MISTREATMENT OF WILD ANIMALS IN CAPTIVITY

Madison Coleman

FOOTNOTES

- 1. "Cetacean," *Merriam-Webster*, accessed February 3, 2021, https://www.merriam-webster.com/dictionary/cetacean.
- Stephanie Dodson Dougherty, "The Marine Mammal Protection Act: Fostering Unjust Captivity Practices Since 1972," *Journal of Land Use & Environmental Law* 28, no. 2 (Spring 2013): 337–367, https://www.jstor.org/stable/42842953.
- 3. Kali S. Grech, "Overview of the Laws Affecting Zoos," *Animal Legal & Historical Center*, Michigan State University College of Law, 2004,
- https://www.animallaw.info/article/overview-laws-affecting-zoos.
- 4. Dougherty, "The Marine Mammal Protection Act."
- World Animal Protection, The Show Can't Go On: End the Suffering of Wild Animals at Cruel Visitor Attractions in Zoos and Aquariums, 2019, 5, https://www.worldanimalprotection.us/sites/default/files/media/us_files/15072019_waza_report-fin al_1.pdfGrech, "Overview of the Laws Affecting Zoos."
- 6. Ibid.
- 7. Dougherty, "The Marine Mammal Protection Act."
- Georgia Mason and Jeffrey Rushen, Stereotypic Animal Behaviour: Fundamentals and Applications to Welfare, 2nd edition, (CABI, 2008), 326–327, https://books.google.com/books?hl=en&Ir=&id=v3LgDwAAQBAJ&oi=fnd&pg=PA325&dq=learned +helplessness+animals+in+captivity&ots=TBzc2IKjk1&sig=I-rs4ALCAE_a9yAuDnVX6ArnRz8#v= onepage&q=learned%20helplessness%20animals%20in%20captivity&f=false.
- 9. "Stereotypic Behaviour in Captive Wild Animals: Zoochosis," *Born Free*, accessed January 30, 2021, https://www.bornfree.org.uk/zoochosis.
- 10. "Animal Husbandry," *Dictionary.com*, accessed February 3, 2021, https://www.dictionary.com/browse/animal-husbandry.
- 11. "Animal Husbandry Program," *Chicago Zoological Society*, accessed January 23, 2021, https://www.czs.org/Centers-of-Excellence/Center-for-Animal-Welfare/Animal-Husbandry.
- 12. "Inbreeding Depression," *Understanding Evolution*, University of California, Berkeley, accessed January 23, 2021, https://evolution.berkeley.edu/evolibrary/article/conservation_03.
- 13. Loraine Rybiski Tarou and Meredith Joy Baskaw, "Maximizing the Effectiveness of Environmental Enrichment: Suggestions from the Experimental Analysis of Behavior," *Applied Animal Behaviour Science* 102, no. 3–4 (February 2007): 189–204, https://doi.org/10.1016/j.applanim.2006.05.026.
- 14. Corrine K. Lutz and Melinda A. Novak, "Environmental Enrichments for Nonhuman Primates," *ILAR Journal* 49, no. 2 (April 1, 2005): 180, https://doi.org/10.1093/ilar.46.2.178.
- 15. "Allostatic Load," *Merriam-Webster*, accessed March 15, 2021, https://www.merriam-webster.com/dictionary/allostatic%20load.
- 16. "Conspecific," *Merriam-Webster*, accessed February 3, 2021, https://www.merriam-webster.com/dictionary/conspecific.
- 17. Jeannette L. Nolen, "Learned Helplessness," *Encyclopedia Britannica*, last updated April 21, 2017, https://www.britannica.com/science/learned-helplessness.
- Lori Marino et al., "The Harmful Effects of Captivity and Chronic Stress on the Well-being of Orcas (Orcinus orca)," Journal of Veterinary Behavior 35 (2020): 77, https://doi.org/10.1016/j.jveb.2019.05.005.
- 19. Ameena Schelling, "Sorry, SeaWorld. Floating Orcas AREN'T Normal," *The Dodo*, August 21, 2015, https://www.thedodo.com/seaworld-lying-floating-orcas-1323649303.html.
- 20. Marc Bekoff, "'Zoothanasia' Is Not Euthanasia: Words Matter," *Psychology Today*, August 9, 2012,

https://www.psychologytoday.com/us/blog/animal-emotions/201208/zoothanasia-is-not-euthanasia-words-matter.

