and Aquariums annual conference proceedings 1992*, Wheeling, WV.: American Association of Zoological Parks and Aquariums.
- Conway WG, 1994. Zoo-based international conservation. *AZA American Zoo and Aquarium Association annual conference proceedings 1994*, Wheeling, WV.: American Zoo and Aquarium Association. Pp. 67-73.
- Conway WG, 1998. Zoo reserves: a proposal. *AZA American Zoo and Aquarium Association annual conference proceedings 1998*, Wheeling, WV.: American Zoo and Aquarium Association. Pp. 54-58.
- Conway WG, 1999. Congo: a zoo experiment in participatory conservation. *AZA American Zoo and Aquarium Association annual conference proceedings 1999*, Silver Springs, MD.: American Zoo and Aquarium Association. Pp. 101-104.
- Conway WG, 1999. The changing role of zoos in the 21st century. *Proceedings of the 54th World Zoo Organisation annual conference*, Atlanta, GA.
- Conway WG, Hutchins M, Souza M, Kapetanakos Y, Paul E, editors. 2001. *AZA field conservation resource guide*. Atlanta, GA.: Zoo Atlanta.
- Conway WG. 1966. Why have a zoo? *Parks & Recreation* 1(6):488-90.
- Conway WG. 1967. The opportunity for zoos to save vanishing species. *Oryx* 9(2):154-60.
- Conway WG. 1969. Zoos: Their changing roles. *Science* 163(3862):48-52.
- Conway WG. 1974. Do wild animals have a future? In nature? In zoos? *Animal Kingdom* 77(3):2-6.
- Conway WG. 1980. An overview of captive propagation. In: Soulé ME, Wilcox BA, editors. *Conservation biology: An evolutionary-ecological perspective*. Sunderland, MA.: Sinauer Associates; p 199-208.
- Conway WG. 1980. Where we go from here. *International Zoo Yearbook* 20:184-9.
- Conway WG. 1982. Zoo and aquarium philosophy. In: Sausman K, editor. *Zoological Park and Aquarium Fundamentals*. Wheeling, WV.: American Association of Zoological Parks and Aquariums; p 3-12.
- Conway WG. 1983. Captive birds and conservation. In: Brush HH, Clark Jnr GA, editors. *Perspectives in ornithology*. Cambridge: Cambridge University Press.
- Conway WG. 1986. The practical difficulties and financial implications of endangered species breeding programmes. *International Zoo Yearbook* 24/25:210-9.
- Conway WG. 1988. Can technology aid species preservation? In: Wilson EO, editor. *Biodiversity*. Washington, D.C.: National Academy Press; p 263-8.
- Conway WG. 1993. The conservation park: a new zoo synthesis for a changed world. In: Wemmer C, editor. *The ark evolving: zoos and aquariums in transition*. Front Royal, VA.: National Zoological Park, Conservation and Research Centre, Smithsonian Institution; p 259-76.
- Conway WG. 1995. Wild and zoo animal interactive management and habitat conservation. *Biodiversity and Conservation* 4(6):573-94.
- Conway WG. 1996. The in situ conservation program of the Wildlife Conservation Society. *International Zoo News* 43(5):274-9.
- Conway WG. 1996. Zoo conservation and ethical paradoxes. In: Norton BG, Hutchins M, Stevens EF, Maple TL, editors. *Ethics on the ark: Zoos, animal welfare and wildlife conservation*. Washington, DC.: Institution Press; p 1-9.
- Conway WG. 1997. The changing role of zoos in international conservation and the WCS. *Society for Conservation Biology Newsletter* 4:1-3.
- Conway WG. 1999. Linking zoo and field, and keeping promises to dodos. In: Roth TL, Swanson WF, Blattman LK, editors. *Seventh world conference on breeding endangered species: linking zoo and field research to advance conservation*. Cincinnati: p 5-11.
- Conway WG. 2000. The changing role of zoos in the 21st century. *EAZA News* 29:8-13.

- Conway WG. 2001. Wildlife Conservation Society Patagonian coast projects: Examples from a long term conservation program. In: Conway WG, Hutchins M, Souza M, Kapetanakos Y, Paul E, editors. AZA field conservation resource guide. Atlanta, GA.: Zoo Atlanta; p 27-35.
- Conway WG. 2003. The role of zoos in the 21st century. *International Zoo Yearbook* 38:7-13.
- Conway WG. 2007. Entering the 21st century. In: Zimmerman A, Hatchwell M, Dickie L, West C, editors. *Zoos in the 21st Century*. 15 1 ed. Cambridge: Cambridge University Press; p 12.
- Cooper JE. 1986. Captive breeding of invertebrates. *International Zoo Yearbook* 24/25:74-6.
- Crissey S. 2005. The complexity of formulating diets for zoo animals: a matrix. *International Zoo Yearbook* 39(1):36-43.
- Croke V. 1997. The modern ark, the story of zoos: past, present and future. New York: Scibner.
- Cuarón AD. 2005. Further role of zoos in conservation: monitoring wildlife use and the dilemma of receiving donated and confiscated animals. *Zoo Biology* 24(2):115-25.
- Curry-Lindahl K. 1964. Conservation of nature - a duty for zoological gardens. *International Zoo Yearbook* 5:100-2.
- Dathe H, 1972. Remarks on zoological gardens as important places for the conservation and breeding of threatened species. *International Union of Directors of Zoological Gardens annual meeting proceedings*, Pp. 18-20.
- Davey G. 2006. Relationships between exhibit naturalism, animal visibility and visitor interest in a Chinese Zoo. *Applied Animal Behaviour Science* 96(1-2):93-102.
- Davey G. 2006. Visitor behaviour in zoos: A review. *Anthrozoös* 19(2):143-59.
- Davis MD. 1993. Do zoos compete with habitat? *Wild Earth Spring*:48-51.
- De Courcy C. 1995. The zoo story. Ringwood, Vic.: Penguin.
- DeBlieu J. 1991. Meant to be wild: the struggle to save endangered species through captive breeding. Colo.: Fulcrum, Golden.
- Deem SL. 2007. Role of the zoo veterinarian in the conservation of captive and free-ranging wildlife. *International Zoo Yearbook* 41(1):3-11.
- Delapa M. 1994. Interpreting hope, selling conservation: zoos, aquariums and environmental education. *Museum News May/June*:48-9.
- Demarest J, Durrant BS, Gibbons EF. 2005. Captive conservation of endangered species. Albany: State University of New York Press.
- Dickie L, Bonner JP, West C. 2007. In situ and ex situ conservation: blurring the boundaries between zoos and the wild. In: Zimmerman A, Hatchwell M, Dickie L, West C, editors. *Zoos in the 21st Century*. 15 1 ed. Cambridge: Cambridge University Press; p 220.
- Dickinson, P., 2005. *ZooNews Digest*. zoonewsdigest@yahoo.com.
- Diebold E, Hutchins M, Harrelson D, Wallace M, Waddell W, and Warmolts D, 1997. The North American Fauna Interest group: Conservation in our own backyard. *AZA American Zoo and Aquarium Association annual conference proceedings 1997*, Wheeling, WV.: American Zoo and Aquarium Association. Pp. 198-205.
- Dierenfeld ES. 2005. Advancing zoo animal nutrition through global synergy. *International Zoo Yearbook* 39(1):29-35.
- Dierking LD, Burtnyk K, Buchner KS, Falk JH. 2002. Visitor learning in zoos and aquaria: a literature review. Annapolis, MD.: Institute for Learning Innovation.
- Dietz J, Dietz LA, Negagata NY. 1993. The effective use of flagship species for conservation of biodiversity. In: Olney PJS, Mace GM, Feistner ATC, editors. *Creative conservation: Interactive management of wild and captive animals*. London: Chapman and Hall; p 32-49.
- Duncan IJH, Fraser D. 1997. Understanding animal welfare. In: Appleby MC, Hughes BO, editors. *Animal welfare*. Wallingford, UK.: CAB International; p 19-31.
- Dunlap J, Kellert SR. 1995. Zoos and zoological parks. In: Reich WT, editor. *Encyclopedia of Bioethics, Revised Edition, Volume 1*. New York: Simon & Schuster; p 184-7.
- Durrell GM. 1976. The stationary ark. London: Collins.
- Durrell GM. 1990. The ark's anniversary. London: Collins.
- Durrell L, Anderson D, Katz A, Gibson D, Welch C, Sargent EL, Porton I. 2007. The Madagascar Fauna Group: what zoo cooperation can do for conservation. In: Zimmerman A, Hatchwell M, Dickie L, West C, editors. *Zoos in the 21st Century*. 15 1 ed. Cambridge: Cambridge University Press; p 275.
- Durrell L, Mallinson JJC. 1987. Reintroduction as a political and educational tool for conservation. *Dodo* 24:6-19.
- Durrell L, Mallinson JJC. 1999. The impact of an institutional review: a change of emphasis towards field conservation programmes. *International Zoo Yearbook* 36:1-8.
- Earnhardt JM, Thompson S, Marhevsky EA. 2001. Interactions of target population size, population parameters, and program management of viability of captive populations. *Zoo Biology* 20(3):169-83.
- Eaton RL. 1972. Predatory and feeding behavior in adult lions: The deprivation experiment. *Zeitschrift fur Tierpsychologie* 31:461-73.
- Ebenhard T. 1995. Conservation breeding as a tool for saving animal species. *Trends in Ecology and Evolution* 10:438-43.
- Ebersole RS. 2001. The new zoo. *Audubon Nov/Dec*:64-72.
- Ehrenfeld D. 1991. Conservation and the rights of animals. *Conservation Biology* 5(1):1-3.
- Ellis E, 1999. CBSG activities and the zoo community: present and future directions. *Proceedings of the European Association of Zoos and Aquariums annual conference*, Pp. 526-529.
- Ellis E. 2001. Conservation Breeding Specialist Group (CBSG). In: Bell C, editor. *Encyclopaedia of the world's zoos*. 1 Chicago: Fitzroy Dearborn Publishers; p 295-8.
- Esson M, Francis, D. 2006. Zoo theatre. The effectiveness of performance arts in delivering multi-tiered messages to mixed zoo audiences. *Journal of the International Zoo Educators Association* 42:16-19.
- European Association of Zoos and Aquaria, World Zoo Organisation. 2000. In situ conservation campaigns of zoos for the new millennium. Workshop organised by the European Association of Zoos and Aquaria (EAZA) and the World Zoo Organisation (WZO), Cologne Zoo, Cologne.
- European Association of Zoos and Aquaria. 2002. EAZA strategy: for the beginning of the 21st century. Amsterdam: European Association of Zoos and Aquaria.
- Falk JH. 1982. The use of time as a measure of visitor behavior and exhibit effectiveness. *Journal Museum Education* 7(4):10-3.
- Fascione N, Konstant W, Shollet C. 2001. Ecotourism programs. In: Conway WG, Hutchins M, Souza M, Kapetanakos Y, Paul E, editors. AZA field conservation resource guide. Atlanta, GA.: Zoo Atlanta; p 258-62.

- Federation of Zoological Gardens. 1993. Captive breeding for conservation. London: Federation of Zoological Gardens.
- Federation of Zoological Gardens. 1993. Education: An essential task of zoos. London: Federation of Zoological Gardens.
- Federation of Zoological Gardens. 1993. The evolution of the modern zoo. London: Federation of Zoological Gardens.
- Federation of Zoological Gardens. 1995. Joint Management of species programmes. London: Federation of Zoological Gardens.
- Federation of Zoological Gardens. 1996. Reintroduction of zoo animals. London: Federation of Zoological Gardens.
