

## INDEX

- Abe, Lake, 331  
 Aberdare Mountains, 212  
 Abu Samuel dam, 334  
 Acacia woodlands, 224–5, 335  
 Addis Ababa, 169, 172, 331, 334, 335, 336  
 Afar, 272, 273, 328–42  
   deaths from famine, 336–7  
   economy, 331–2, 336  
   grazing patterns, 332–6  
   indigenous resource management by, 332–4  
   *malokti*, 332–3  
 Afar Liberation Front, 338  
 African Lakes Company, 42, 45  
 agriculture, 15, 29, 33, 35, 67, 83–4, 105, 108–9, 121, 189, 191, 197–8, 200–4, 206, 212, 220, 225, 229–46, 303, 312–13, 327, 331, 342  
   cash crops, 86, 162, 206, 233–5, 239–40, 243, 339; cocoa, 232, 234; coffee, 232; cotton, 206, 233, 234, 338–9; groundnuts, 237, 313; oil palms, 243; rubber, 232; sisal, 203; tobacco, 72–3  
   commercial, 8, 72–3, 126, 312, 336  
   development of, 18, 19, 92, 191, 239, 282, 286–7, 294–6, 310–12, 328  
   expansion of, 18, 82, 212–3, 272, 281, 335–6  
   experimental farms, 30  
   fallows, shortening of, 237, 239, 272  
   flood-retreat cultivation, 174–81  
   food crops, 86, 202, 232–3, 244–5, 315, 333–4, 339; beans, 175; cassava, 230, 237; citrus fruits, 232; coconuts, 232, 235; cowpeas, 175; ginger, 229–30; guinea corn, 317; maize, 175, 233, 300, 313; onions, 317; rice, 190, 214, 226, 232, 233–5, 246, 312–14, 316–17; sorghum, 175, 314; sugar, 312–3; tomatoes, 313; wheat, 313  
   instructors, 202, 205  
   and the Maasai, 137–43, 160–1, 163  
   rotational cropping, 18  
   shifting cultivation, 190, 229, 232–5, 237–9, 243–5  
   subsistence, 203, 327  
   upland cultivators, 231, 233, 235–9, 244–5  
 agropastoralists, 200–1  
 aid agencies, 342  
 Alderson, E. A. H., 52  
 ALDEV (African Land Development Board, Kenya), 143, 153–4, 196–7, 264–5  
 Alexander, J. E., 25  
 Allan, William, 297  
 Amboseli National Park, 92, 95, 108–9, 144–6, 149–65  
 American conservation, influence of, 21–2, 29, 32, 35, 245  
 American dust bowl, 17, 122, 245–6  
 Amhara, 337  
 Amolem, 296  
 Angola, 271  
 antelope, 42, 45, 48, 54, 57, 92, 160, 173  
 anthropologists, 171  
 archaeology, of pastoralism, 130–6, 144–6  
 Archer, Geoffrey, 45  
 arid lands, 84–5, 115, 197, 204, 294  
 Ascension Island, 28  
 Assab, 329, 335  
 Athi plains, 130–1, 144  
 Australia, 5, 33  
 Awash National Park, 171–2, 341  
 Awash Valley, 273, 327–44  
   ecology of, 328–34  
   economy in, 328–34  
   government development programmes in, 330–1  
   population of, 328–9  
   Settlement Authority, 338

- Awash Valley Authority (AVA), 329, 331, 334, 338  
 Awash Valley Development Authority (AVDA), 338–9
- Baden-Powell, Lord, 48, 51–4  
 Baines, Thomas, 43, 45  
 Bakolori irrigation scheme, 273, 310–14, 320–2  
   planning of, 311–12  
   implementation of, 312–14  
 Bakuru, 316  
 Baldwin, W.C., 50  
 Bale Mountains National Park, 95–6, 341  
 Balfour, Edward, 33  
 Ballantyne, R.M., 51  
 Band Aid, 19  
 Bangweulu, 83–4  
 Baringo African District Council, 264–5  
 Baringo District, 107, 120–3, 124–6, 196–7, 251, 260, 262, 264–5, 294  
 Baringo, Lake, 121, 251  
 Baringo Pilot Semi-Arid Area Project (BPSAAP), 122–3, 126  
 Batie, 335  
 Bauchi State, 282  
 Bechuanaland, 34, 49  
   *see also* Botswana  
 Beijer Institute, 211  
 Belgian Congo, 82, 239  
   *see also* Zaire  
 Bemba, 271  
 Bent, J. Theodore, 46  
 biologists, 149  
 biosphere, 90  
 bird protection, 32, 87  
 Blantyre, 69  
 Blixen, Karen, 4  
 Bodi, 174  
 Bolton, Melvin, 173, 184  
 Bonthe District, 239  
 Boran, 300, 304  
 boreholes, 9, 153–4, 158–9, 164–5  
 Bororo Fulbe, 281–2  
 botanic gardens, 24  
 botanists, 18, 23–9, 31, 33, 36, 74  
 Botswana, 81, 87, 94, 194  
   District Land Boards, 194  
   *see also* Bechuanaland  
 Boussingault, C., 26, 33  
 Bouton, Louis, 26  
 Bowring, Sir Charles, 69  
 Boy Scouts, 51–2
- brachystegia woodlands, 64, 66–7, 74  
 Britain  
   conservation attitudes in, 21, 27  
   Overseas Development Administration, 179, 287, 293, 296  
   politics of conservation in, 277  
 British Association, 27, 31, 32  
 British South Africa Company, 44–6, 49, 56  
 Brown, George, 172  
 Brown, John Croumbie, 16, 28–34  
 Brown, Leslie, 171, 173  
 buffalo, 42, 45, 48, 53, 57, 68, 92, 138, 160, 169, 173, 177–8, 181–3  
 Bura irrigation scheme, 211–27  
 Burt, F.D., 74  
 bush clearance, 72, 180, 230, 233–4  
 bush encroachment, 66–7, 72  
 Bushmen, 53–4
- camels, 332  
 Cameroon, 87  
 canoes, 218, 226  
 Cape, The, 8, 16, 18, 21–37, 83  
 Cape Town, 48  
 capitalism, 63, 67, 72–4  
 carnivores, 132  
 carrying capacity, 15, 82–3, 85, 106–7, 112–6, 120, 124–6, 303–4  
 Central Africa, 41–59, 64, 190  
 Chai, 185  
 Champion de Crespigny, Sir Claude, 52, 54  
 charcoal burners, 195, 206, 211, 222, 224, 335  
 chiefs, 43, 57, 68–9, 200, 233–4  
 Chilembwe Rising, 68, 70  
 Chilwa, Lake, 64, 67  
 Chiradzulu District, 69  
 Churchill, Lord Randolph, 46, 49, 56  
 clans, and resource management, 193, 204–6, 332–3  
 Cleghorn, Hugh, 29  
 climatic change, 6, 28–31, 33, 84–5, 86, 105, 115–16, 156, 310, 327  
 Coast Province, Kenya, 296  
 Coillard, François, 44, 46  
 Collins, Colonel, 317–20  
 Colonial Development and Welfare Act, 239  
 colonial government, 2–3, 63, 69–70, 152–3, 191, 197, 201, 229, 246, 273–4, 341  
   agricultural policies, 7–8, 19, 30, 196, 229, 233  
   conservation policies, 3–4, 7–8, 16–18, 35–6, 189, 196–7, 249