- Christine Kunzl et al., "Is a Wild Mammal Kept and Reared in Captivity Still a Wild Animal?" Hormones and Behavior 24, no. 1 (January 2003): 187–196, https://doi.org/10.1016/S0018-506X(02)00017-X.
- 22. "The Difference Between Domesticated and Wild Animals," *Wildlife Inforner*, accessed January 23, 2021, https://wildlifeinformer.com/difference-between-domesticated-and-wild-animals/.
- 23. Christine Kunzl et al., "Is a Wild Mammal Kept and Reared in Captivity Still a Wild Animal?"
- Lori Marino, "Captivity," in *Critical Terms for Animal Studies*, ed. Lori Gruen (University of Chicago Press, October 24, 2018), 99–109, https://books.google.com/books?id=bV5xDwAAQBAJ&lpg=PA99&dq=dorsal%20fin%20collapse %20captivity&lr&pg=PA99#v=onepage&q&f=true.
- 25. Marino et al., "The Harmful Effects of Captivity and Chronic Stress."
- 26. "Fate of Orcas in Captivity," *Whale & Dolphin Conservation*, accessed February 1, 2021, https://uk.whales.org/our-4-goals/end-captivity/orca-captivity/.
- 27. "Captive Orcas," *Inherently Wild*, accessed February 4, 2021, https://inherentlywild.co.uk/captive-orcas/.
- 28. Dougherty, "The Marine Mammal Protection Act."
- 29. Gabriela Cowperthwaite (director), Blackfish (2013; United States, Magnolia Pictures), film.
- 30. Marino, "Captivity."
- 31. Ibid.
- Oli Gross, "Indiana Zoo Shut Down after Owner 'Beats Leopard Cub to Death with Baseball Bat," Totally Vegan Buzz, February 27, 2020,
 - https://www.totallyveganbuzz.com/news/zoo-shut-down-after-owner-beats-leopard-cub-to-death/.
- "Circuses: Three Rings of Abuse," *PETA*, accessed February 6, 2021, https://www.peta.org/issues/animals-in-entertainment/animals-used-entertainment-factsheets/circ uses-three-rings-abuse/.
- 34. "Elephants in Hanover Zoo Living in Daily Fear' Due to Beatings by Keepers," *The Local*, April 4, 2017,

https://www.thelocal.de/20170404/hanover-zookeepers-reportedly-caught-on-film-abusing-young-elephants.

- 35. Mark Derr, "Zoos are Too Small for Some Species, Biologists Report," October 1, 2003, https://www.nytimes.com/2003/10/01/science/zoos-are-too-small-for-some-species-biologists-rep ort.html.
- Robin W. Baird, "The Killer Whale: Foraging Specializations and Group Hunting," in *Cetacean Societies: Field Studies of Dolphins and Whales*, ed. Janet Mann et al. (Chicago: The University of Chicago Press, 2000),

https://www.cascadiaresearch.org/oldsite/robin/Baird2000CetaceanSocieties.pdf.

- 37. Cowperthwaite, Blackfish.
- 38. Arnold S. Chamove, "Environmental Enrichment: A Review," *Animal Welfare Institute*, accessed January 30, 2021, https://awionline.org/content/environmental-enrichment-review.
- 39. "Limited Space," *Inherently Wild*, accessed January 22, 2021, https://inherentlywild.co.uk/limited-space/
- 40. "Artificial Pods," *Inherently Wild*, accessed January 22, 2021, https://inherentlywild.co.uk/artificial-pods/.
- 41. Cowperthwaite, Blackfish.
- 42. "Mother-Calf Separations," *Inherently Wild*, accessed January 22, 2021, https://inherentlywild.co.uk/mother-calf-separations/
- 43. N. McGrath et al., "Public Attitudes towards Grief in Animals," *Animal Welfare* 22, no. 1 (February 2013): 33–47, https://doi.org/10.7120/09627286.22.1.033.
- 44. World Animal Protection, The Show Can't Go On.
- 45. "Artificial Insemination," *Inherently Wild*, accessed January 22, 2021, https://inherentlywild.co.uk/artificial-insemination/.
- 46. Ibid.
- 47. "Viable Calving Interval," *Inherently Wild*, accessed January 22, 2021, https://inherentlywild.co.uk/viable-calving-interval/.