- Federation of Zoological Gardens. 1996. Zoos and conservation in the wild. London: Federation of Zoological Gardens.
- Feistner ATC, Mallinson JJC. 2000. A recipe for species conservation: Multidisciplinary ingredients. In: Entwistle A, Dunstone N, editors. Has the Panda had its day?: Priorities for the conservation of mammalian diversity. Cambridge: University Press Cambridge; p 309-23.
- Field D, Dickie L. 2007. Zoo colatitions for conservation. In: Zimmerman A, Hatchwell M, Dickie L, West C, editors. Zoos in the 21st Century. 15 1 ed. Cambridge: Cambridge University Press; p 287.
- Fields CA, 1990. Environmental conservation: a practical application by a zoo support organisation. *AAZPA American Association of Zoological Parks and Aquariums annual conference proceedings 1990*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 236-243.
- Fitter R. 1986. Wildlife for man: How we should conserve our species. London: Collins.
- Flesness NR, Foose TJ. 1990. The role of captive breeding in the conservation of species. IUCN red list of threatened species. Gland/Cambridge: The World Conservation Union; p xi-xv.
- Flesness NR, Mace GM. 1988. Population databases and zoological conservation. *International Zoo Yearbook* 27:42-9.
- Foos TJ, Ballou J. 1988. Management of small populations. *International Zoo Yearbook* 27:26-41.
- Foos TJ, Ballou J. 1996. Demographic and genetic management of captive populations. In: Kleinman DG, Allen ME, Thompson KV, Lumpkin S, editors. *Wild mammals in captivity: Principles and techniques*. Chicago, IL.: University of Chicago Press; p 263-83.
- Foos TJ, Ellis-Joseph S, Seal US. 1992. Conservation assessment and management plans (CAMPS) progress report. *Species* 18:73-5.
- Foos TJ, Flesness NR, Seal US, Boer de., B., Rabb GB. 1992. Ark into the 21st century. Apple Valley, MN.: The World Conservation Union / Captive Breeding Specialist Group.
- Foos TJ, Hutchins M. 1991. Captive action plans and fauna interest groups. *CBSG News* 2(3):5-6.
- Foos TJ, Seal US. 1992. Conservation assessment and management plans: global captive action plans. Section II. Conservation Assessment and Management Plans (CAMP)/Global Captive Action Plans (GCAP) briefing book core materials. Apple Valley, Minnesota: The World Conservation Union / Captive Breeding Specialist Group.
- Foos TJ. 1983. The relevance of captive populations to the conservation of biotic diversity. In: Schoenwald-Cox SM, Chambers SM, Macbryde B, Thomas WL, editors. *Genetics and conservation*. Menlo Park, CA: The Benjamin/Cummings Publishing Co. Inc.
- Foos TJ. 1986. Riders of the last ark: the role of captive breeding in conservation strategy. In: Kaufman L, Mallory D, editors. *The last extinctions*. Cambridge, MA.: MIT Press; p 314-65.
- Foos TJ. 1989. Erstwhile and megazoo. *Orion Nature Quarterly* Spring:60-3.
- Foos TJ. 1991. Viable population strategies for reintroduction programmes. In: Gipps JHW, editor. *Beyond captive breeding: reintroducing endangered mammals to the wild*. Symposia, Zoological Society of London 62. Oxford: Clarendon Press; p 165-72.
- Foos TJ. 1992. Conservation assessment, management plans, and global captive action plans. *CBSG News* 3:4-8.
- Fouraker M, 1994. The Fort Worth Zoos' in situ conservation projects: big bangs for little bucks. *AAZPA American Association of Zoological Parks and Aquariums regional conference proceedings 1994*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 27-30.
- Fourie J. 1994. Comments on national parks and future relations with neighbouring communities. *Koedoe* 37(1):123-36.
- Fowler M. 2006. Historical perspective of zoo and wildlife medicine. *Journal of veterinary medical education* 33(3):326-30.
- Fradrich H. 1994. The role of the modern zoo. *Live Animal Trade & Transport Magazine* 4(3):6-8.
- Freeman H, 1985. Conservation education: What's new? *AAZPA American Association of Zoological Parks and Aquariums annual conference proceedings 1985*, Wheeling, WV.: American Association of Zoological Parks and Aquariums.
- Funnell E. 2006. How can zoos contribute to the UK Biodiversity Action Plan? *LifeLines* 92:10.
- Galbraith D. 2000. Role of zoos and botanical gardens: The voyage of the ark. *Pappus* 19(2):13-6.
- Gershenz N, Saul L. 1993. The ecosystem survival plan: zoo visitors save wild places. *Endangered Species Update* 10:61-2.
- Gershenz N, Saul-Gershenz L. 2001. Saving wildlife in nature: A broad based coalition. In: Conway WG, Hutchins M, Souza M, Kapetanakos Y, Paul E, editors. *AZA field conservation resource guide*. Atlanta, GA.: Zoo Atlanta; p 143-9.
- Gerya C, Kayes K, Johnson J, McKew T, Soo K. 1992. Can captive breeding programs enhance protection of threatened species? *Thylacine* 17(2):6-12.
- Gibbons EF, Durrant BS, Demarest J, editors. 1994. *Conservation of endangered species in captivity: An interdisciplinary approach*. Ithaca, NY: Cornell University Press.
- Gibbs N. 1989. The new zoo: A modern ark. *Time* Aug. 21:50-53. *Time* Aug(21):50-3.
- Gibson D, Katz A, Welch C. 2001. Madagascar Fauna Group: important sociocultural issues. In: Conway WG, Hutchins M, Souza M, Kapetanakos Y, Paul E, editors. *The AZA field conservation resource guide*. Atlanta: Atlanta Zoo; p 190-7.
- Ginsberg JR. 1993. Can we build an Ark? *Trends in Ecology and Evolution* 8:4-5.
- Ginsberg JR. 1994. Captive breeding, reintroduction and the conservation of canids. In: Olney PJS, Mace GM, Feistner ATC, editors. *Creative conservation: Interactive management of wild and captive animals*. London: Chapman and Hall; p 365-83.
- Gippoliti S, Amori G. 2007. Beyond threatened species and reintroduction: establishing priorities for conservation and breeding programmes for European rodents in zoos. *International Zoo Yearbook* 41(1):194-202.
- Gippoliti S, Carpaneto GM. 1997. Captive breeding, zoos, and good sense. *Conservation Biology* 11(3):806-7.
- Gippoliti S. 1995. Captive breeding programmes and wildlife conservation: some personal observations. *International Zoo News* 2:338-41.
- Gipps JHW. 1991. *Beyond captive breeding: reintroducing endangered species in the wild*. Oxford: Oxford University Press.
- Giusti E. 1999. *A study of visitor responses to the Hall of Biodiversity*. New York: American Museum of Natural History.
- Glatston AR. 1997. Sex ratio research in zoos and its implications for captive management. *Applied Animal Behaviour Science* 51(3):209-16.
- Goldman S. 1990. Zoos look beyond their gates to save animals in the wild. *Zootails (Fort Wayne Zoological Society)* Nov/Dec:F6.

- Goodrowe K. 2001. The role of genome resource banking in wildlife conservation programs. *Communiqué* February 2001:13-4.
- Goodwin DU. 1980. The new zoos are banks for saving genetic diversity. *New York Times*, 24 Aug,129 (sec 4):E22. New York Times;24 Aug, 129 (sec 4):E22.
- Gore M. 2002. How collaboration can aid in situ conservation: a zoo linking up with a conservation organisation. *EAZA News* 38(14):16.
- Graff JS. 1981. 20th century arks. *Science* 81(2):102-4.
- Grandy J. 1989. Captive breeding in zoos: destructive programs in need of change. *Humane Society News* Summer:8-11.
- Guerrant EO, Havens K, Maunder M, editors. 2004. *Ex situ plant conservation: Tools for conserving wild populations*. Washington, D.C.: Island Press.
- Guerrant EO, Kaye TN. 2007. reintroduction of rare and endangered plants: common factors, questions and approaches. *Australian Journal of Botany* 55(3):362-70.
- Gutierrez de White T, Jacobson SK. 1994. Evaluating conservation education programs at a South American zoo. *Journal of Environmental Education* 25(4):18-22.
- Gwynne JA. 2007. Inspiration for conservation: moving audiences to care. In: Zimmerman A, Hatchwell M, Dickie L, West C, editors. *Zoos in the 21st Century*.15 1 ed. Cambridge: Cambridge University Press; p 63.
- Hancocks D. 1996. An introduction to reintroduction. In: Norton BG, Hutchins M, Stevens EF, Maple TL, editors. *Ethics on the ark: zoos, animal welfare and wildlife conservation*. Washington, D.C.: Smithsonian Institution Press; p 181.
- Hancocks D. 2001. *A different nature, the paradoxical world of zoos and their uncertain future*. Berkeley, CA.: University of California Press.
- Harrelson D, Hutchins M, Diebold E, Waddell W, Wallace M, Warmolts D. 1998. Building partnerships with zoos and aquariums. *Endangered Species Bulletin* 23:32-5.
- Hatchwell M, Rubel A, Dickie L, West C, Zimmerman A. 2007. Conclusion: the future of zoos. In: Zimmerman A, Hatchwell M, Dickie L, West C, editors. *Zoos in the 21st Century*.15 1 ed. Cambridge: Cambridge University Press; p 343.
- Hatchwell M, Rubel A. 2007. The Masola rainforest: a model partnership in support of in situ conservation in Madagascar. In: Zimmerman A, Hatchwell M, Dickie L, West C, editors. *Zoos in the 21st Century*.15 1 ed. Cambridge: Cambridge University Press; p 205.
- Haworth P, Travers K. 1993. Changing stripes: Are zoos saving the world or just saving themselves? *American Society for the Prevention of Cruelty to Animals, Animal Watch* Summer:12-8.
- Hayward J. 1995. *Conservation baseline: Visitor research for the Monterey Bay Aquarium*. Northhampton, MA.: People, Places, & Design Research.
- Hayward J. 1997. *Conservation phase 2: An analysis of visitors' perceptions about conservation at the Monterey Bay Aquarium*. Northhampton, MA.: People, Places, & Design Research.
- Hearn JP, Hodges JK, editors. 1985. *Advances in animal conservation: Symposia of the Zoological Society of London*. London: Academic Press.
- Hediger H. 1969. *Man and animal in the zoo: Zoo biology*. London: Routledge and Kegan Paul.
- Henry JP. 1997. Integrating in situ and ex situ conservation. *PlantTalk*:23-5.
- Hiemstra SJ. 2006. Does animal breeding and conservation need new regulations for the exchange and use of genetic material? *Journal of Animal Breeding & Genetics* 123(6):353.
- Hilliard D. 1996. The zoo conservation outreach group: linking zoo-based conservation efforts in the Americas. *International Zoo News* 43(5):382-4.
- Hochadel O. 2005. Science in the 19th-century zoo. *Endeavour* 29(1):38-42.
- Hodges JK. 1996. Determining and manipulating female reproductive parameters. In: Kleinman DG, Allen ME, Thompson KV, Lumpkin S, editors. *Wild mammals in captivity: Principles and techniques*. Chicago, IL.: Chicago University Press; p 418-28.
- Holden C. 1984. Zoos forging new role in science. *Science* 225(4658):147.
- Holst B, Dickie L. 2007. How do national and international regulations and policies influence the role of zoos and aquariums in conservation? In: Zimmerman A, Hatchwell M, Dickie L, West C, editors. *Zoos in the 21st Century*.15 1 ed. Cambridge: Cambridge University Press; p 22.
- Holst B. 2003. European zoos support the Atlantic Rainforest. *Oryx* 37:14-5.