- and indirect rule, 282  
 legacy of, 265  
 limited resources of, 253  
 wildlife policies, 129–30  
 Colonial Office, 30, 233  
 combretum-acacia woodland, 74  
 conservation  
   aesthetic arguments for, 80–1, 92, 94–5, 129  
   economic arguments for, 80–1, 93–5, 149, 155, 158–9, 161–5, 183–4, 245–6, 304  
   ideologies, 8, 184–5, 202  
   indigenous methods of, 9, 123, 144–5, 150, 152, 154–8, 189–90, 193–207, 233, 274, 332–4, 340  
   legislation, 8, 18, 25–34, 36, 63, 91–3, 157–9, 201–3, 237, 274, 284–5; forest regulations, 26, 34, 231–3, 253–5, 261–5, 281–3; game regulations, 27, 54, 56–7, 88, 89  
   lobbying, 18, 22–3, 25–6, 31–2, 35, 79, 125–6, 261–2  
   objectives, 90–5, 144–6, 158–65, 189, 218, 243, 246, 264–5, 278  
   programmes, 8–9, 27, 29, 79, 89, 149–50, 152–65, 190–1, 196–7, 207, 239–40, 243–4; failure to implement, 246, 262; in Nigeria, 278–9, 280–1, 285, 289, 311  
     *see also* Game Reserves, National Parks and wildlife  
   conservationists, 8, 27, 85, 92, 94–5, 108, 129, 149–50, 152, 154, 156, 180, 182–4, 191, 277  
 Coryndon, Sir Robert, 45, 55, 258  
   Coryndon Definition, 259–64  
 crocodile, 92  
 crops, *see* agriculture  
 Cumming, R. Gordon, 42, 50
- Daly, Marcus, 54, 56  
 dams, 153–4, 206, 213–6, 310–15, 317, 329, 334–6  
 Darnell, H.B., 25  
 Darwin, Charles, 22, 50, 53–4  
 Dasanetch, 328  
 Dawakawa, 315, 316  
 deforestation, 21–2, 25–6, 28, 33, 36, 73, 212, 218, 225, 229, 232, 299, 301, 327  
 demography, 193, 195–6, 205–6, 272  
   depopulation, 304–5  
   population density, 64, 71, 72–3, 84, 86, 179, 203, 216–18, 258–9  
   population increase, 81–3, 86, 88–9, 122, 191–2, 195–6, 225–6, 232–3, 271, 294, 310, 327, 335  
 desertification, 1, 16, 82, 84–5, 111, 283, 295, 307, 341  
 desiccation, 34–5, 310–2, 314–5, 320  
 development  
   economists, 2, 8  
   feasibility studies for, 286–7, 319, 320  
   planning, 2, 6, 9, 36, 93, 112, 130, 142–3, 157–8, 161, 164–5, 184–5, 226–7, 256, 307–8, 313–14, 321–2, 329, 330, 342; in Kenya, 263; in Nigeria, 278–81, 286–9, 310  
   projects, 124, 191, 212–27, 328  
   rural, 2, 3, 6, 7, 9, 79, 89, 92–3, 129  
   sustainability of, 273, 308–10, 321–2  
   theory, 308  
 dimba floodland, 67  
 disease, 63, 67, 68, 82, 107, 115, 119, 151, 152, 175  
 Djibouti, 329  
 Dorobo, 137, 251, 258  
 Dowa District, 67–8, 71, 73  
 drought, 19, 28–9, 30–1, 35, 57, 83, 85–6, 107, 115, 122–5, 136–7, 154, 159, 161, 169, 178, 185, 198, 260, 271, 279, 283, 293–4, 298, 300, 302–3, 314–15, 320, 327, 329–31, 334–6, 343
- East Africa, 130, 131, 136, 138, 142, 172, 190, 193–207, 216, 229, 245, 252–3  
 East Africa Protectorate, 137, 152  
 East India Company, 27–8, 31, 33  
 ecocodevelopment, 307–8  
 ecological crisis, 1, 2–3, 5, 7–8, 19, 36, 63–4, 68, 79, 81–5, 88–9, 96, 178  
 ecologists, 111, 173, 180, 342  
 ecology, 63, 73, 83, 139, 179, 194, 307, 330, 335  
 economists, 2, 8, 342  
 ecosystems, 74, 86, 87, 156, 216, 218, 227, 251, 307  
 Ecosystems Ltd, 83  
 Edwardes, Harold, 314–15, 317–20  
 education, 105, 200, 272, 279  
 eland, 67, 71, 138  
 Eldama Ravine, 258  
 elephants, 42–6, 48, 53–6, 70–2, 80, 87, 92, 150, 155, 160–1, 163, 177, 179  
   *see also* hunting  
 Elgeyo, 251, 259–60  
 Elgon, Mount, 251  
 Eliot, Sir Charles, 139, 144, 252–3