- 48. "Young Mother Average Age at First Observed Birth (Orcinus Orca)," *Inherently Wild*, accessed January 22, 2021,
 - https://inherentlywild.co.uk/young-mothers-average-age-at-first-observed-birth-orcinus-orca/.
- 49. "Unnatural Diet," *Inherently Wild*, accessed January 22, 2021, https://inherentlywild.co.uk/unnatural-diet/
- 50. World Animal Protection, The Show Can't Go On.
- 51. Lois Bassett and Hannah M. Buchanan-Smith, "Effects of Predictability on the Welfare of Captive Animals," *Applied Animal Behaviour Science* 102, no. 3–4 (February 2007): 231, https://doi.org/10.1016/j.applanim.2006.05.029.
- 52. World Animal Protection, The Show Can't Go On.
- 53. Cowperthwaite, Blackfish.
- 54. World Animal Protection, The Show Can't Go On.
- 55. Johnny Meah (director), *Inside the Tanks (Full Documentary)*, June 15, 2017, video, https://www.youtube.com/watch?v=Hy9gt-f3I6Q.
- 56. Marino, "Captivity."
- 57. World Animal Protection, The Show Can't Go On.
- 58. Marino, "Captivity."
- 59. Ibid.
- 60. World Animal Protection, The Show Can't Go On.
- 61. "SeaWorld to Stop Breeding Orcas Following Controversy," *BBC News*, March 17, 2016, https://www.bbc.com/news/world-us-canada-35829477#:~:text=The%20US%20theme%20park% 20operator,generation%22%2C%20the%20company%20said.
- 62. Leigh Remizowski, "USDA Fines Ringling Bros. Circus over Treatment of Animals," *CNN*, November 30, 2011, https://www.cnn.com/2011/11/29/us/ringling-bros-fine/index.html.
- 63. World Animal Protection, The Show Can't Go On.
- 64. Kali S. Grech, "Overview of the Laws Affecting Zoos," *Animal Legal & Historical Center*, Michigan State University College of Law, 2004, https://www.animallaw.info/article/overview-laws-affecting-zoos.
- 65. World Animal Protection, The Show Can't Go On.
- 66. "Zoo," *National Geographic*, last updated July 22, 2011, https://www.nationalgeographic.org/encyclopedia/zoo/#:~:text=The%20first%20zoo%20in%20the, breeding%20rare%20and%20endangered%20animals.
- 67. Grech, "Overview of the Laws Affecting Zoos."
- 68. "Zoo," National Geographic.
- 69. Dougherty, "The Marine Mammal Protection Act."
- Sharon Guynup, "Captive Tigers in the U.S. Outnumber Those in the Wild. It's a Problem," National Geographic, November 14, 2019, https://www.nationalgeographic.com/animals/2019/11/tigers-in-the-united-states-outnumber-those -in-the-wild-feature/.
- 71. Brian Ogle, "Blackfish' Sparked Positive New Era for Zoos, SeaWorld | Commentary," Orlando Sentinel, October 25, 2019, https://www.orlandosentinel.com/opinion/guest-commentary/os-op-blackfish-zoos-20191025-gqha gqsbq5arpgu7xqs7bkj2ze-story.html.
- 72. Daniel Arkin, "SeaWorld Orlando to Debut New Killer-whale Show at the Start of 2020," *NBC News*, December 14, 2019, https://www.nbcnews.com/news/us-news/seaworld-orlando-debut-new-killer-whale-show-start-20 20-n1106941.
- 73. "SeaWorld to Stop Breeding Orcas Following Controversy," BBC News.
- 74. Meah, Inside the Tanks (Full Documentary).
- 75. "Fate of Orcas in Captivity," *Whale & Dolphin Conservation*, accessed February 1, 2021, https://uk.whales.org/our-4-goals/end-captivity/orca-captivity/.
- 76. World Animal Protection, The Show Can't Go On.
- 77. "SeaWorld Responds to Questions about Captive Orcas, 'Blackfish' Film," *CNN*, October 28, 2013, https://www.cnn.com/2013/10/21/us/seaworld-blackfish-qa/index.html.
- 78. World Animal Protection, The Show Can't Go On.
- 79. Meah, Inside the Tanks (Full Documentary).