- Holt WV. 1994. Reproductive technologies. In: Olney PJS, Mace GM, Feistner ATC, editors. *Creative conservation: Interactive management of wild and captive animals*. London: Chapman and Hall; p 365-83.
- Holt WV. 1995. Germplasm cryopreservation and its potential role in wildlife conservation. In: Ganslosser U, Hodges JK, Kaumanns W, editors. *Research and captive propagation*. Furth: Filander-Verlag; p 71-80.
- Hosey GR. 1997. Behavioural research in zoos: academic perspectives. *Applied Animal Behaviour Science* 51(3):199-207.
- Husband BC, Campbell LG. 2004. Population responses to novel environments: implications for ex situ plant conservation. In: Guerrant EO, Havens K, Maunder M, editors. *Ex situ plant conservation: Tools for conserving wild populations*. Washington, D.C.: Island Press; p 231-66.
- Hutchins M and Fascione N, 1993. What is it going to take to save wildlife? *AAZPA American Association of Zoological Parks and Aquariums regional conference proceedings 1993*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 5-15.
- Hutchins M and Smith B, 2003. AZA's protected areas initiative: moving zoo and aquarium conservation to the landscape level. *AZA American Zoo and Aquarium Association annual conference proceedings 2003*, Silver Spring, MD.: American Zoo and Aquarium Association. Pp. 37-39.
- Hutchins M and Tilson R, 1993. What are modern, professionally-managed zoological parks and aquariums doing for in situ conservation? *Annual Conference of the Society for Conservation Biology*, Tempe, AZ.: Arizona State University.
- Hutchins M and Vehrs K, 1998. The future of zoo and aquarium animal management and conservation programs. *AZA American Zoo and Aquarium Association regional conference proceedings 1998*, Wheeling, WV.: American Zoo and Aquarium Association. Pp. 452-455.
- Hutchins M, 1993. Ethics and conservation. *AAZPA American Association of Zoological Parks and Aquariums annual conference proceedings 1993*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 224-225.

- Hutchins M, 1999. Why zoos and aquariums should increase their contribution to in situ conservation. *AZA American Zoo and Aquarium Association annual conference proceedings 1999*, Silver Springs, MD.: American Zoo and Aquarium Association. Pp. 126-139.
- Hutchins M, Asa C. 2001. AZA conservation action partnerships: facilitating zoo and aquarium involvement in in situ conservation. In: Conway WG, Hutchins M, Souza M, Kapetanakos Y, Paul E, editors. *AZA field conservation resource guide*. Atlanta, GA.: Zoo Atlanta; p 19-21.
- Hutchins M, Ballentine J. 2001. Fueling the conservation engine: fund-raising and public relations. In: Conway WG, Hutchins M, Souza M, Kapetanakos Y, Paul E, editors. *The AZA field conservation resource guide*. Wildlife Conservation Society and Zoo Atlanta; p 268-71.
- Hutchins M, Conway WG. 1995. Beyond Noah's ark: the evolving role of modern zoological parks and aquariums in field conservation. *International Zoo Yearbook* 34:117-30.
- Hutchins M, Epler-Wood M, Fascione N, Mittermeier R, Basel J, Mills R, and Horwich R, 1995. Zoos, ecotourism and conservation: A panel discussion. *AZA American Zoo and Aquarium Association annual conference proceedings 1995*, Wheeling, WV.: American Zoo and Aquarium Association. Pp. 229-255.
- Hutchins M, Fascione N. 1993. What is it going to take to save wildlife? *Endangered Wildlife of the World*. Long Island, New York: Marshall-Cavendish; p 1408-10.
- Hutchins M, Foose TJ, Seal US. 1991. The role of veterinary medicine in endangered species conservation. *Journal of Zoo and Wildlife Medicine* 22:277-81.
- Hutchins M, Paul E, Bowdoin J. 1996. Contributions of zoos and aquarium research to wildlife conservation and science. In: Burhardt GM, Bielitski JT, Boyce J, Schaeffer DO, editors. *The well-being of animals in zoo and aquarium sponsored research*. Breenbelt, MD.: Scientists Centre for Animal Welfare; p 23-9.
- Hutchins M, Reagan T, Jamieson D, Geist V, Rowan AN, and Maple TL, 1992. Wildlife conservation and animal rights: Are they compatible?: A panel discussion. *AAZPA/CAZPA American Association of Zoological Parks and Aquariums / Canadian Association of Zoological Parks and Aquariums annual conference proceedings 1992*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 4-22.
- Hutchins M, Sheppard C, Lyles AM, Casadei G. 1995. Behavioral considerations in the captive management, propagation and reintroduction of endangered birds. In: Demarest J, Durrant BS, Gibbons EF, editors. *Captive conservation of endangered species*. Albany: State University of New York Press; p 263-89.
- Hutchins M, Smith B, Allard RA. 2003. In defense of zoos and aquariums: the ethical basis for keeping wild animals in captivity. *Journal of the American Veterinary Medical Association* 223(7):958-66.
- Hutchins M, Smith B, Allen ME, Souza M, Lankard J. 2002. *AZA annual report on conservation and science*. Washington, DC.: American Zoo and Aquarium Association.
- Hutchins M, Smith B. 2003. Characteristics of a world-class zoo or aquarium in the 21st century. *International Zoo Yearbook* 38:130-41.
- Hutchins M, Souza M. 2001. AZA's Conservation endowment fund: Zoos and aquariums supporting conservation action. In: Conway WG, Hutchins M, Souza M, Kapetanakos Y, Paul E, editors. *AZA field conservation resource guide*. Atlanta, GA.: Zoo Atlanta; p 291-302.
- Hutchins M, Stoinski T, Lukas K. 2005. Zoos and conservation: Moving beyond the piecemeal approach. In: Stoinski T, Steklis HD, Mehlman P, editors. *Conservation in the 21st century: Gorillas as a case study*. Kluwer Press.
- Hutchins M, Wemmer C. 1991. In defence of captive breeding. *Endangered Species Update* 8:5-6.
- Hutchins M, Wiese RJ, and Willis K, 1992. Beyond genetic and demographic management: Towards a unified AAZPA conservation program. *AAZPA / CAZPA American Association of Zoological Parks and Aquariums / Canadian Association of Zoological Parks and Aquariums annual conference proceedings 1992*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 4-22.
- Hutchins M, Wiese RJ, and Willis K, 1996. Why we need captive breeding. *AZA American Zoo and Aquarium Association regional conference proceedings 1996*, Wheeling, WV.: American Zoo and Aquarium Association. Pp. 77-86.
- Hutchins M, Wiese RJ, Willis K. 1997. Captive breeding and conservation (letter). *Conservation Biology* 11(1):3.
- Hutchins M, Wiese RJ, Willis K. 1997. Priority-setting for ex situ conservation. *Conservation Biology* 11(3):593-4.
- Hutchins M, Wiese RJ. 1991. Beyond genetic and demographic management: The future of the Species Survival plan and related AAZPA conservation efforts. *Zoo Biology* 10:285-92.
- Hutchins M, Willis K, Wiese RJ. 1995. Strategic collection planning: theory and practice. *Zoo Biology* 14:2-25.
- Hutchins M. 1995. What do "wild" and "captive" mean for large ungulate and carnivores now and into the twenty-first century? In: Rowan AN, editor. *Wildlife conservation, zoos and animal protection: a strategic analysis*. North Grafton, MA.: Tufts Centre for Animal and Public Policy; p 1-30.
- Hutchins M. 1996. Conservation fieldwork. In: Bell CE, editor. *Encyclopaedia of the world's zoos*. Chicago, IL.: Fitzroy Dearborn Publishers; p 299-303.
- Hutchins M. 1999. Zoos, aquariums and wildlife conservation: future trends and current challenges. In: Roth TL, Swanson WF, Blattman LK, editors. *Seventh world conference on breeding endangered species: Linking zoo and field research to advance conservation*. Cincinnati, USA p 1-4.
- Hutchins M. 2001. Research Overview . In: Bell C, editor. *Encyclopedia of the World's Zoos*. Chicago, IL.: Fitzroy Dearborn Press; p 1076-80.
- Hutchins M. 2003. Zoo and aquarium animal management and conservation: current trends and future challenges. *International Zoo Yearbook* 38:14-28.
- Hutchins M. 2006. Death at the zoo: The media, science, and reality. *Zoo Biology* 25(2):101-15.
- Hutchins M. 2007. The animal rights-conservation debate: can zoos and aquariums play a role? In: Zimmerman A, Hatchwell M, Dickie L, West C, editors. *Zoos in the 21st Century*. 15 1 ed. Cambridge: Cambridge University Press; p 92.
- Huxley E.J.G. 1981. *Whipsnade: captive breeding for survival*. London: Collins.
- Hyson J. 2003. No business like zoo business, Research is fine but show us the animals. *Washington Post*; 11/5/2003.
- International Union of Directors of Zoological Gardens / Captive Breeding Specialist Group (The World Conservation Union / Species Survival Commission). 1993. *The world zoo conservation strategy: the role of zoos and aquaria of the world in global conservation*. Brookfield, IL.: Chicago Zoological Society.

- International Zoo News. 1954 -. Chester, The North of England Zoological Society
- International Zoo News. 1996. Special Issue: Zoos and in situ conservation. *International Zoo News* 43(5):272-399.
- International Zoo Yearbook. 1959 -. London, Zoological Society of London
- Isernhart C. 1996. Is conservation education producing conservation behaviour? *AZA American Zoo and Aquarium Association annual conference proceedings 1996*, Wheeling, WV.: American Zoo and Aquarium Association. Pp. 597-600.
- Jackson A, Revington M. 2006. Wildlife and zoos. *Australian Veterinary Journal* 84(7):223-4.
- Jackson A. 2007. Be careful, it's a zoo out there. *Australian Veterinary Journal* 85(1-2).
- Jackson WM. 2001. Conservation training consortia: a consortium of the Field Museum, Chicago Zoological Society, University of Illinois, Chicago, John G. Shedd Aquarium, and University of Chicago. In: Conway WG, Hutchins M, Souza M, Kapetanakos Y, Paul E, editors. *AZA field conservation research guide*. Atlanta, GA.: Zoo Atlanta; p 236-9.
- James A, Gaston K, Balmford A. 1999. Balancing the Earth's accounts. *Nature* 401(323):324.
- Jamieson D. 1996. Zoos revisited. In: Norton BG, Hutchins M, Stevens EF, Maple TL, editors. *Ethics on the ark: Zoos, animal welfare and wildlife conservation*. Washington, DC.: Smithsonian Institution Press; p 52-68.
- Jarvis C. 1967. The value of zoos for science and conservation. *Oryx* 9(2):127-36.
- Jenkins M. 2003. Prospects for biodiversity. *Science* 302:1175-7.
- Jewell P. 1976. The contribution of the Zoological Society of London to field studies and prospects for the future. *Symposia of the Zoological Society of London*, Pp. 269-280.
- Johnson RR. 1994. Model programs for reproduction and management: *ex-situ* and *in-situ* conservation of toads of the family Bufonidae. In: Murphy JB, Adler K, Collins JT, editors. *Captive management and conservation of amphibians and reptiles*. Ithaca, NY.: Society for the Study of Amphibians and Reptiles; p 243-54.
- Joint Nature Conservation Committee. 2004 UK Biodiversity Action Plan. Joint Nature Conservation Committee www.ukbap.org.uk.
- Jones S. 1990. Captive propagation and reintroduction: a strategy for preserving endangered species? *Endangered Species Update* 1(1):1-88.
- Jungius H. 1985. Prospects for re-introduction. *Symposium of the Zoological Society of London* 54, Pp. 47-55.