- Elma Valley, 177
- Embu District, 201–2, 206  
 County Council, 206  
 Exurore Location, 206  
 Mavurie Location, 203  
 Special Rural Development Programme, 206
- Empire Youth Movement, 51
- energy supplies, 211
- engineers, 54, 311–13, 319, 320–2, 342
- environmental awareness, 245–6, 255–6, 289, 308
- environmental degradation, 5, 7, 32, 142, 180–1, 195, 229–46, 255, 340
- environmental management, 2, 7, 189, 277
- environmental pressure groups, 6
- environmentalism, 6–7, 36, 307
- environmentalists, 5, 7, 8
- Equator Sawmills Ltd, 254–6, 261
- Eritrea, 83, 329
- Ethiopia, 85, 106, 171–3, 271, 273, 327–42  
 expansion of state, 327–8  
 famine in, 85, 271, 328–9  
 government under Haile Selassie, 336–7  
 land reforms, 337–8  
 Livestock and Meat Board, 338  
 Provincial Military Administrative Council, 337–8  
 Relief and Rehabilitation Commission, 337–9  
 resettlement programmes, 340–1
- ethnobotany, 203
- European attitudes  
 towards Africa, 4, 89, 130, 137–46  
 towards conservation, 3–6, 21, 35
- European Economic Community, 297
- European settlers, 16–17, 56–7, 229  
 in Kenya, 107, 122, 138–42, 152, 191, 196, 203, 249, 252, 260  
 in Malawi, 72–3  
 in Rhodesia, 41  
 in South Africa, 18, 23, 25, 28–30, 32, 35–6
- Ewaso River, 300, 304
- experts,  
 and conservation, 2, 15–16, 22, 35, 114, 116, 249  
 and development, 2, 307  
 and technology, 64, 189–90, 192, 273
- explorers, 41–2, 46, 50, 130, 183
- famine, 1, 7, 8, 9, 19, 28–9, 57–8, 85–6, 137, 152, 169–70, 176, 178, 271, 293, 304, 317, 327–31, 336–9
- fencing, 92, 160
- feudalism, 337
- Finaughty, William, 43–4
- firearms, 42–3, 47–9, 55, 57, 69–72, 177, 337
- fisheries, 315, 317
- flooding, 22, 29, 107, 174–6, 311, 314–17, 329, 332–6  
 control of, 311–12  
 of Lorian swamp, 300  
 of the Tana floodplain, 212–27  
 urban, 279
- fodder, 201, 301–2
- Food and Agriculture Organisation (FAO), 241–2, 283, 287, 294, 296, 310–13, 321
- food-for-work, 302–3, 338
- foresters, 212, 233, 253
- forestry  
 colonial, 202–3, 229–32, 249–65, 281–3  
 commercial, 191, 202, 232, 249–58, 265, 282–3  
 Indian, 253  
 irrigated, 218–27  
 plantations, 28, 191–2, 204–6, 211, 218–27, 231, 281; exotic planting, 33, 202
- forests, 23–5, 33–4, 190–2, 195, 201, 211–27, 231–4, 24–6, 249–65, 281–3, 315  
 bamboo, 251  
 cultivation in, 251, 259, 261–4  
 clear-felling of, 254–6  
 evergreen, 223–5  
 floodplain, 212–27  
 grazing glades in, 251, 259, 261  
 management, 194, 204, 255, 259, 332  
 Natal Forest Commission, 33–4  
 products, 204, 232, 251, 259  
 protection, 7, 9, 196, 243, 253, 255–6, 258, 261  
 reafforestation, 232–5, 239, 245, 252–5, 261, 315  
 Reserves, 7, 16, 18, 23–4, 27, 29–35, 50, 87–8, 202–3, 231–5, 281
- Fort Johnson (Mangoche), 64, 72
- Fort Manning (Mchinji), 66, 71
- fossil resources, 6, 211
- Fraser, Donald, 46
- Freetown, 233, 239  
 peninsula, 230, 235, 236–7
- fuelwood, 9, 73, 191–2, 201–4, 211–12, 218–27, 299, 301, 335  
 collection of, 220, 224–7