- 80. Cowperthwaite, Blackfish.
- 81. Meah, Inside the Tanks (Full Documentary).
- 82. World Animal Protection, The Show Can't Go On.
- 83. "The World's Cruellest Attractions," *World Animal Protection,*" accessed February 6, 2021, https://www.worldanimalprotection.org.au/wildlife-not-entertainers/worlds-cruellest-attractions.
- Govindasamy Agoramoorthy, "Ethics and Welfare in Southeast Asian Zoos," *Journal of Applied Animal Welfare Science* 7, no. 3 (2004): 189–195, https://www.tandfonline.com/action/showCitFormats?doi=10.1207/s15327604jaws0703 5.
- 85. World Animal Protection, The Show Can't Go On.
- 86. Dougherty, "The Marine Mammal Protection Act."
- 87. Grech, "Overview of the Laws Affecting Zoos."
- 88. Dougherty, "The Marine Mammal Protection Act."
- 89. Grech, "Overview of the Laws Affecting Zoos."
- 90. Dougherty, "The Marine Mammal Protection Act."
- 91. Grech, "Overview of the Laws Affecting Zoos."
- 92. Robert Mullan, Bob Mullan, and Garry Marvin, Zoo Culture, (University of Illinois Press: 1999).
- Alan Beardsworth and Alan Bryman, "The Wild Animal in Late Modernity: The Case of Disneyization of Zoos," *Tourist Studies* 1, no. 1 (June 1, 2001): 83–104, https://doi.org/10.1177%2F146879760100100105.
- 94. Mona Zahir, "Public Opinion On Zoos And Aquariums: The Canadian Perspective," *Faunalytics*, July 30, 2018,

https://faunalytics.org/public-opinion-on-zoos-and-aquariums-the-canadian-perspective/.

- 95. "Poll: Do You Agree With Zoos?" *The Journal*, September 25, 2016, https://www.thejournal.ie/zoo-poll-do-you-agree-2995281-Sep2016/.
- 96. Dougherty, "The Marine Mammal Protection Act."
- 97. Marino, "Captivity."
- 98. Dougherty, "The Marine Mammal Protection Act."
- 99. World Animal Protection, The Show Can't Go On.
- 100. Laura Fravel, "Critics Question Zoos' Commitment to Conservation," *National Geographic*, November 13, 2003,

https://www.nationalgeographic.com/animals/article/news-zoo-commitment-conservation-critic.

- 101. "The Case Against Marine Mammals in Captivity," *Animal Welfare Institute*, accessed January 23, 2021, https://www.awionline.org/content/case-against-marine-mammals-captivity.
- 102. Dougherty, "The Marine Mammal Protection Act."
- 103. Ingrid Visser, "Orca Stories | Ingrid Visser | TEDxTutukaka," TEDx Talks, July 17, 2018, video, 7:08, https://www.youtube.com/watch?v=Zs9wgDalC3s.
- 104. "Viable Calving Interval," Inherently Wild.
- 105. Baird, "The Killer Whale: Foraging Specializations and Group Hunting."
- 106. "Zoos & Aquariums Industry in the US Market Research Report," *IBIS World*, last updated November 12, 2020,

https://www.ibisworld.com/united-states/market-research-reports/zoos-aquariums-industry/.

- 107. Meah, Inside the Tanks (Full Documentary).
- 108. Cowperthwaite, *Blackfish*.
- 109. Meah, Inside the Tanks (Full Documentary).
- 110. ichael D. Kreger and Joy A. Mench, "Visitor-Animal Interactions at the Zoo," Anthrozoös 8, no. 3 (1995): 143–158, https://doi.org/10.2752/089279395787156301.
- 111.Ibid.
- 112. Heather Eng, "America's Most-Visited Zoos," *Travel and Leisure*, July 12, 2012, https://www.travelandleisure.com/attractions/zoos-aquariums/americas-most-visited-zoos?slide=2 039070#2039070.
- 113. "Tickets & Membership," *San Diego Zoo*, accessed February 6, 2021, https://zoo.sandiegozoo.org/tickets.
- 114. "Visitor FAQs," *Lincoln Park Zoo*, accessed February 6, 2021, https://www.lpzoo.org/visit/visitor-faq/.
- 115. "Hours & Prices," *Saint Louis Zoo*, accessed February 6, 2021, https://www.stlzoo.org/visit/hours-prices.

- 116. "Admission," *Columbus Zoos and Aquarium*, accessed February 6, 2021, https://columbuszoo.org/home/visit/plan-your-visit/admission.
- 117. "General Information," *Brookfield Zoo*, accessed February 6, 2021,
- https://www.czs.org/Brookfield-ZOO/Plan-Your-Visit/Information.
- 118. "Visit," *Smithsonian's National Zoo & Conservation Biology Institute*, accessed February 6, 2021, https://nationalzoo.si.edu/visit.
- 119. "Visitor Map & Hours," *Como Park Zoo & Conservatory*, accessed February 6, 2021, https://comozooconservatory.org/visitors/visitor-map-hours/.
- 120. "Plan Your Visit," *Bronx Zoo*, accessed February 6, 2021,
- https://bronxzoo.com/plan-your-visit.
- 121. "Visit," Denver Zoo, accessed February 6, 2021, https://denverzoo.org/visit/.
- 122. "Prices and Discounts," Houston Zoo, accessed February 6, 2021,
- https://www.houstonzoo.org/plan-your-visit/prices-and-discounts/.
- 123. "Tickets," SeaWorld, accessed February 6, 2021, https://seaworld.com/orlando/tickets/.
- 124. "Ringling Bros. and Barnum & Bailey Circus Tickets," *TicketsMate*, Excite, accessed February 6, 2021,

https://www.excite.com/events/theater-tickets/Ringling-Bros-And-Barnum-&-Bailey-Circus/index.php.