- Karesh WB, Cook RA. 1995. Application of veterinary medicine to *in-situ* conservation efforts. *Oryx* 29:653-8.
- Karesh WB, Cook RA. 2001. Wildlife Conservation Society's field veterinary program. In: Conway WG, Hutchins M, Souza M, Kapetanakos Y, Paul E, editors. *AZA field conservation resource guide*. Atlanta, GA.: Zoo Atlanta; p 49-54.
- Kaufman L, Zaremba F. 1995. Conservation research at aquariums: The social contract. In: Wemmer C, editor. *The ark evolving: Zoos and aquariums in transition*. Front Royal, VA.: Smithsonian Institution Conservation and Research Centre; p 61-9.
- Kawata K. 1991. Long-term captive propagation of wild animals. 5. Reintroductions: myth and reality. *Animals and Zoos* 43(11):22-5.
- Kear J, Berger AJ. 1977. The problem of breeding endangered species in captivity. *International Zoo Yearbook* 17:5-14.
- Kellert SR, Dunlap J. 1989. Informal learning at the zoo: a study of attitude and knowledge impacts. Philadelphia: Zoological Society of Philadelphia.
- Kelly JD. 1997. Effective conservation in the twenty-first century: the need to be more than a zoo. One organisation's approach. *International Zoo Yearbook* 35:1-14.
- Kennedy KL. 2004. The role of federal guidance and federal partnerships in ex situ plant conservation in the United States. In: Guerrant EO, Havens K, Maunder M, editors. *Ex situ plant conservation: Tools for conserving wild populations*. Washington, D.C.: Island Press; p 67-83.
- Kenyon, K. 1994 Why zoos? - A bibliography. Washington, DC. Smithsonian Institution Libraries www.nal.usda.gov/awic/zoo/whyzoos.pdf.
- Kenyon, K. 1995 Reintroduction of captive animals into their native habitat: A bibliography. Washington, D.C. Smithsonian Institution Libraries www.nal.usda.gov/awic/zoo/reintrod.pdf.
- Kirkwood JK. 1994. Veterinary education for wildlife conservation, health and welfare. *Veterinary Record* 13(August):148-51.
- Kisling VN, Jr., 1992. Natural history for a new century: paraecology, grassroots conservation, and the role of the zoological park. *AZA American Association of Zoological Parks and Aquariums regional conference proceedings 1992*, Wheeling, WV.: American Zoo and Aquarium Association. Pp. 472-478.
- Kitchener A. 1997. Role of museums and zoos in conservation biology. *International Zoo Yearbook* 35:325-36.
- Kleiman DG, Beck BB, Dietz J, Dietz LA, Ballou J, Coimbra-Filhiu AF. 1986. Conservation program for the golden lion tamarin: captive research and management, ecological studies, educational strategies, and reintroduction. In: Benirschke K, editor. *Primates: the road to self-sustaining populations*. New York: Springer Verlag; p 959-79.
- Kleiman DG, Beck BB, Dietz J, Dietz LA. 1991. Costs of a reintroduction and criteria for success: accounting and accountability in the Golden Lion Tamarin Conservation programme. In: Gipps JHW, editor. *Beyond captive breeding: re-introducing endangered mammals to the wild*. Symposia, Zoological Society of London 62. Oxford: Clarendon Press; p 125-42.
- Kleiman DG, Stanley-Price MR, Beck BB. 1994. Criteria for reintroduction. In: Olney PJS, Mace GM, Feistner ATC, editors. *Creative conservation: Interactive management of wild and captive animals*. London: Chapman and Hal; p 287-303.
- Kleiman DG. 1986. Reintroduction of captive mammals for conservation. *Bioscience* 39:152-60.
- Kleiman DG. 1990. Decision making about a reintroduction: do appropriate conditions exist? *Endangered Species Update* 8(1):18-9.
- Kleiman DG. 1996. Reintroduction programs. In: Kleinman DG, Allen ME, Thompson KV, Lumpkin S, editors. *Wild animals in captivity*. Chicago: University of Chicago Press; p 297-305.
- Kleinman DG, Allen ME, Thompson KV, Lumpkin S, editors. 1996. *Wild mammals in captivity*. Chicago, IL.: University of Chicago Press.
- Knowles JM. 1985. Wild and captive population: triage, contraception and culling. *International Zoo Yearbook* 24/25:206-10.
- Knowles JM. 2003. Zoos and a century of change. *International Zoo Yearbook* 38:28-34.
- Koebner L. 1994. Zoo book: the evolution of wildlife conservation centres. New York: Tom Doherty Associates.
- Kraaijeveld-Smit FJL, Griffiths RA, Moore RD, Beebee TJC. 2006. Captive breeding and the fitness of reintroduced species: a test of the responses to predators in a threatened amphibian. *Journal of Applied Ecology* 43(2):360-5.
- Kramer RA, Mercer DE. 1997. Valuing a global environment good: US residents' willingness to pay to protect tropical rain forests. *Land Economics* 73:196-210.
- Krantz P. 2004. The WCMC dilemma. *AZA American Zoo and Aquariums Association Director's meeting 2004*.
- Kreger MD, Mench JA. 1995. Visitor-animal interactions at the zoo. *Anthrozoös* 8:143-58.

- Kremen C, Razafimahatratra V, Guillery P, Rakotomalala J, Weiss A, Ratsisompatairav, o J.S. 1999. Designing the Masoala National Park in Madagascar based on biological and socio-economic data. *Conservation Biology* 13(5):1055-68.
- Kristensen TN, Sorensen AC. 2007. Inbreeding - lessons from animal breeding, evolutionary biology and conservation genetics. *Animal Science* 80(Part 2):121-33.
- Kuhar CW. 2006. In the deep end: Pooling data and other statistical challenges of zoo and aquarium research. *Zoo Biology* 25(4):339-52.
- Lacy RC, Petric A, Warneke M. 1993. Inbreeding and outbreeding in captive populations of wild animal species. In: Thornhill NW, editor. *The natural history of inbreeding and outbreeding: theoretical and empirical perspectives*. Chicago, IL.: University of Chicago Press; p 352-74.
- Lacy RC. 1997. Importance of genetic variation to the viability of mammalian populations. *Journal of Mammology* 78:320-5.
- Lacy, R. C. 1997 GENES v.11.2 (software). Brookfield, IL. Chicago Zoological Society
- LaGasse AB. 1963. Tell me - why do we have zoos? *Parks & Recreation* 46(9):328-9.
- Lande R, Barrowclough GF. 1987. Effective population size, genetic variation, and their use in population management. In: Soulé ME, editor. *Viable populations for conservation*. Cambridge: Cambridge University Press; p 87-123.
- Lande R. 1995. Breeding plans for small populations based on the dynamics of quantitative genetics. In: Ballou JD, Gilpin M, Foose TJ, editors. *Population management for survival & recovery: analytical methods and strategies in small population conservation*. New York: Columbia University Press; p 318-40.
- Leader-Williams N, Balmford A, Linkie M, Mace GM, Smith RJ, Stevenson M, Walter O, West C, Zimmerman A. 2007. Beyond the ark: conservation biologists' views of the achievements of zoos in conservation. In: Zimmerman A, Hatchwell M, Dickie L, West C, editors. *Zoos in the 21st Century*. 15 1 ed. Cambridge: Cambridge University Press; p 236.
- Lee C, 1981. Articulating the value of zoos. *AAZPA American Association of Zoological Parks and Aquariums regional annual conference proceedings 1981*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 285-289.
- Lewis JC. 2007. Conservation medicine. In: Zimmerman A, Hatchwell M, Dickie L, West C, editors. *Zoos in the 21st Century*. 15 1 ed. Cambridge: Cambridge University Press; p 192.
- Lieberman GA, 1985. The world conservation strategy and the role of international agencies. *AAZPA American Association of Zoological Parks and Aquariums annual conference proceedings 1985*, Wheeling, WV.: American Association of Zoological Parks and Aquariums.
- Lindberg DG. 1992. Are wildlife reintroductions worth the cost? *Zoo Biology* 11:1-2.
- Lindemann-Matties P, Kamer T. 2006. The influence of an interactive educational approach on visitors' learning in a Swiss zoo. *Science Education* 90(2):296-315.
- Loftin R. 1966. Captive breeding of endangered species. In: Norton BG, Hutchins M, Stevens EF, Maple TL, editors. *Ethics on the ark: zoos, animal welfare and wildlife conservation*. Washington, D.C.: Smithsonian Institution Press; p 164-80.
- Lovejoy TE. 1974. The function of zoological gardens. *Jersey Wildlife Preservation Trust annual report* 11:14-5.
- Lovejoy TE. 1979. The twenty first century bestiary. *Dodo* 16:8-11.
- Lovejoy TE. 1980. Tomorrow's ark: by invitation only. *International Zoo Yearbook* 20:181-4.
- Lukas J. 1994. Animal well-being in zoos, conservation centres and in-situ conservation programmes. In: Rowan AN, editor. *Wildlife Conservation, zoos and animal protection - A strategic analysis*. Yulee, FL.: White Oak Conservation Centre.
- Luoma J. 1982. Prison or ark? *Audubon* 85(6):102-9.
- Luoma J. 1987. A crowded ark: the role of zoos in wildlife conservation. Boston, MA.: Houghton Mifflin.
- Luoma J. 1992. Born to be wild. *Audubon* 94(1):50-3.
- Lyles AM, May RM. 1987. Problems in leaving the ark. *Nature* 326:245-6.
- Lyon EH, Pate D, editors. 1999. AZA North American regional collection plan for old world monkeys. Chicago, IL.: Lincoln Park Zoo.
- Mace GM, Balmford A, Leader-Williams N, Manica A, Walter O, West C, Zimmerman A. 2007. Measuring conservation success: assessing zoos' contribution. In: Zimmerman A, Hatchwell M, Dickie L, West C, editors. *Zoos in the 21st Century*. 15 1 ed. Cambridge: Cambridge University Press; p 322.
- Mace GM, Pearce-Kelly P, Clarke D. 1998. An integrated conservation program for the Tree Snail (Partulidae) of Polynesia: a review of captive and wild elements. *Journal of Conchology* S2:89-96.
- MacKinnon J, MacKinnon K, Child G, Thorsell J. 1986. Managing protected areas in the tropics. Gland: The World Conservation Union.
- Mackinnon K, MacKinnon J. 1991. Habitat protection and reintroduction programmes. In: Gipps JHW, editor. *Beyond captive breeding: re-introducing endangered mammals to the wild*. Symposia, Zoological Society of London 62. Oxford: Clarendon Press; p 173-98.
- Maclin D. 1990. Last bastions of hope - Part2. *Conservation Now* 1:27-29. *Conservation Now* 1:27-9.
- Magin CD, Johnson TH, Groombridge B, Jenkins M, Smith H. 1994. Species extinctions, endangerment and captive breeding. In: Olney PJS, Mace GM, Feistner ATC, editors. *Creative conservation: Interactive management of wild and captive animals*. London: Chapman and Hall; p 3-31.
- Maguire LA, Lacy RC. 1990. Allocating scarce resources for conservation of endangered subspecies: Partitioning zoo space for tigers. *Conservation Biology* 4:157-66.
- Maguire LA, Seal US, Brussard PF. 1987. Managing critically endangered species: the Sumatran Rhino as a case study. In: Soulé ME, editor. *Viable populations for conservation*. Cambridge: Cambridge University Press; p 3-31.
- Mainka SA. 2001. The veterinarian's role in biodiversity conservation. *Journal of Zoo and Wildlife Medicine* 32(2):165-7.