- consumption of, 220–4, 226–7  
Fula, 239–40
- Galla, 331  
Gambella, 91  
game, *see* wildlife  
game guards, 169, 172, 178, 185  
game reserves, 9, 15, 16, 17, 27, 30, 34, 36,  
66–68, 83, 86–8, 106, 123–6, 129, 140,  
143–6, 149–65, 169, 277  
*see also* conservation, National Parks and  
wildlife  
Gandi, 314–6  
Gafarsa scheme, 296, 299, 301–3  
Garissa District, 293  
Garsen, 216  
Gibbon, Alexander, 33  
giraffe, 177  
Gitaaru dam, 206  
*Glossina morsitans*, 74  
Gold Coast, 232  
Gora, 317  
Grant's gazelle, 173  
Grimwood, Major Ian, 171, 173  
Grogan, E.S., 53, 54–5, 56, 252–5, 258–9,  
264  
Grzimek, B., 5  
Gulbin Sokoto, 314–15  
Gunn, Hugh, 41–2  
Gwibi Flats, 49
- Haggard, Ryder, 46  
Harris, Cornwallis, 49–50  
Hartley, Henry, 43, 45  
Harvey Brown, William, 49, 54  
health, 105, 164, 272, 279–81  
Hemingway, Ernest, 4  
herbivores, 85, 105, 107, 118, 119, 150–1  
hippopotamus, 48, 92, 132  
historians, 9, 10, 35  
Hola, 216, 218–20, 221, 224–5  
Hole, Hugh Marshall, 49  
Hooker, Joseph, 31–3  
Hooker, Sir William, 23–4, 31  
human ecology, 106, 174  
Humboldt, G., 26, 33, 36  
hunter gatherers, 121, 150  
hunting  
by Africans, 42–4, 56, 70–1, 121, 150, 152,  
155–6; by pastoralists, 105, 132–8, 144–  
6, 160, 163, 177–8, 202, 204  
by Europeans, 15, 16–17, 22, 27, 34, 41–59,  
87, 140, 152, 154, 157–9; professional  
hunters, 92–3, 95  
exclusion of Africans from, 56–7  
indigenous control of, 43, 48  
for ivory, 27, 41, 43–6, 58, 67, 87, 93, 94,  
115  
juvenile literature about, 51, 54  
licences, 56–7, 70–1, 155, 159  
for meat, 42–3, 46, 49, 57, 107, 132–6  
as sport, 16, 41, 42, 45, 50–3, 56, 177  
trophies, collection of, 54–6; sales of, 42,  
47, 49, 88, 155, 177  
Victorian and Edwardian attitudes  
towards, 54  
*see also* wildlife  
Huxley, Elspeth, 4  
Huxley, Julian, 143–4, 171  
hydroelectric power, 213, 334
- Ibadan, 279  
Il Chamus, 121–3, 197, 200–1, 207, 294, 299  
Illubabor, 341  
Imperial British East Africa Company, 42,  
45  
Imperial Institute of Forestry, Oxford, 190  
India, 18, 21, 22, 23, 25, 27, 28, 29, 32, 34,  
35, 41–2, 51, 232–3, 253  
Indian Ocean, 212  
International agencies, role in Nigerian  
development, 287–9  
International Union for the Conservation of  
Nature and Natural Resources  
(IUCN), 79, 87, 307  
Iresa Boru Township, 299–301, 303  
irrigation, 15, 18, 30, 33, 121, 160–1, 191–2,  
206, 240, 304–5, 310–22, 329, 334–6,  
338–9, 341–2  
canals, 216, 220, 298, 315, 317  
costs of, 297, 304, 320–22  
downstream effects of, 312–14, 334–6  
failure of, 296, 299–305, 312–14, 319  
gravity-fed systems, 297, 315  
large-scale, 212–27, 310–14, 320–2, 332  
pumps, 216, 220, 296  
small-scale, 274, 314–19, 320–2  
technical problems of, 311–13, 319,  
320–2  
Isiolo District, 293, 296, 304  
irrigation cluster, 296  
Ivory Coast, 88