125. Jeff Wallenfeldt, "Ringling Bros. and Barnum & Bailey Circus," *Encyclopedia Britannica*, last updated October 5, 2018,

https://www.britannica.com/topic/Ringling-Bros-and-Barnum-and-Bailey-Combined-Shows.

- 126. World Animal Protection, *The Show Can't Go On*.
- 127. Cowperthwaite, *Blackfish*.
- 128. "Former Trainer Slams SeaWorld for Cruel Treatment of Orcas," *National Geographic*, March 29, 2015,

https://www.nationalgeographic.com/adventure/article/150329-orca-blackfish-seaworld-dolphins-k iller-whales-ngbooktalk.

- 129. Cowperthwaite, Blackfish.
- 130. "Ultraviolet Radiation," *Inherently Wild*, accessed January 22, 2021, https://inherentlywild.co.uk/ultraviolet-radiation/.
- 131. Dougherty, "The Marine Mammal Protection Act."
- 132. Grech, "Overview of the Laws Affecting Zoos."
- 133. World Animal Protection, *The Show Can't Go On*.
- 134. Grech, "Overview of the Laws Affecting Zoos."
- 135. "About AZA Accreditation," *Association of Zoos & Aquariums*, accessed February 23, 2021, https://www.aza.org/what-is-accreditation/.
- 136. Grech, "Overview of the Laws Affecting Zoos."
- 137. Ibid.
- 138. Cowperthwaite, *Blackfish*.
- 139. Ibid.
- 140. World Animal Protection, *The Show Can't Go On*.
- 141. "For Black Rhino, Zoo Diet Might Be Too Much of a Good Thing," *Ohio State News*, June 22, 2015, https://news.osu.edu/for-black-rhino-zoo-diet-might-be-too-much-of-a-good-thing/.
- 142. Lutz and Novak, "Environmental Enrichments for Nonhuman Primates."
- 143. "All 54 Stingrays at Chicago Zoo Die at Once," CBS News, July 13, 2015,
- https://www.cbsnews.com/news/all-54-stingrays-at-chicago-zoo-die-at-once/.
- 144. Cowperthwaite, *Blackfish*.
- 145. Ibid.
- 146. Ibid.
- 147. Clare Parker Fischer and L. Michael Romero, "Chronic Captivity Stress in Wild Animals is Highly Species-Specific," *Conservation Physiology* 7, no. 1 (2019), 9,
 - https://dx.doi.org/10.1093%2Fconphys%2Fcoz093.
- 148. Marino et al., "The Harmful Effects of Captivity and Chronic Stress."
- 149. Marino et al., "The Harmful Effects of Captivity and Chronic Stress."
- 150. Ibid.

- 151. Lindsay A. Hogan et al., "Behavioural and Physiological Responses of Captive Wombats (*Lasiorhinus latifrons*) to Regular Handling by Humans," *Applied Animal Behaviour Science* 134, no. 3–4 (November 15, 2011): 225, https://doi.org/10.1016/j.applanim.2011.07.010.
- 152. Marino et al., "The Harmful Effects of Captivity and Chronic Stress."
- 153. Ibid.
- 154. Mason and Rushen, Stereotypic Animal Behaviour.
- 155. Meah, Inside the Tanks (Full Documentary).
- 156. Mason and Rushen, *Stereotypic Animal Behaviour*.
- 157. X. Manteca and M. Salas, "Stereotypies As Animal Welfare Indicators," *Zoo Animal Welfare Educational Centre*, accessed January 30, 2021,

https://www.zawec.org/en/fact-sheets/44-stereotypies-as-animal-welfare-indicators.