- Maitland PS, Evans D. 1986. The role of captive breeding in the conservation of fish species. *International Zoo Yearbook* 24/25:66-74.
- Malamud R. 1998. Reading zoos, representations of animals and captivity. New York: New York University Press.
- Mallinson JJC, 1998. The diverse role of zoos in a changing world: From zoological parks to conservation centres. *AAZPA / ASZK Australian Regional Association of Zoological Parks and Aquariums & The Australian Society of Zoo Keeping conference proceedings 1998*, Sydney: Taronga Zoo. Pp. 9-19.
- Mallinson JJC, Feistner ATC. 1995. Captive propagation and effective conservation. *Biodiversity and Conservation* 4(6):535.
- Mallinson JJC, Hartley JRM. 1997. Ethics on the ark: zoos, animal welfare and animal conservation. *Biodiversity and Conservation* 6(6):896-7.
- Mallinson JJC, Martin RD, Mace GM, Bennett PM, Kirkwood JK. 1987. The role of zoos in conservation and research. *International Journal of Primatology* 8(5):406.

- Mallinson JJC. 1973. Zoo's role in conservation. *Jersey Wildlife Preservation Trust* 10:93-6.
- Mallinson JJC. 1980. National and international zoo co-operation: an example from the Jersey Wildlife Preservation Trust. *International Zoo Yearbook* 20:179-80.
- Mallinson JJC. 1984. Survival reservoirs for endangered species: the conservation of a modern zoo. *Biologist* 31:79-84.
- Mallinson JJC. 1988. Collaboration for conservation between the Jersey Wildlife Preservation Trust and countries where species are endangered. *International Zoo Yearbook* 27(176):191.
- Mallinson JJC. 1991. 'Flagship' species aiding the conservation of animals and associated habitats. *International Union of Directors of Zoological Gardens annual conference (1990) scientific proceedings*:104-13.
- Mallinson JJC. 1991. Partnerships for conservation between zoos, local government and non-governmental organisations. In: Gipps JHW, editor. *Beyond captive breeding: re-introducing endangered mammals to the wild*. Symposia, Zoological Society of London 62. Oxford: Clarendon Press; p 57-74.
- Mallinson JJC. 1993. Coordinated breeding programmes for endangered species with special reference to continental Europe and the British Isles. *Dodo* 29:11-22.
- Mallinson JJC. 1993. The role of zoos in global conservation with special reference to captive breeding and environmental education. In: Solomon D, editor. *Our endangered environment*. Harare: Birds of a Feather/Sunlink International.
- Mallinson JJC. 1995. Conservation breeding programmes: an important ingredient for species survival. *Biodiversity and Conservation* 4(6):617-35.
- Mallinson JJC. 1995. Strategic collection planning: an international evolutionary process. *Zoo Biology* 14(1):31-5.
- Mallinson JJC. 1995. Zoo breeding programmes: balancing conservation and animal welfare. *Dodo* 31:66-75.
- Mallinson JJC. 1996. The development of cooperative partnerships in support of in situ conservation programmes. *International Zoo News* 43(5):389-99.
- Mallinson JJC. 1997. Partnerships in conservation. *Dodo* 33:8-13.
- Mallinson JJC. 2001. Saving Brazil's Atlantic rainforest: using the golden-headed lion tamarin *Leontopithecus chrysomelas* as a flagship for a biodiversity hotspot. *Dodo* 37:9-20.
- Mankin PC, Warner RE, Anderson WL. 1999. Wildlife and the Illinois public: a benchmark study of attitudes and perceptions. *Wildlife Society Bulletin* 27:465-72.
- Marcellini DL, Jenssen TA. 1988. Visitor behavior in the National zoo's reptile house. *Zoo Biology* 7:329-38.
- Martin RD, editor. 1975. *Breeding endangered species in captivity*. London: Academic Press.
- Matola S, 1986. The decrease of biological diversity in the tropics: what zoos in developing countries can do to help reverse the trend. *AAZPA American Association of Zoological Parks and Aquariums annual conference proceedings 1986*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 170-172.
- Matsuura K. 2006. Collection building and its management in zoology. *Zoological Science* 23(12):1140-1.
- Maunder M, Stanley-Price MR, Soorae PS, Mashuari S. 2002. The role of tropical botanic gardens in supporting species and habitat recovery: East African opportunities. In: Maunder M, Hankamer C, Clubbe C, Groves M, editors. *Plant conservation in the tropics: principles and experiences*. Kew: Royal Botanic Gardens; p 115-34.
- Maunder M, Stanley-Price MR, Soorae PS. 1999. The role of in-country ex-situ facilities in supporting species and habitat recovery: some perspectives from East Africa. In: Roth TL, Swanson WF, Blattman LK, editors. *Seventh world conference on breeding endangered species: linking zoo and field research to advance conservation*. Cincinnati: Cincinnati Zoo; p 31-47.
- Maunder M, Byers O. 2005. The IUCN technical guidelines on the management of ex situ populations for conservation: reflecting major changes in the application of ex situ conservation. *Oryx* 39(1):95-8.
- May RM, 1991. The role of ecological theory in planning re-introductions of endangered species. *Symposia of the Zoological Society of London* 62, Oxford: Clarendon Press. Pp. 145-163.
- May RM. 1986. The cautionary tale of the black-footed ferret. *Nature* 320:13-4.
- Mazur NA, Clark TW. 2000. Zoos and conservation: Policy making and organisational challenges. *Yale Forestry and Environmental Sciences Bulletin* 105:1-17.
- Mazur NA. 1996. Zoos, conservation groups, and government wildlife agencies: partners, colleagues, or adversaries. In: Saunders DA, Craig JL, Matisse EM, editors. *Nature conservation: the role of networks*. Chipping Norton, NSW, Australia: Surrey Beatty and Sons.
- Mazur NA. 2001. *After the ark? Environmental policy-making and the zoo*. Australia: Melbourne University Press.
- McAllister E, 2000. Small but good: How a small zoo can go a long way in in situ conservation programs. *Minutes of the scientific session of the 57th annual conference of the World Association of Zoos and Aquariums*, Palm Desert, California.: World Association of Zoos and Aquariums. Pp. 5.
- McDougall PT, Reale D, Sol D, Reader SM. 2006. Wildlife conservation and animal temperament: causes and consequences of evolutionary change for captive, reintroduced, and wild populations. *Animal Conservation* 9(1):39-48.
- McGregor Reid G. 1995. Conserving fishes and aquatic invertebrates: Chester Zoo Aquarium and the FAI Taxon Advisory Group. *International Zoo Yearbook* 34(52):59.
- McGregor Reid G. 2001. Conservation in the growth and development of public aquaria. *Bulletin de l'Institut océanographique* 20(2):83-9.
- McGregor Reid G. 2007. Will zoo and aquarium educators help ensure the survival of amphibians threatened by a global plague? *Journal of the International Zoo Educators Association* 43:28-32
- McGregor Reid G. 2001. Marketing zoos beyond 2000. *WAZA Newsletter* 2:9.
- McGregor Reid G. 2007. Science in Zoos and Aquariums. *Science in Parliament* 64(2):6-7.
- McHenry T, Brady W, Candland D, Echeverra J, Ferguson J, Janson J, Koontz F, Jolly A, Mars V, Model A, Pearl M, Tuten J. 1999. *Wildlife Preservation Trust International's conservation perspective and strategic directions*. *Dodo* 35:116-23.
- McKenna V, Travers K, Fray J, editors. 1987. *Beyond the bars, the zoo dilemma*. London: Thorsons.
- Mcnamara T. 2007. The role of zoos in biosurveillance. *International Zoo Yearbook* 41(1):12-5.
- Meeks WW. 1996. *Beyond the ark: tools for an ecosystem approach*. Washington, D.C.: Island Press.
- Meffert LM, Mukana N, Hicks SK, Day SB. 2005. Testing alternative captive breeding strategies with the subsequent release in to the wild. *Zoo Biology* 24(4):375-92.

- Melfi VA, McCormick W, Gibbs A. 2004. A preliminary assessment of how zoo visitors evaluate animal welfare according to enclosure style and the expression of behaviour. *Anthrozoös* 17(2):98-108.
- Melfi VA, Thomas S. 2005. Can training zoo-housed primates compromise their conservation? A case study using Abyssinian colobus monkeys (*Colobus guereza*). *Anthrozoös* 18(3):304-17.
- Merrit D. 1987. Latin American conservation: what zoos and aquariums can do. *AAZPA American Association of Zoological Parks & Aquariums regional conference proceedings 1987*, Wheeling, WV.: World Association of Zoos and Aquariums. Pp. 526-529.
- Midgeley M. 1987. Keeping species on ice. In: McKenna V, Travers W, Wray J, editors. *Beyond the bars. The zoo dilemma*. Wellingborough: Thorsons.
- Miller B, Conway WG, Reading RP, Wemmer C, Wildt D, Kleinman DG, Monfort S, Rabinowitz A, Armstrong B, Hutchins M. 2004. Evaluating the conservation mission of zoos, aquariums, botanical gardens and natural history museums. *Conservation Biology* 18(1):86-93.
- Miller B, Reading RP, and Forrest S. 1996. *Prairie night, Black-footed Ferrets and the recovery of endangered species*. Washington, DC.: Smithsonian Institution Press.
- Miller B, Reading RP, Conway WG, Jackson JA, Hutchins M, Snyder NFR, Forrest S, Frazier J. 1994. A model for improving endangered species recovery programs. *Journal of Environmental Management* 18:637-45.
- Miller B, Vargas A, Hanesbury L, Hutchins M, Godbey J, Anderson S, Oldmeier J. 1998. The captive environment and reintroduction: The Black-footed Ferret as a case study with comments on other taxa. In: Shepherdson D, Mellen J, Hutchins M, editors. *Second Nature: Environmental enrichment for captive animals*. Washington, DC.: Smithsonian Institution Press; p 97-112.
- Miller JR, Hobbs RJ. 2002. Conservation where people live and work. *Conservation Biology* 16(2):330-7.
- Mitchell G. 1991. Conserving biological diversity. A view from the zoo. *Today's Life Science* October.
- Mole E. 2005. Why should zoos be interested in the Global Strategy for Plant Conservation? *EAZA News* 49:27.
- Moore B, Marsh I, Wallis W, Foley W. 2005. Taught by animals: how understanding diet selection leads to better zoo diets. *International Zoo Yearbook* 39(1):43-61.
- Moore D, Wiese RJ. 1994. The role of zoos and aquariums in the conservation of biodiversity. In: Majumdar SK, Brenner FJ, Lovich JE, Schalles JF, Miller EW, editors. *Biological Diversity: Problems and Challenges*. Easton, PA: Pennsylvania Academy of Sciences; p 253-64.
- Moore HD, Holt WV, and Mace GM. 1992. Biotechnology and the conservation of genetic diversity. *Symposia of the Zoological Society of London 64*, Oxford: Clarendon Press. Pp. xiii-240.
- Morgan JM, Gramann JH. 1989. Predicting effectiveness of wildlife education programs: A study of students' attitudes and knowledge towards snakes. *Wildlife Society Bulletin* 17:501-9.
- Morgan JM, Hodgkinson M. 1999. The motivation and social orientation of visitors attending a contemporary zoological park. *Environment and Behavior* 31(2):227-39.
- Morris PA. 1986. An introduction to reintroductions. *Mammal Review* 16:49-52.
- Myers N. 1979. *The sinking Ark: a new look at the problem of disappearing species*. New York: Pergamon Press.