- Jack, R. W., 72  
 Jackson, Frederick, 45, 47, 54, 57–8  
 Jacobs, Petrus, 43  
 Jinka, 169, 172, 174  
 Johnston, Sir Harry, 50, 70, 251–2
- Kaduna State**, 282  
**Kajiado District**, 150, 155, 198–200  
**Kamba**, 58, 142, 204  
**Kambui Forest Reserve**, 231  
**Kambui Hills**, 235, 237  
**Kamburu dam**, 206  
**Kangari Forest Reserve**, 231  
**Kano State**, 282  
**Kasungu District**, 66, 69, 71, 74  
**Kasungu National Park**, 66, 73, 88  
**Katilu**, 296, 298  
**Keffa**, 341  
**Kekarongole**, 296
- Kenya**, 4, 86, 92, 94, 107, 108, 121, 123  
   colonial forestry policies, 249, 253–65  
   Forest Department, 249, 252–59, 261–5  
   Forest Ordinance, 261, 262, 263  
   large-scale irrigation schemes, 211–13, 218, 222, 226–7  
   Legislative Council, 264  
   Ministry of Agriculture, 296  
   Ministry of Energy, 211  
   National Irrigation Board, 221  
   National Parks policies, 129–46, 149–65, 171, 172  
   population of, 81  
   Provincial Agricultural Officers, 296  
   Rangeland Ecological Monitoring Unit (KREMU), 212  
   small-scale irrigation schemes, 293–305  
**Kenya African Union (KAU)**, 263  
**Kenya Arbor Society**, 255  
**Kenya Land Commission (Carter)**, 83, 141–2
- Kenya, Mount**, 152, 201, 202, 203, 212  
**Kerio River**, 294  
**Kew Botanical Gardens**, 23, 31, 32  
**Kiambere dam**, 214  
**Kikuyu**, 141–2, 202  
**Kilimanjaro, Mount**, 150  
**Kilindini harbour, Mombasa**, 252  
**Kindaruma dam**, 206  
**Kjekshus, Helge**, 63–4, 67, 68  
**Knight-Bruce, Bishop**, 46  
**Knysna Forest**, 26–7  
**Koinadugu District**, 237  
   Council, 240
- Koka dams**, 334  
**Kono District**, 235, 237  
**Kora rapids**, 214  
**Kuba kingdom**, 271  
**kudu**, 138  
**Kware**, 319
- labour**, 63, 195, 196, 207, 231, 235, 239, 259–60, 272, 298, 302–3
- land**  
   adjudication, 156, 205–6  
   alienation, 33, 107–8, 139–41, 142, 143, 144–6, 152, 196  
   concessions, to European settlers, 252–3  
   degradation, 38, 82, 83–4, 88, 106–7, 108, 112–14, 121–2, 154, 197, 260–1, 282  
   shortage, 18, 83–4, 195–6, 205–6, 336  
   tenure, 6, 111, 141, 150, 156–7, 163–4, 193–207, 277, 313, 329, 337–8; privatisation of, 15, 143, 145, 195–6, 200  
   use, 24, 112, 120, 123–6, 139–46, 149–50, 180, 212, 249, 277; Decree, Nigeria, 284–5; indigenous patterns of, 193, 203, 332–4; planning, 15, 19, 91–2, 94–6, 154–5, 158, 255–6, 264; surveys, 83–4, 236, 287–8, 320
- Lagos**, 279, 285  
**Laikipia Plateau**, 139, 145, 152, 197, 200  
**Lamborn, Dr W.A.**, 72–3  
**Laws, Robert**, 45  
**Lebanese traders**, 235  
**Lee, Hans**, 49  
**Lembus forest**, 190–1, 249–65  
   African rights in, 258–65  
   commercial forestry in, 249–58; expiry of commercial lease, 262–5  
   economy of, 261–2  
   exclusion of Africans from, 259–61  
   Locational Council, 263  
   population of, 251, 261  
   Torongo glades, 261
- leopards**, 71, 177  
**Leroghi Grazing Scheme**, 196  
**Lewanika**, 43–5  
**Lilongwe**, 64, 66, 71, 73, 74  
**Limpopo River**, 45  
**Lingadzi**, 66  
**lion**, 5, 53, 71, 92, 179, 303
- livestock**  
   cattle, African attitudes towards, 18, 43, 174, 176–8, 181–3, 297–9; culling of, 18, 119, 142, 197, 260–1, 294; destruction

Cambridge University Press

978-0-521-34990-1 - Conservation in Africa: Peoples, Policies and Practice

Edited by David Anderson and Richard Grove

Index

[More information](#)*Index*

351

- of, 48, 63–4; dips, 151, 158; in forests, 251, 259–61  
 diseases, 61–74, 82–3, 85, 152, 332; *see also* rinderpest and tsetse  
 goats, 120–1, 135, 200, 332  
 marketing, 123, 141–3, 152, 156–8, 164, 299  
 numbers, 82–3, 85, 88–9, 112–15, 118–19, 122–5, 141, 144, 155, 198, 200–1, 240, 260–1, 298–9, 301–3  
 sheep, 135, 200, 332  
*see also* pastoralism and pastoralists  
 Livingstone, David, 42  
 Lobengula, 43, 48, 49  
 Lodwar, 296  
 Loita Plains, 143  
 Loitokitok, 198  
 Loma Forest Reserve, 231  
 London, 233  
 London Missionary Society, 28, 44  
 Lorian swamp, 300  
 Lower Omo Valley, 169–85  
 Lower Shire Valley, 71  
 Lower Thames Valley, 180  
 Lozi, 43, 44  
 Luangwa Valley, 64, 66, 91, 96  
 Lugard, Frederick, 45, 137–8, 310, 315, 317  
 Lyell, Denis, 50, 54, 55  
  
 Maasai, 107–8, 121, 129–46, 149–65, 197–200, 207  
   Ilkisongo section, 150  
 Maasai Mara National Park, 92, 107, 146, 154, 162  
 Maasailand, 107, 129–146  
 Macina, 272  
 Magbosi District, 242  
 Mago National Park, 169–85  
 Mago River, 169, 172, 173  
 Mago, Mount, 174  
 Maher, Colin, 202  
 Malawi, 17, 34, 45, 63–74, 81, 83, 86–8, 90–5  
 Malaysia, 92, 233  
 Malekote, 216, 221, 225  
 Malindi, 212  
 Malka Dakaa, 296–8  
 Mandala, Elias, 67, 73–4  
 Mandera, 296  
 mangrove poles, 221  
 Moa–Sewa Watershed Hills, 237  
 Marigat, 201  
 marine pollution, 6  
 markets, 107, 203, 206, 207, 232, 336, 338  
  