- 158. "Abnormal Behaviour," *Inherently Wild*, accessed January 22, 2021,
 - https://inherentlywild.co.uk/abnormal-behaviour/.
- 159. G. J. Mason and N. R. Latham, "Can't Stop, Won't Stop: Is Stereotypy a Reliable Animal Welfare Indicator?" *Animal Welfare* 13, (2004): S57,
- https://atrium.lib.uoguelph.ca/xmlui/bitstream/handle/10214/4716/Mason_%26_Latham_2004.pdf. 160. Marino, "Captivity."
- 161. Nora Philbin, "Towards an Understanding of Stereotypic Behaviour in Laboratory Macaques," Animal Welfare Institute, accessed January 30, 2021,
- https://awionline.org/content/towards-understanding-stereotypic-behaviour-laboratory-macaques.
- 162. Mason and Latham, "Can't Stop, Won't Stop."
- 163. Marino, "Captivity."
- 164. Ibid.
- 165. Cowperthwaite, *Blackfish*.
- 166. "Excessive Aggression," Inherently Wild, accessed January 22, 2021,
- https://inherentlywild.co.uk/excessive-aggression/.
- 167. Ibid.
- Ameena Schelling, "Ex-SeaWorld Employee Gives Chilling New Details About Orca Mistreatment," *The Dodo*, December 8, 2015,

https://www.thedodo.com/seaworld-orcas-peel-skin-off-each-other-1498617162.html.

- 169. Meah, Inside the Tanks (Full Documentary).
- 170. "Young Mother Average Age." Inherently Wild.
- 171. Marino et al., "The Harmful Effects of Captivity and Chronic Stress."
- 172. Selene Siqueira da Cunha Nogueira et al., "Determination of the Causes of Indantivide in Capybara (*Hydrochaeris hydrochaeris*) Groups in Captivity," *Applied Animal Behaviour Science* 62, no. 4 (Februrary 26, 1999): 351–357, https://doi.org/10.1016/S0168-1591(98)00231-7.
- 173. Virginia Morell, "Why Do Animals Sometimes Kill Their Babies?" *National Geographic*, March 28, 2014,

https://www.nationalgeographic.com/news/2014/3/140328-sloth-bear-zoo-infanticide-chimps-bono bos-animals/.

- 174. "Viable Calving Interval," *Inherently Wild*.
- 175. Kadie Anderson, Michael M. Garner, and Pam Dennis, "Causes of Mortality in Sloth Bears (*Melursus ursinus*) Housed in U.S. Zoos," *Journal of Zoo and Aquarium Research* 6, no. 1 (January 21, 2018),

https://www.researchgate.net/publication/322835976_Causes_of_mortality_in_sloth_bears_Melur sus_ursinus_housed_in_US_zoos.

- 176. Kimberly A. Thompson et al., "Obstetrical and Postpartum Complication in Lesser Madagascar Hedgehog Tenrecs (*Echinops Telfairi*): Four Cases," *Journal of Zoo and Wildlife Medicine* 48, no. 2 (June 2017), https://doi.org/10.1638/2016-0039.1.
- 177. Kadie Anderson, Michael Garner, and Nancy Stedman, "Retrospective Evaluation of Histopathologic Findings in Captive Gazelle Species," *Journal of Zoo and Wildlife Medicine* 47, no. 1 (2016): 113–119, https://doi.org/10.1638/2015-0086.1.
- 178. Neoli Sunderland et al., "Maternal Parity Affects Neonatal Survival Rate in a Colony of Captive Bred Baboons (*Papio hamadryas*)," *Journal of Medical Primatology* 37, (2008): 223–228, https://doi.org/10.1111/j.1600-0684.2007.00277.x.
- 179. Marino, "Captivity."