- Nabhan GP, St. Antoine, S. 1993. The loss of floral and faunal story: the extinctions of experience. In: Kellert SR, Wilson EO, editors. *The Biophilia Hypothesis*. Washington, DC.: Island Press; p 229-50.
- Nardelli F. 1988. The zoo - last haven, last chance? *International Zoo News* 35(1):17-24.
- Neesham C. 1990. All the world's a zoo. *New Scientist* 127(1730):31-5.
- Norton BG, Hutchins M, Stevens EF, Maple TL, editors. 1996. *Ethics on the ark: zoos, animal welfare and wildlife conservation*. Washington, D.C.: Smithsonian Institution Press.
- Ollason RJ. 1993. Getting the message across. *Journal of the International Association of Zoo Educators* 29:186-90.
- Olney PJS, Mace GM, Feistner ATC, editors. 2005. *Creative conservation: Interactive management of wild and captive animals*. London: Chapman and Hall.
- Olney PJS. 2003. Zoo Challenges: past, present and future. *International Zoo Yearbook* 38:1-3.
- Ormsrod S. 1994. Showboat as Ark. *BBC Wildlife* 12:40-4.
- Ormsrod S. 1994. The modern zoo - ark or showboat? *International Zoo News* 41(7):5-11.
- Osborn F. 1966. Wildlife conservation. *Parks & Recreation* 8:646-7.
- Osovsky A. 1997. Think link: Critically evaluating linkages between conservation projects and development. *Journal of Zoo and Wildlife Medicine* 28(2):141-3.
- Ounsted MI. 1991. Re-introducing birds: lessons to be learned for mammals. In: Gipps JHW, editor. *Beyond captive breeding: re-introducing endangered mammals to the wild*. Symposia, Zoological Society of London 62. Oxford: Clarendon Press; p 75-85.
- Parker P. 1992. The Chicago Zoological Society's affair with Australian conservation. *Bison* 6(12):19.
- Pearce-Kelly P, Clarke D, Robertson M, Andrews C. 1991. The display, culture and conservation of invertebrates at London Zoo. *International Zoo Yearbook* 30:21-30.
- Pearce-Kelly P. 1994. Invertebrate propagation and re-establishment programmes: The conservation and education potential for zoos and related institutions. In: Olney PJS, Mace GM, Feistner ATC, editors. *Creative conservation: Interactive management of wild and captive animals*. London: Chapman and Hall; p 329-37.
- Philippart JC. 1995. Is captive breeding an effective solution for the preservation of endemic species? *Biological Conservation* 72:281-95.
- Pinder NJ, Barkham JP. 1978. An assessment of the contribution of captive breeding to the conservation of rare mammals. *Biological Conservation* 13:187-243.
- Piropato C. 1992. Zoo to community conservation: bringing the message to your home town. *AAZPA American Association of Zoological Parks and Aquariums annual conference proceedings 1992*, Wheeling, WV.: World Association of Zoos and Aquariums. Pp. 249-253.
- Plowman AB, Stevens PMC, editors. 1999. *Conservation centers for the new millennium: proceedings of the 5th international symposium on zoo design*. Paignton: Whitley Wildlife Conservation Trust.
- Pollak, J. P., Lacy, R. C., and Ballou, J. D. 2002 *Population management 2000*, version 1.205 (software). Brookfield, IL. Chicago Zoological Society
- Povilitis T. 1991. Is captive breeding an appropriate strategy for endangered species conservation? *Endangered Species Update* 8(1):20-3.

- Princée, F. P. G. 1990 Zoo research studbook management program version 1.04 (software and updated manual). Amsterdam. National Foundation for Research in Zoological Gardens
- Puan CL, Zakaria M. 2007. Perception of visitors towards the role of zoos: a Malaysian perspective. *International Zoo Yearbook* 41(1):226-32.
- Rabb GB, 1985. Facing up to conservation education. *AAZPA American Association of Zoological Parks and Aquariums annual conference proceedings 985*, Wheeling, WV.: American Association of Zoological Parks and Aquariums.
- Rabb GB, 2000. Zoos and aquariums as conservation centers and centers of care. *Minutes of the scientific session section 55th annual conference The World Association of Zoos and Aquariums*, Palm Springs, CA.: World Association of Zoos and Aquariums. Pp. 1-24.
- Rabb GB, Saunders CD. 2005. The future of zoos and aquariums: conservation and caring. *International Zoo Yearbook* 39(1):1-26.
- Rabb GB, Sullivan TA. 1995. Coordinating conservation: global networking for species survival. *Biodiversity and Conservation* 4(6):536-43.
- Rabb GB. 1992. *Evolution of Zoos*. Chicago, IL.: Chicago Zoological Society.
- Rabb GB. 1994. The changing roles of zoological parks in conserving biological diversity. *American Zoologist* 34:159-64.
- Rabinowitz A. 1993. *A wildlife field research and conservation training manual*. New York: The Wildlife Conservation Society.
- Rabinowitz A. 1995. Helping a species go extinct: the Sumatran Rhino in Borneo. *Conservation Biology* 9:482-8.
- Rahbek C. 1993. Captive breeding - a useful tool in the preservation of biodiversity? *Biodiversity and Conservation* 2:426-37.
- Ralls K, Ballou J. 1983. Extinctions: lessons from zoos. In: Schoenwald-Cox SM, Chambers SM, MacBride B, Thomas L, editors. *Genetics and Conservation*. Menlo Park, California: Benjamin/Cummings; p 164-84.
- Ralls K, Ballou JD, Templeton A. 1988. Estimates of lethal equivalents and cost of inbreeding in mammals. *Conservation Biology* 2(2):185-93.
- Read B, Asa C. 2001. Field research and conservation initiatives. In: Conway WG, Hutchins M, Souza M, Kapetanacos Y, Paul E, editors. *AZA field conservation resource guide*. Atlanta, GA.: Zoo Atlanta; p 10-3.
- Redrobe SP. 2007. Avian influenza H5N1: a review of the current situation and relevance to zoos. *International Zoo Yearbook* 41(1):96-109.
- Reed D, O'Grady J, Brook B, Ballou J, Frankham R. 2003. Estimates of minimum viable population sizes for vertebrates and factors influencing those estimates. *Biological Conservation* 113:23-34.
- Rees PA. 2005. Towards a research-based conservation identity for zoos - a reply to Wehnelt and Wilkinson, and Thomas. *Oryx* 39(2):135-6.
- Rees PA. 2005. Will the EC zoos directive increase the conservation value of zoo research? *Oryx* 39(2):128-31.
- Regan T. 1996. Are zoos morally defensible? In: Norton BG, Hutchins M, Stevens EF, Maple TL, editors. *Ethics on the ark: Zoos, animal welfare and wildlife conservation*. Washington, D.C.: Smithsonian Institution Press; p 195-208.
- Reintroduction News, newsletter of the IUCN/SSC reintroduction specialist group. 1990 -. The World Conservation Union / Species Survival Commission / Reintroduction Specialist Group
- Rhoades DS, 1986. Conservation methods: a search for a global consensus. *AAZPA American Association of Zoological Parks and Aquariums annual conference proceedings 1986*, Wheeling, WV.: 1986.
- Rhoades DS, Goldsworthy R. 1979. The effects of zoo environments on public attitudes towards endangered wildlife. *International Journal of Environmental Studies* 13:283-7.
- Roberge JM, Angelstam P. 2004. Usefulness of the umbrella species concept as a conservation tool. *Conservation Biology* 18(10):76-85.
- Robinson JG, Wemmer C. 2001. Conserving Wumpats: The role of partners and partnerships. In: Conway WG, Hutchins M, Souza M, Kapetanacos Y, Paul E, editors. *AZA field conservation resource guide*. Atlanta, GA.: Zoo Atlanta; p 118-23.
- Robinson MH, 1986. Zoos today and tomorrow. *AAZPA American Association of Zoological Parks and Aquariums regional conference proceedings 1986*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 527-530.
- Robinson MH, 1991. Animal Rights, objections to zoos, and the evolution of the biopark. *IUDZG International Union of Directors of Zoological Gardens annual conference scientific proceedings 1990*, International Union of Directors of Zoological Gardens. Pp. 18-45.
- Robinson MH. 1987. Beyond the zoo: The biopark. *Defenders* 62(6).
- Robinson MH. 1988. Bioscience education through bioparks. *Bioscience* 38:630-4.
- Robinson MH. 1988. Building the biopark. *Zoogoer* 17:4-10.
- Robinson MH. 1995. Global change, the future of biodiversity and the future of zoos. *Biological Conservation* 72(3):409.
- Robinson MH. 2001. Adapt or perish? Zoos must choose. *Science* 292:1304-5.
- Root C. 1969. Concentrates and conservation in the zoo. *New Scientist* 46:423-5.
- Ross SR, Lonsdorf TS, Stoinski T. 2007. Assessing the welfare implications of visitors in a zoo setting: A comment on Wells (2005). *Applied Animal Behaviour Science* 102(1-2):130-3.
- Rowan AN, editor. 2005. *Wildlife conservation, zoos and animal protection: a strategic analysis*. North Grafton, MA.: Tufts Centre for Animal and Public Policy.
- Rowan AN, Hoage R. 1995. Public attitudes towards wildlife: The awakening awareness. In: Wemmer C, editor. *The ark evolving: Zoos and aquariums in transition*. Washington, D.C.: Smithsonian Institution.
- Rübel A, Hatchwell M, MacKinnon J. 2003. *Masoala: The eye of the forest. A new strategy for rainforest conservation in Madagascar*. Stäfa, Switzerland: Th. Gut Verlag.
- Rudran R, Wemmer C. 2001. Teaching conservation biology to developing country nationals: the National Zoo's experience. In: Conway WG, Hutchins M, Souza M, Kapetanacos Y, Paul E, editors. *American Zoo and Aquarium Association field conservation research guide*. Wildlife Conservation Society and Zoo Atlanta; p 240-4.
- Ryder OA, Feistner ATC. 1995. Research in zoos: a growth area in conservation. *Biodiversity and Conservation* 4(6):671-7.
- Ryder OA, Shaw JH, Wemmer C. 1988. Species, subspecies and ex situ conservation. *International Zoo Yearbook* 27:134-40.
- Ryder OA. 1995. Zoological parks and the conservation of biological diversity: linking ex situ and in situ conservation efforts. *Journal of Environment and Development* 4:105-20.
- Ryder OA. 2003. Genetic studies in zoological parks and their application to conservation; past, present and future. *International Zoo Yearbook* 38:102-11.

- Sanderson E, Malanding J, Levy M, Redford K, Wannebo A, Woolmer G. 2002. The human footprint and the last of the wild. *Bioscience* 52(10):891-904.
- Saunders CD, Stuart-Perry HE. 1997. Summative evaluation of The Swamp: A conservation exhibit with a big idea. *Visitor Behavior* 12(1,2):4-7.
- Schaff CD. 1994. The role of zoological parks in biodiversity conservation in the Gulf of Guinea Islands. *Biodiversity and Conservation* 3(9):962-8.
- Schaller GB. 1983. *The last panda*. Chicago, IL.: University of Chicago Press.
- Schneider RM. 1969. The zoo's changing role. *Parks & Recreation* 4(9):41-4.
- Schwarzenberger F. 2007. The many uses of non-invasive faecal steroid monitoring in zoo and wildlife species. *International Zoo Yearbook* 41(1):52-74.
- Scigliano E. 2003. Whose Zoo. *Seattle Weekly*;11-17 June 2003.
- Scott P. 1967. The role of zoos in wildlife conservation. *Oryx* 9(2):82-6.
- Seal US and Flesness NR, 1979. Noah's Ark - sex and survival. *AAZPA American Association of Zoological Parks and Aquariums conference proceedings 1979*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 214-228.