 Marsh, G.P., 22, 32  
 marshes, 50, 67  
 Masinga dam, 206, 213  
 Mashonaland, 44, 49, 51, 52, 55  
 Matabeleland, 44, 51  
 Mauch, Karl, 43, 44, 45  
 Mau escarpment, 131, 139, 198, 251  
 Mau Mau, 263  
 Mauritius, 22, 26, 33  
 Mbalambala, 296  
 Mbeere District, 201–7  
 Mbirikani, 199  
 medicine, 5, 201, 202, 206  
 Menelek, 271  
 Mengistu Haile Mariam, 338  
 Merti, 296, 297  
 Meruishi, 198  
 mining, 42, 202  
   for diamonds, 235  
   for gold, 34, 45, 47  
   prospectors, 41, 42, 46, 50  
 missionaries, 41, 42, 44–6, 50  
 Moffat, Robert, 42  
 Moir, F.L.M., 45  
 Mombera's District, 66  
 Moyamba District, 229, 239  
 Mozambique, 63, 85, 86, 88  
 mphala dryland, 67  
 Mui, 173, 176–7, 185  
 Mui River, 172, 176  
 Muir, John, 29  
 Mulanje, 64  
 Mursi, 106, 108, 169–85  
 Mzilikazi, 43  
 Mzimba District, 64, 68, 70  
  
 Nairobi, 152, 156, 213  
 Nairobi National Park, 153, 162  
 Naivasha, Lake, 139  
 Nakuru, Lake, 139  
 Nandi, 251  
 Nanighi, 216, 220, 225  
 Narok District, 142–3, 198  
 Natal, 32–4  
   Forest Commission, 33–4  
 National Christian Council of Kenya, 300  
 National Parks, 7, 9, 66, 80, 83, 86–88, 106, 108–9, 116, 123–6, 129, 140, 149–65, 169–85, 277, 341  
 Native Reserves, 203, 259–60, 263  
 Natu, Lake, 316–7, 319  
 natural history, 25, 42, 46, 54–6  
 museums of, 54–5

- naturalists, 50, 52, 150, 154  
 natural woodlands, 211–12  
 nature, 182–3, 338  
 Ndebele, 43, 47, 48  
 newspapers, 23, 24, 27  
 Newton, Alfred, 32  
 New Zealand, 33  
 Ngonde, 64  
 Ngong, 198  
 Ngoni, 64, 66, 67–8, 70, 82, 190  
 Ngorongoro Conservation Area, 107, 123–6  
 Niger Delta, 279, 284  
 Nigeria, 86, 232, 273, 277–89, 307–22  
   economic problems, 288–9  
   conservation legislation, 283–5, 289  
   Federal Forestry Department, 282  
   federal government, 280  
   forestry policies, 281–3  
   land reform in, 277, 284–6  
   military government, 279  
   population of, 81  
   River Basin and Rural Development Authorities, 282, 286–7  
 Nimini Forest Reserve, 231  
 Njala Agricultural College, Sierra Leone, 237  
 Njemps Flats, 121–2, 125  
 NORAD, 297  
 North America, 5, 21, 87  
 North-eastern Province, Kenya, 296  
 Northern Frontier District, Kenya, 197  
 North Nyasa District, 71  
 Northern Rhodesia, 45, 47, 64  
 Nsefu Game Reserve, 92  
 nuclear power, 6  
 Nuer, 181–2  
 Nyasa, Lake, 45, 64, 68, 71, 190  
  
 Omo National Park, 169–85, 341  
 Omo River, 169, 174–5  
 Orange Free State, 48  
 Orma, 299  
 oryx, 173  
   scimitar horned, 87  
 overgrazing, 84–5, 106–7, 111–26, 142, 154, 156, 193, 299, 303–4, 336  
 overstocking, 16, 84, 106–7, 111, 116, 120, 142, 241, 260–1, 293–4, 303–4  
 Owen, D.G., 310  
  
 Panguma District, 233  
  
 Pappe, Dr Ludwig, 23–8, 30–1, 33  
 pastoralism, 64, 105–9, 111–26, 129–46, 149–65, 176–7, 179, 193, 196–201, 272, 293–305, 331–6  
   grazing patterns, 17, 18, 105, 108, 113–4, 116–20, 126, 149–51, 154–8, 176–7, 179, 194, 196–200, 243, 260–1, 299, 300–3, 331–6, 341  
   group ranches, 123, 143, 156–8, 160–5, 199, 201  
   indigenous grazing controls, 190, 196–201, 262, 294, 303–4, 332–4  
   pasture improvement, 17, 123, 126, 260–1, 294, 339  
   restocking programmes, 239–40, 338  
   and state policies, 191, 197–8, 293–305, 328, 340–2  
   and wildlife, 105–9, 123–6, 129–46, 149–65, 178–80  
 pastoralists  
   relations with cultivators, 331–2, 335–6  
   sedenterisation of, 138–40, 143, 145, 153–4, 164, 297–8, 341  
   grass burning by, 29, 113, 231–3, 235, 237–8, 243  
   subsistence of, 116–26, 135–7  
 peasants, 18, 34, 35, 36, 327, 339, 341  
 Perkerra River, 251, 256, 294  
 Phalombe Plains, 64  
 Phillips, George, 43, 44  
 Pilansberg National Park, 91  
 Pillai, A.C., 234  
 poachers, 16, 27, 88, 93, 94, 155, 159–60  
 Pokomo, 216, 221, 225  
 police, 200, 203, 313  
 politics, of conservation, 6–7, 9, 79–81, 91–2, 180–1, 191–2, 229, 341–2  
   in Britain, 277–8  
   in Cape Colony, 18, 22, 27, 29–31, 34–7  
   in Lembus, 249–65  
   in Maasailand, 109, 142, 149, 155–8, 160–5  
   in Mbeere, 205  
   in Nigeria, 277–89  
 pollution, 279  
 poverty, 2, 195, 200, 206, 293, 301  
   pauperisation of pastoralists, 274, 293, 297–9, 304–5  
 Prentice, Dr George, 66, 71  
 primates, 92, 216, 225, 227  
 property rights, 16, 25, 92, 143, 145, 193  
   common property, 194, 196, 201, 204  
 Pungwe Flats, Mozambique, 47, 48