180. Ibid.

- 181. "For Black Rhino, Zoo Diet Might Be Too Much of a Good Thing," *Ohio State News*, June 22, 2015, https://news.osu.edu/for-black-rhino-zoo-diet-might-be-too-much-of-a-good-thing/.
- 182. "Ultraviolet Radiation," Inherently Wild, accessed January 22, 2021,
- https://inherentlywild.co.uk/ultraviolet-radiation/.
- 183. World Animal Protection, *The Show Can't Go On*.
- 184. Carmen M. H. Colitz, Micahel T. Walsh, and Stephen D. McCulloch, "Characterization of Anterior Segment Ophthalmologic Lesions Identified in Free-Ranging Dolphins and Those Under Human Care," *Journal of Zoo and Wildlife Medicine* 47, no. 1 (2016): 56–75, https://doi.org/10.1638/2014-0157.1.
- 185. Fischer and Romero, "Chronic Captivity Stress in Wild Animals."
- 186. Ibid.
- 187. Ibid.
- 188. Marino, "Captivity."
- 189. Fischer and Romero, "Chronic Captivity Stress in Wild Animals."
- 190. Ibid.
- 191. F. Alvez et al., "The Incidence of Bent Dorsal Fins in Free-ranging Cetaceans," *Journal of Anatomy* 232, no. 2 (November 12, 2017), https://doi.org/10.1111/joa.12729.
- 192. "Dorsal Fin Collapse," Inherently Wild, accessed January 22, 2021,
- https://inherentlywild.co.uk/dorsal-fin-collapse/.
- 193. Meah, Inside the Tanks (Full Documentary).
- 194. John Jett it al., "Tooth Damage in Captive Orcas (*Orcinus orca*)," *Archives of Oral Biology* 84 (2017): 151–160, https://doi.org/10.1016/j.archoralbio.2017.09.031.
- 195. Marino et al., "The Harmful Effects of Captivity and Chronic Stress."
- 196. "Oral Degradation," *Inherently Wild*, accessed January 22, 2021,
- https://inherentlywild.co.uk/oral-degredation/.
- 197. Marino et al., "The Harmful Effects of Captivity and Chronic Stress."
- 198. "Stereotypic Behaviour in Captive Wild Animals: Zoochosis," *Born Free*.
- 199. "Abnormal Behaviour," Inherently Wild, accessed January 22, 2021,
- https://inherentlywild.co.uk/abnormal-behaviour/.
- 200. Ibid.
- 201. Tim Zimerman, "The Dolphin Trainer Who Loved Dolphins Too Much," *Longreads*, April 2015, https://longreads.com/2015/04/15/the-dolphin-trainer-who-loved-dolphins-too-much/.
- 202. "Deceased Orcas," Inherently Wild, accessed January 22, 2021,
- https://inherentlywild.co.uk/deceased-orcas/.
- 203. "Premature Deaths," Inherently Wild, accessed January 22, 2021,
- https://inherentlywild.co.uk/premature-deaths/.
- 204. "The Case Against Marine Mammals in Captivity," *Animal Welfare Institute*.
- 205. World Animal Protection US, "7 Animal Cruelty Facts and What You Can Do to Change The Statistics," *World Animal Protection*, August 29, 2019,
 - https://www.worldanimalprotection.us/blog/7-animal-cruelty-facts.
- 206. Mark Derr, "Zoos Are Too Small for Some Species, Biologists Report," *The New York Times*, October 1, 2003,

https://www.nytimes.com/2003/10/01/science/zoos-are-too-small-for-some-species-biologists-rep ort.html.

- 207. Marino, "Captivity."
- 208. da Cunha Nogueira et al., "Determination of the Causes of Indantivide in Capybara.
- 209. Morell, "Why Do Animals Sometimes Kill Their Babies?"
- 210. Marino, "Captivity."
- 211. E. H. Boakes, J. Wang, and W. Amos, "An Investigation of Inbreeding Depression and Purging in Captive Pedigreed Populations," *Heredity* 98 (2007): 172–182, https://www.nature.com/articles/6800923.pdf?origin=ppub.
- 212. Katherine Rails and Jonathan Ballou, "Effects of Inbreeding on Infant Mortality in Captive Primates," *International Journal of Primatology* 3, no. 491 (1982), https://doi.org/10.1007/BF02693747.

- 213. Marc Bekoff, "Zoothanasia: The Cruel Practice of Killing Healthy Zoo Animals," Salon, February 3, 2018.
- 214. https://www.salon.com/2018/02/03/zoothanasia-the-cruel-practice-of-killing-healthy-zoo-anim als partner/.
- Marc Bekoff, "Killing Healthy Animals in Zoos: 'Zoothanasia" is a Reality," *Psychology Today*, 215. January 18, 2017,

https://www.psychologytoday.com/us/blog/animal-emotions/201701/killing-healthy-animals-in-zoo s-zoothanasia-is-reality.

- Hannah Barnes, "How Many Healthy Animals Do Zoos Put Down?" BBC News, February 27, 216. 2014, https://www.bbc.com/news/magazine-26356099.
- Elizabeth Claire Alberts, "This Zoo Just Killed A Beloved Elephant for No Good Reason," The 217. Dodo, February 9, 2017,

https://www.thedodo.com/packy-elephant-killed-oregon-zoo-2250817941.html.

Elizabeth Chuck, "Harambe, Gorilla Killed at Cincinnati Zoo, 'Had to Pay the Price': Experts," 218. NBC News, May 31, 2016,

https://www.nbcnews.com/news/us-news/harambe-gorilla-killed-cincinnati-zoo-had-pay-price-exp erts-n583146.