- Seal US, 1986. How zoos and aquariums can help to maintain biological diversity. *AAZPA American Association of Zoological Parks and Aquariums annual conference proceedings 1986*, Wheeling, WV.: 1986. Pp. 70-76.
- Seal US, Ellis SA, Foose TJ, Byers AP. 1993. Conservation Assessment and Management Plans (CAMPs) and Global Conservation Action Plans (GCAPS). *CBSG News* 4(2):5-10.
- Seal US, Foose TJ, Ellis SA. 1994. Conservation assessment and management plans. In: Olney PJS, Mace GM, Feistner ATC, editors. *Creative conservation: Interactive management of wild and captive animals*. London: Chapman and Hall; p 312-25.
- Seal US, Foose TJ. 1991. Captive Breeding Specialist Group. *Species* 17:77-9.
- Seal US. 1986. Goals of captive propagation programmes for the conservation of endangered species. *International Zoo Yearbook* 24/25:174-9.
- Seal US. 1988. Intensive technology in the care of *ex-situ* populations of vanishing species. In: Wilson EO, editor. *Biodiversity*. Washington, DC.: National Academy Press; p 269-95.
- Seddon P, Armstrong D, Maloney R. 2007. Developing the science of reintroduction biology. *Conservation Biology* 21(2):303-12.
- Seidman M. 1992. Zoos and the psychology of extinction. *Wild Earth* 2(4):64-9.
- Senior K, Gewin V, Parks N. 2007. Captive breeding leads to mixed success. *Frontiers in Ecology & the Environment* 5(3):116.
- Shepherdson D. 1990. Beyond captive breeding: reintroducing endangered species to the wild. *International Zoo News* 37(2):4-8.
- Shepherdson D. 1994. The role of environmental enrichment in the captive breeding and reintroduction of endangered species. In: Olney PJS, Mace GM, Feistner ATC, editors. *Creative conservation: Interactive management of wild and captive animals*. London: Chapman and Hall; p 167-75.
- Sheppard C. 1995. Propagation of endangered birds in US institutions: How much space is there? *Zoo Biology* 14:197-210.
- Sheppard D. 2005. Conservation begins at home. *LifeLines* 90:14.
- Smith B and Allard RA, 1999. Regional collection plan: lifeboat or dinghy. *AZA American Zoo and Aquarium Association annual conference proceedings 1999*, Silver Spring, MD.: American Zoo and Aquarium Association. Pp. 75-79.
- Smith B, Hutchins M. 1999. The value of captive breeding programmes to field conservation: Elephants as an example. *Pachyderm* 26:101-9.
- Smith B, Hutchins M. 2001. Species Survival Plans. In: Bell C, editor. *Encyclopedia of the World's Zoos*. Chicago, IL.: Fitzroy Dearborn Press; p 1168-70.
- Smith B, Hutchins M. 2002. Cooperative population management: AZA's species survival plans. *WAZA Magazine* 1:8-11.
- Smith LJ, 1968. Conservation teaching in zoological gardens. *IUDZG International Union of Directors of Zoological Gardens annual meeting proceedings 1968*, International Union of Directors of Zoological Gardens. Pp. 36-42.
- Snyder NFR, Derrickson S, Beissinger SR, Wiley JW, Smith TB, Toone WD, Miller B. 1996. Limitations of captive breeding in endangered species recovery. *Conservation Biology* 10(2):338-348. *Conservation Biology* 10(2):338-48.
- Snyder NFR. 1995. A much improved conservation role for zoos. *Zoo Biology* 14:36-8.
- Soorae, P. S. 2002 The IUCN/SSC Re-introduction Specialist Group (RSG) literature database. IUCN/SSC Re-introduction Specialist Group www.iucn.org/themes/ssc/sqs/rsg/rsqcdrom/PDFs/RSGBibliography.pdf.
- Soulé ME, Gilpin M, Conway WG, Foose TJ. 1986. The millennium ark: how long a voyage, how many staterooms, how many passengers? *Zoo Biology* 5:101-14.
- Spote S, Clark P. 2004. A knowledge-based survey of adult aquarium visitors. *Human Dimensions of Wildlife* 9:143-51.
- Stanley-Price MR, Fa JE. 2007. Reintroductions from zoos: a conservation guiding light or a shooting star? In: Zimmerman A, Hatchwell M, Dickie L, West C, editors. *Zoos in the 21st Century*. 15 1 ed. Cambridge: Cambridge University Press; p 155.
- Stanley-Price MR, Maunder M, Soorae PS. 2004. Ex situ support to the conservation of wild populations and habitats: lessons from zoos and opportunities for botanic gardens. In: Guerrant EO, Havens K, Maunder M, editors. *Ex situ plant conservation: Tools for conserving wild populations*. Washington, D.C.: Island Press; p 84-110.
- Stanley-Price MR. 1991. A review of mammal re-introductions, and the role of the Re-introduction Specialist Group of the IUCN/SSC. In: Gipps JHW, editor. *Beyond captive breeding: re-introducing endangered mammals to the wild*. pp. 9-25. *Symposia Zoological Society of London* 62. Oxford: Clarendon Press; p 27-37.
- Stanley-Price MR. 2005. Zoos as a force for conservation: a simple ambition - but how? *Oryx* 39(2):109-10.
- Sterling E, Lee J, Wood T. 2007. Conservation education in zoos: an emphasis on behavioural change. In: Zimmerman A, Hatchwell M, Dickie L, West C, editors. *Zoos in the 21st Century*. 15 1 ed. Cambridge: Cambridge University Press; p 37.
- Stevens E, Ogden J, Sams K. 2007. Creating a culture of conservation: a case study of a backyard approach. In: Zimmerman A, Hatchwell M, Dickie L, West C, editors. *Zoos in the 21st Century*. 15 1 ed. Cambridge: Cambridge University Press; p 110.
- Stevens EF, Hutchins M, Maple TL. 1996. The AZA's conservation programs: How are they organised? *Endangered Species Update* 13:10-2.
- Stevens EF, Hutchins M, Maple TL. 1996. Zoos, aquariums and endangered species conservation. *Endangered Species Update* 13:7-9.
- Stevens P. 1999. Zoos for the 21st century. In: Plowman AB, Stevens PMC, editors. *Conservation centers for the new millennium: proceedings of the 5th international symposium on zoo design*. Paignton, UK: Whitley Wildlife Conservation Trust.

- Stuart SN. 1991. Re-introductions: to what extent are they needed? In: Gipps JHW, editor. Beyond captive breeding: re-introducing endangered mammals to the wild. Symposia Zoological Society of London 62. Oxford: Clarendon Press; p 27-37.
- Sundquist F. 1993. Should we put them all back? *International Wildlife* 23:34-40.
- Sundquist F. 1995. End of the ark? Captive breeding is out; conservation in the wild is in. *International Wildlife* 25(6):22-9.
- Swanagan J. 2000. An assessment of factors influencing zoo visitors' conservation attitudes and behaviour. *Journal of Environmental Education* 31(4):26-31.
- Tangley L. 1984. The zoo ark charting a new course. *Bioscience* Nov:606-12.
- Tarpy C. 1993. New zoos: taking down the bars. *National Geographic* 184(1):2-37.
- Tate J. 1991. Captive propagation and the conservation of species: A U.S. Fish and Wildlife Service perspective. *Endangered Species Update* 8(1):30-1.
- Teixera C, De Azevedo C, Mendl M, Cipreste C, Young RJ. 2007. Revisiting translocation and reintroduction programmes: the importance of considering stress. *Animal Behaviour* 73(Part 1):1-13.
- The World Conservation Union / Species Survival Commission Cat Specialist Group. IUCN/SSC cat projects database (unpub.). London. Zoological Society of London
- The World Conservation Union / Species Survival Commission. 1987. The IUCN policy statement on captive breeding. Gland: The World Conservation Union.
- The World Conservation Union / Species Survival Commission. 1991. A global network for species survival. Gland: The World Conservation Union.
- The World Conservation Union. 1987. Introductions, Re-introductions and Re-stocking. The IUCN position statement on translocation of living organisms. Gland: The World Conservation Union.
- The World Conservation Union. 1998. IUCN Guidelines for re-introductions. Cambridge: The World Conservation Union.
- The World Conservation Union. 2002. IUCN Technical guidelines on the management of ex situ populations for conservation. Gland: The World Conservation Union.
- The World Conservation Union. IUCN Red List of Threatened Species. Gland. The World Conservation Union www.redlist.org.
- Thomas R. 2005. Internal drive vs external directive: the delivery of conservation through zoo-based research - a response to Rees. *Oryx* 39(2):134.
- Thomas WD, Downing G. 1961. Role of the zoo in public education. *Parks & Recreation* 44(7):314-5.
- Thompson S. 1993. Zoo research and conservation: Beyond sperm and egg towards the science of animal management. *Zoo Biology* 12:155-9.
- Thorne ET and Oakleaf B. 1991. Species rescue for captive breeding: Black-footed Ferret as an example. *Symposia of the Zoological Society of London* 62, Pp. 241-261.
- Tilson R. 1991. Preserving critical habitat: the Minnesota Zoo's adopt-a-park program. *AAZPA American Association of Zoological Parks and Aquariums annual conference proceedings 1991*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 386-390.
- Tilson R, Syriyanto A. 2001. The conservation adoption of Ujung Kulon National park, Indonesia. In: Conway WG, Hutchins M, Souza M, Kapetanakos Y, Paul E, editors. AZA field conservation research guide. Atlanta, GA.: Zoo Atlanta; p 171-6.
- Tilson R. 1995. In support of nature, the Minnesota Zoo's 'Adopt-a-park' program. In: Wemmer C, editor. The ark evolving: Zoos and aquariums in transition. Washington, D.C.: Smithsonian Institution; p 190-5.
- Tilt W. 1994. Building conservation partnerships - An investment in success. *AAZPA American Association of Zoological Parks and Aquariums annual conference proceedings 1994*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 132-135.
- Tofield S, Coll RK, Vyle B, Bolstad R. 2003. Zoos as a source of free choice learning. *Research in Science & Technology Education* 21(1):67-99.
- Tomas S, Scott D, Crompton J. 2002. An investigation of the relationship between quality of service performance, benefits sought, satisfaction and future intention to visit among visitors to a zoo. *Managing Leisure* 7(4):239-50.
- Tongren S. 1985. To keep them alive. wild animal breeding. New York: Bember Books.
- Trebbau P, Diaz M, Mujica E. 1994. The potential for captive breeding programmes in Venezuela - effort between zoos, government and non-government organisations. In: Olney PJS, Mace GM, Feistner ATC, editors. Creative conservation: Interactive management of wild and captive animals. London: Chapman and Hall; p 486-94.
- Tribe A, Booth R. 2003. Assessing the role of zoos in wildlife conservation. *Human Dimensions of Wildlife* 8:65-74.
- Tudge C. 1992. Last animals at the zoo: How mass extinction can be stopped. Washington, D.C.: Island press.
- Tudge C. 1995. Captive audiences for future conservation. *New Scientist* 145(1962):51-2.
- Van Dam D, Boer de LEM. 1980. Endangered species and breeding consortia. *International Zoo Yearbook* 20:177-9.
- Van Den Bergh WK. 1963. The zoological garden - Noah's ark of the future generations. *International Zoo Yearbook* 4:61-5.
- Veasey JS, Waran NK, Young RJ. 1996. On comparing the behaviour of zoo housed animals with wild conspecifics as a welfare indicator. *Animal Welfare* 5:13-24.