- Rabah, 315, 316, 317  
 railway construction, 32, 47  
 rainfall  
   in Awash Valley, 331  
   decline of, 26, 84–5, 314–5  
   and deforestation, 18, 27  
   erosive effects of, 235  
   in Malawi, 64  
   in Omo–Mago Valley, 169, 175–6  
   on Tana River, 216  
 Rawson, R. W., 26  
 rebellion, 337  
 reedbuck, 71  
 resettlement, 7, 9, 174, 178–81, 243, 328, 338–41  
 resource management, 194, 195, 197, 201, 202, 207  
 revolt, 338  
 rhinoceros, 48, 53, 55, 87, 92, 132, 144, 155, 160–61, 163, 177  
 Rhodesia, 34  
 Rift Valley, East African, 120, 130–1, 136, 197, 251  
 rinderpest, 48, 56, 57, 63, 71, 83, 85, 89, 107, 137  
 Roosevelt, Theodore, 50, 53, 54, 55  
 Rothschild Collection, 55  
 Royal National Parks of Kenya, 154  
 Ruanda, 86
- sacred groves, 204–6  
 Sahel, 84–5, 115, 246, 279, 283, 289, 307, 327  
 St Helena, 28  
 Samburu, 196  
 Sanderson, Dr Meredith, 66  
 Sapo National Park, 95  
 savanna, 9, 112, 119, 139, 201, 237, 281, 283  
   woodlands, 206, 282  
 sawmillers, 253, 254, 259, 283  
 Scarcies Estuary, 234  
 scientists, 10, 15, 22, 30, 35, 183  
 Scotland, Douglas, 233–4  
 Selous, Frederick, 43, 44, 46, 48, 49, 50, 55, 56  
 semi-arid lands, 28, 84–5, 115, 119, 120–3, 150, 197, 203, 212, 216, 294, 340  
 Sepopa, 43  
 Serengeti Plains, 123–4, 143  
 settlement patterns, 82, 85  
   in the Awash Valley, 332–4, 338–41  
   at Bura, 214, 220–2  
   in the Lower Omo Valley, 169, 174–6, 178–81  
   in Malawi, 67–9  
   and reserved grazing areas, 199–200  
   settlement schemes, 214, 222, 293–305, 312–14  
 Shaka, 272  
 Sharpe, Alfred, 45, 48, 50, 54  
 Shifta, 298, 300  
 Shona, 47, 52  
 Shimmin, Isaac, 46  
 Shire Valley, 45, 64, 67  
 Sierra Leone, 190, 191, 229–246  
   Cattle Owners Settlement Scheme (COSS), 239–41  
   chiefdoms, Dembelia, 240; Mongo, 240; Nongowa, 237; Safroko Limba, 233; Sulima, 240  
   development plans, 239, 240, 243, 246  
   Diamond Corporation, 241  
   Forest Ordinance, 231  
   government of, 229, 240; Agriculture Department, 232–5, 237–8, 245–6; Forestry Department, 231–4, 239, 245–6; Lands and Forests Department, 234; Ministry of Agriculture and Forestry, 241, 243  
   Guinea border region of, 235, 237, 239–40  
   Produce Marketing Board, 241  
   Protectorate of, 229, 232  
   Protectorate Mining Benefits Fund (PMBF), 235, 239  
   Rice Corporation, 241  
 Simen National Park, 95, 171–2  
 Simpson, A. B., 262–3  
 sleeping sickness, 63–4, 66, 68  
 smallpox, 279  
 social Darwinism, 50–1, 53–4  
 social scientists, 2, 9, 10, 15, 111, 342  
 soil, 86, 222, 311  
   conservation, 1, 2, 7, 9, 17–18, 27, 34; in Ethiopia, 339–42; in Kenya, 120–1, 123, 196, 202, 205, 261; in Sierra Leone, 229–46  
   erosion, 16–18, 23, 29, 30, 33, 82, 84, 88, 191; in Kenya, 120–1, 124–5, 142, 202–4, 255–6; in Sierra Leone, 229–30, 235–7, 240–1; in Nigeria, 281–2, 310–12  
   fertility, 15, 83–4, 237  
 Sokoto State, 282, 310–22  
 Sokoto Valley, 310–22  
   colonial water conservation projects in, 314–19  
   Bakolori project, 310–14, 320–2  
   Solomon, Saul, 28–9, 31

- Somalia, 126, 298  
 Sotik expedition (1905), 52  
 South Africa, 88, 91, 92, 94, 340  
     Drought Commission (1922), 30  
 southern Africa, 16, 21, 30–2, 35, 41, 49, 55, 191, 194, 229  
 Southern Province, Malawi, 69  
 Southern Rhodesia, 48, 72  
 South Nyasa District, 68, 71  
 species  
     classification, 54–6  
     extinctions, 27, 86–7, 136  
     protection, 27, 34, 86–8, 89, 140, 172, 216  
 squatters, 195  
 Sri Lanka, 222  
 State  
     the colonial, *see* colonial government  
     the Ethiopian, 237–30, 336–41  
     the modern, 105, 271, 273–4, 327, 340–2  
     the Nigerian, 277–92  
     the pre-colonial, 189–90, 271–74  
 Stebbing, E.P., 35, 310  
 Stigand, C.H., 52, 55  
 Sudan, 83, 88, 107  
 Sukumaland, 119  
 swamp cultivation, 232–5, 239, 242–3  
 swamp grazing, 122–3, 125, 145, 150, 154–5, 160, 175, 198, 200, 300–1  
  