219. Michael Greshko, "Harambe's Death a Stark Reminder of Zoo Accidents," National Geographic, May 30, 2016,

https://www.nationalgeographic.com/news/2016/05/harambe-gorillas-zoos-safety-incidents-anima ls/.

- 220. Dougherty, "The Marine Mammal Protection Act."
- 221. "Orcas vs. Humans," Inherently Wild, accessed January 22, 2021,
- https://inherentlywild.co.uk/orcas-vs-humans/.
- Seattle Times staff, "Boy Survives Bump from Killer Whale," The Seattle Times, August 18, 222. 2005, https://www.seattletimes.com/seattle-news/boy-survives-bump-from-killer-whale/.
- 223. "Orcas vs. Humans," Inherently Wild.
- 224. Cowperthwaite, Blackfish.
- 225 Ibid.

226. "7 Animal Cruelty Facts and What You Can Do to Change The Statistics," World Animal Protection, August 29, 2019, https://www.worldanimalprotection.us/blog/7-animal-cruelty-facts.

- Greshko, "Harambe's Death a Stark Reminder of Zoo Accidents." 227.
- 228. "Exotic Incidents Database," Born Free USA, accessed February 10, 2021,
- https://www.bornfreeusa.org/exotic-incidents-database/.
- Corrine K. Lutz and Melinda A. Novak, "Environmental Enrichments for Nonhuman Primates," 229. ILAR Journal 49, no. 2 (April 1, 2005): 180, https://doi.org/10.1093/ilar.46.2.178.
- Kathy Carlstead, John Seidensticker, and Robert Baldwin, "Environmental Enrichment for Zoo 230. Bears," Zoo Biology 10, no. 1 (1991), https://doi.org/10.1002/zoo.1430100103.
- 231. "The Case Against Marine Mammals in Captivity," Animal Welfare Institute.
- 232. Lutz and Novak, "Environmental Enrichments for Nonhuman Primates."
- 233. Lois Bassett and Hannah M. Buchanan-Smith, "Effects of Predictability on the Welfare of Captive Animals," Applied Animal Behaviour Science 102, no. 3-4 (February 2007): 232-33, https://doi.org/10.1016/j.applanim.2006.05.029.
- Marino, "Captivity." 234.
- "Captive Animal Release," Canisius College Ambassadors for Conservation, accessed 235. February 11, 2021,
 - http://www.conservenature.org/learn about wildlife/reintroduction/captive release.htm.
- 236. "Reintroduction Programs," Association of Zoos & Aquariums, accessed February 11, 2021, https://www.aza.org/reintroduction-programs/.
- 237. Ibid.
- 238. Ibid.
- 239. "The Case Against Marine Mammals in Captivity," Animal Welfare Institute.
- 240. B. B. Beck et al., "Reintroduction of Captive-Born Animals," in *Creative Conservation*, eds. P.J.S. Olney, G. M. Mace, and A.T.C. Feistner, (Dordrecht, Springer), 1994,
 - https://doi.org/10.1007/978-94-011-0721-1 13.

- 241. James Owen, "Most Captive-Born Predators Die If Released," *National Geographic*, January 22, 2008, https://www.nationalgeographic.com/animals/article/predators-captivity-habitat-animals.
- 242. The New York Times, "Freeing Willy | Retro Report," September 16, 2013, video, https://www.youtube.com/watch?v=t7fKTh5uAxE.
- 243. Lori Marino, "What is an Authentic Sanctuary?" *The Whale Sanctuary Project*, February 10, 2021, https://whalesanctuaryproject.org/what-is-an-authentic-sanctuary/.
- 244. Take Part, "How SeaWorld's Orcas Could Go Home Again | CAPTIVE | TakePart," June 16, 2016, https://www.youtube.com/watch?app=desktop&v=5a_Mrt_k7Eg.
- 245. Michael Mountain, "Seaside Sanctuary Concept," *The Whale Sanctuary Project*, April 12, 2018, https://whalesanctuaryproject.org/concept-image-of-seaside-sanctuary/.
- 246. Take Part, "How SeaWorld's Orcas Could Go Home Again."
- 247. Marino, "What is an Authentic Sanctuary?"
- 248. Elan A. Abrell, "Saving Animals: Everyday Practices of Care and Rescue in the US Animal Sanctuary Movement," *CUNY Graduate Center*, 2016, https://academicworks.cuny.edu/gc_etds/1345/.
- 249. Marino, "What is an Authentic Sanctuary?"
- 250. "The Truth About Sanctuaries," *Global Federation of Animal Sanctuaries*, accessed February 11, 2021, https://www.sanctuaryfederation.org/truth-about-sanctuaries/.