- Vecchio A and Skrei S. 1993. Zoo conservation outreach group, zoos helping zoos save wildlife. *AAZPA American Association of Zoological Parks and Aquariums regional conference proceedings 1993*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 444-449.
- Vehrs K. 1991. The role of zoos in recovery plans: what's in the future? *AAZPA American Association of Zoological Parks and Aquariums annual conference proceedings 1991*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 110-117.
- Wagner F. 1996. The should or should not of captive breeding: whose ethic? In: Norton BG, Hutchins M, Stevens EF, Maple TL, editors. *Ethics on the ark: zoos, animal welfare and wildlife conservation*. Washington, D.C.: Smithsonian Institution Press; p 209-14.
- Walker S, Molur S. 1998. Responsibility of zoos in fulfilling country commitments to the convention on biodiversity in high biodiversity countries as well as rationalising their own collection plans using the CAMP process: India as a case study. *Zoos' Print* 13(3):13-6.
- Walker S, Whitehead M. 1994. Teaching biodiversity conservation in Indian zoos. *International Zoo News* 259:12-6.

- Walker S. 2003. CBSG South Asia activity report September 2002 - December 2003. The World Conservation Union / Conservation Breeding Specialist group.
- Waples KA, Stagoll CS. 2005. Ethical issues in the release of animals from captivity. *Bioscience* 47:115-21.
- Warmolts D, Hutchins M, Bailey P, Loiselle D, Harrelson D, and Panel F, 1997. The alliance for aquatic conservation. *AZA American Zoo and Aquarium Association annual conference proceedings 1997*, Wheeling, WV.: American Zoo and Aquarium Association. Pp. 42-49.
- Waugh DR, Wemmer C. 1994. Training in zoo biology: two approaches to enhance the conservation role of zoos in the tropics. In: Olney PJS, Mace GM, Feistner ATC, editors. *Creative conservation: Interactive management of wild and captive animals*. London: Chapman and Hall; p 207-40.
- Waugh DR. 1988. Training in Zoo biology, captive breeding and conservation. *Zoo Biology* 7:269-80.
- Wayre P. 1969. The role of zoos in breeding threatened species of mammals and birds in captivity. *Biological Conservation* 2(1):47-9.
- Wayre P. 1969. Zoos and endangered species. *British Birds* 62(8):339-40.
- WAZA magazine. 2003 -. World Association of Zoos and Aquariums
- WAZA. 2005. Building a future for wildlife - The World Zoo and Aquarium Conservation Strategy. Bern: World Zoo and Aquarium Association.
- Wehnelt S, Wilkinson R. 2005. Research, conservation and zoos: the EC Zoos Directive - a response to Rees. *Oryx* 39(2):132-3.
- Weigel J. 1992. The conservation role of private zoos in Australia: The Australian reptile park experience. *International Zoo Yearbook* 31:24-9.
- Wells D. 2007. Response to Ross, Lonsdorf and Stoinski: Assessing the welfare implications of visitors in a zoo setting - A comment on Wells (2005). *Applied Animal Behaviour Science* 102(1-2):134-6.
- Wemmer C and Anderton D, 1991. Fauna interest groups: zoo conservation with a regional focus. *AAZPA American Association of Zoological Parks and Aquariums annual conference proceedings 1991*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 395-402.
- Wemmer C and Derrickson S, 1987. Reintroductions: the zoo biologists dream. Prospects and problems of reintroducing captive bred wildlife. *AAZPA American Association of Zoological Parks and Aquariums annual conference proceedings 1987*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 48-65.
- Wemmer C, Derrickson S, Collins L. 1996. The role of conservation and survival centres in wildlife conservation. In: Kleinman DG, Allen ME, Thompson KV, Lumpkin S, editors. *Wild mammals in captivity: principles and techniques*. Chicago, IL.: University of Chicago Press; p 306-14.
- Wemmer C, Rudran R, Dallmeier F, Wilson DE. 1991. Training developing country nationals in the critical ingredient to conserving global biodiversity. *Bioscience* 43:762-7.
- Wemmer C. 1993. The ark evolving: zoos and aquariums in transition. Front Royal, VA.: National Zoological Park, Conservation and Research Centre, Smithsonian Institute.
- Wemmer C. 2001. The weak link of conservation: Training and environmental education. In: Conway WG, Hutchins M, Souza M, Kapetanakos Y, Paul E, editors. *AZA field conservation resource guide*. Atlanta, GA.: Zoo Atlanta; p 228-31.
- Wemmer C. 2002. Opportunities lost: zoos and the marsupial that tried to be a wolf. *Zoo Biology* 21:1-4.
- West C, Dickie LA. 2007. Introduction: is there a conservation role for zoos in a natural world under fire? In: Zimmerman A, Hatchwell M, Dickie L, West C, editors. *Zoos in the 21st Century*. 15 1 ed. Cambridge: Cambridge University Press; p 3.
- West C. 2002. Conservation measures in zoos. *CBSG News* 13(3):4-6.
- Western D. 1986. The role of captive populations in global conservation. In: Benirschke K, editor. *Primates: The road to self-sustaining population*. New York: Springer-Verlag.
- Westley AH, Vredenburg H. 1997. Interorganisational collaboration and the preservation of global biodiversity. *Organisational Science* 8:381-403.
- Wharton D. 2007. Research by zoos. In: Zimmerman A, Hatchwell M, Dickie L, West C, editors. *Zoos in the 21st Century*. 15 1 ed. Cambridge: Cambridge University Press; p 178.
- Wheater RJ, 1985. Zoos of the future. *Symposia of the Zoological Society of London*, Pp. 111-119.
- Wheater RJ. 1987. The role of the zoo in society - recreation, education and conservation. London: The welfare of animals in society. British Veterinary Association.
- Wheater RJ. 1994. Past progress and future challenges. In: Olney PJS, Mace GM, Feistner ATC, editors. *Creative conservation: Interactive management of wild and captive animals*. London: Chapman and Hall.
- Wheater RJ. 1995. World Zoo Conservation Strategy: a blueprint for zoo development. *Biodiversity and Conservation* 4(6):544-52.
- Whitehead M. 1995. Saying it with genes, species and habitats: biodiversity education and the role of zoos. *Biodiversity and Conservation* 4(6):664-70.
- Wickins-Drazilova D. 2006. Zoo animal welfare. *Journal of Agricultural and Environmental Ethics* 19(1):27-36.
- Wieblebnowski N. 1998. Contributions of behavioural studies to captive management and breeding rare and endangered mammals. In: Caro TM, editor. *Behavioural Ecology and Conservation Biology*. Oxford: Oxford University Press; p 130.
- Wiese RJ and Hutchins M, 1993. The role of captive breeding and reintroduction in wildlife conservation. *AAZPA American Association of Zoological Parks and Aquariums regional conference proceedings 1993*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 16-23.
- Wiese RJ, 1993. Introduction: The challenge of conserving freshwater fishes: Partnerships, networking, and cooperation. *AAZPA American Association of Zoological Parks and Aquariums annual conference proceedings 1993*, Wheeling, WV.: American Association of Zoological Parks and Aquariums. Pp. 114.
- Wiese RJ, Hutchins M. 1993. The AAZPA conservation program: There is a method to our madness. *AAZPA Conservation Resource Guide*. Bethesda, MD: American Association of Zoological Parks and Aquariums; p 1-13.
- Wiese RJ, Hutchins M. 1993. The role of captive breeding. *Endangered Wildlife of the World*. Long Island, NY.: Marshall-Cavendish; p 1438-40.
- Wiese RJ, Hutchins M. 1994. *Species Survival Plans: Strategies for wildlife conservation*. Bethesda, MD: American Zoo and Aquarium Association.

- Wiese RJ, Hutchins M. 1994. The role of zoos in the conservation of amphibians and reptiles. In: Murphy JB, Adler K, Collins JT, editors. Captive management and conservation of amphibians and reptiles. Contributions to herpetology, volume 11. Ithaca, New York: Society for the Study of Amphibians and Reptiles; p 37-45.
- Wiese RJ, Willis K, Bowdoin J, Hutchins M. 1993. AAZPA annual report on conservation and science 1992-1993. Bethesda, MD.: America Association of Zoological Parks and Aquariums.
- Wiese RJ, Willis K, Hutchins M. 1994. Is genetic and demographic management conservation? Zoo Biology 13:297-9.
- Wiese RJ, Willis K, Hutchins M. 1996. Conservation breeding in 1995: An update. Trends in Ecology and Evolution 11(5):218-9.
- Wiese RJ, Willis K. 1996. Genetic, demographic, and biological considerations in making Species Survival Plan breeding recommendations. Animal Keepers' Forum 23(2):82-6.
- Wildt D. 1996. Male reproduction, assessment, management, and control of fertility. In: Kleinman DG, Allen ME, Thompson KV, Lumpkin S, editors. Wild mammals in captivity. Chicago, IL.: University of Chicago Press; p 429-50.
- Willis K, Hutchins M, Wiese RJ. 1992. AAZPA conservation resource guide. Bethesda, MD.: American Association of Zoological Parks and Aquariums.
- Wilson A, Stanley-Price MR. 1994. Reintroduction as a reason for captive breeding. In: Olney PJS, Mace GM, Feistner ATC, editors. Creative conservation: Interactive management of wild and captive animals. London: Chapman and Hall; p 243-64.
- Wilson EO. 1984. Biophilia: The human bond with other species. Cambridge: Harvard University Press.
- Wirth R. 2002. Species recovery programmes in the Philippines and Vietnam. *Proceedings of the first EAZA conservation forum*, France: Zoo de Doué.
- Wirth R. 1990. Reintroduction - sometimes a conservation problem? International Zoo News 37:13-7.
- Wood J. 1988. Local landscape conservation: What can zoos do? *AAZPA American Association of Zoological Parks and Aquariums annual conference proceedings 1988*, Wheeling, WV.: American Association of Zoological Parks and Aquariums.
- Woodford MH, Kock RA. 1991. Veterinary considerations in reintroduction and translocation projects. In: Gipps JHW, editor. Beyond captive breeding: re-introducing endangered mammals to the wild. pp. 101-110. Symposia Zoological Society of London 62. Oxford: Clarendon Press; p 27-37.
- Woodroffe G. 1981. Wildlife Conservation and the Modern Zoo. Surrey: Saiga Publishing Company.
- Woodside DP, Kelly JD. 1995. The development of local, national and international zoo-based education programmes. International Zoo Yearbook 34:231-46.
- Woolard S. 1995. Conservation, science, and zoos. Journal of Biological Education 29(3):159-60.
- World Wide Fund for Nature, The World Conservation Union, Botanic Gardens Conservation Strategy. 1989. The botanic gardens conservation strategy. Gland: World Wide Fund for Nature; The World Conservation Union.
- World Zoo Organisation. 1995. Zoo Future 2005. World Zoo Organisation - International Union of Directors of Zoological Gardens.
- Worley D. 1996. Ex situ conservation. In: Spellerberg IF, editor. Conservation biology. Harlow: Longman; p 186-202.
- Zhang Z. 1992. The reintroduction and conservation of endangered animals. Chinese Journal of Zoology 27(6):37-40.
- Zigli B. 1983. The new Noah's arks: zoos. USA Today 11 Jan:1D-E.
- Zimmerman A, Hatchwell M, Dickie L, West C. 2007. Zoos in the 21st Century: Catalysts for Conservation? 1 ed. Cambridge: Cambridge University Press.
- Zimmerman A, Wilkinson R. 2007. The conservation mission in the wild: zoos as conservation NGOs. In: Zimmerman A, Hatchwell M, Dickie L, West C, editors. Zoos in the 21st Century. 15 1 ed. Cambridge: Cambridge University Press; p 303.