 Table Mountain, 24–5  
 Talata Mafara dam, 310  
 Tama, *see* Mursi  
 Tamenon, J.M. ole, 264  
 Tana River, 191–2, 201, 206, 211–27  
     Primate Reserve, 216, 226  
 Tanzania, 64, 86, 87, 107, 123–4, 140, 340  
 Tapkin Angamba, 317  
 Tapkin Dambuchi, 317  
 Tapkin Kuberi, 314–15  
 Tapkin Natu, 316, 317–8  
 Tapkin Sheyi, 317  
 taungya system, 239  
 Temme, 234  
 tenants, 204, 216, 224, 226  
 Thomas, Sir Shenton, 69  
 Thomas, Thomas Morgan, 44, 46  
 Thomson, Joseph, 137, 138  
 timber, 25, 249, 332, 335  
     traders, 30, 255  
     for railways, 32  
     removal from farms, 47  
     production, 211–12, 257–8  
     industry, 249–58  
     contractors, 258  
     royalties in Lembus, 252–6  
     tourism, 17, 92, 94–5, 108–9, 129–30, 143, 144–6, 155–8, 161–2, 171–4, 183–4, 277  
     town and country planning, 279–81  
     traders, 43–6, 201, 206, 271–2, 334  
 Transvaal, 48  
 trespass, 200  
 trypanosomiasis, 64, 66–7, 71–2  
 Tsamiya, 316–7  
 tsetse, 17, 44, 57, 63–74, 119, 126, 140, 174, 177, 300  
 Tsitsikamme Forest, 27  
 Tugen, 196, 251, 259–65  
 Tugen Hills, 121, 125  
 Turkana District, 293–4, 296–7, 304  
     irrigation cluster, 296  
 Turkwel River, 294, 299  
 Turner's Peninsula, Sierra Leone, 234  
  
 Uasin Gishu Maasai, 251  
 Uasin Gishu Plateau, 145, 197  
 Uganda, 83, 86, 137, 152, 272  
 underdevelopment, 63  
 UNESCO, 143, 171  
 United Nations Development Project (UNDP), 283, 287, 296  
 United Nations Special Fund, 311  
 urban development, 83, 279–80, 340, 341  
     shanty towns, 274  
  
 Vail, Leroy, 63–4, 67, 68, 74  
 van der Post, Laurens, 5–6  
 Varian, H.F., 47, 48, 54, 56  
 vegetation types, 74, 83–5, 112, 114, 116–19, 122–3, 125, 222–5, 333  
 Victorian and Edwardian attitudes, 16, 21, 54  
 Viljoen, Jan, 43  
 villagisation, 340–2  
 Vwaza Marsh, 64, 73, 91, 93  
  
 Walia Ibex, 172  
 war, 9, 47–8, 50–2, 63, 293  
     in Ethiopia, 328, 337, 339  
     First World, 70, 254  
     Nigerian civil, 283  
     Second World, 2, 6, 19, 153, 235, 237, 245–6, 257, 262, 327, 328, 339  
     *Shifita*, 298, 300  
     Sudanese civil, 107  
 Warri, 279  
 warthog, 72

Cambridge University Press

978-0-521-34990-1 - Conservation in Africa: Peoples, Policies and Practice

Edited by David Anderson and Richard Grove

Index

[More information](#)*Index*

355

- water  
 conservation, 2, 7, 27, 28, 31, 120, 123, 195, 204, 229, 232, 314–20, 322  
 pollution, 33  
 supply, 150–1, 153–5, 157–9, 162–5, 240, 279–81, 310, 338
- West Africa, 35, 191, 229, 238, 272, 286  
 environmental disasters affecting, 280–1, 287  
 governments in, 277, 279, 289
- West Africa Commission (1948), 239
- Westbeech, George, 43, 44
- wildebeest, 150, 159
- wilderness, 4, 5–6, 17, 154, 172, 174, 179, 184, 204
- wildlife, 1, 9, 16–17, 63, 71, 106–8, 129–30, 132–6, 169, 342  
 commercial ranching of, 15, 91  
 culling of, 57, 92  
 destruction of, 16, 41–9, 72–4  
 legislation, 56–7, 71, *see also* conservation  
 management of, 2, 90–6, 116, 173–4  
 protection of, 1–2, 5–6, 7, 9, 32, 69–72, 86–8, 108–9, 111, 123–6, 152–65, 169–81, 277  
 threat to, 1, 105, 125–6, 137–8, 140–1, 143–6, 149–50, 180–1, 226  
*see also* conservation, Game Reserves and hunting
- wild pig, 72, 92
- Wilkinson, Governor, 234
- Wollega, 341
- Wollo, 336
- women, 222, 224, 226
- World Bank, 79, 112, 115, 157–8, 218, 220, 278, 287
- World Conservation Strategy, 3, 79, 81, 90, 92, 307–8
- Yao, 68–9, 70
- Yartsokua, 314
- Zaire, 86, 271
- Zambezi River, 43, 44, 95
- Zambia, 63, 83–4, 87, 271
- Zaria, 313
- zebra, 5, 45, 71, 150, 159, 173, 179
- Zimbabwe, 46, 91, 93, 94, 96, 271
- Zomba, 64, 69
- Zulu, 33, 272