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GLOSSARY

‘a’a flows—These volcanic lava flows result in discontinuous lava surfaces; the hallmark of an ‘a’a lava flow is the very rough surface it produces when it cools and solidifies.

Action Alternative—An alternative that proposes a different management action or actions to address the purpose, need, and objectives of the plan; one that proposes changes to the current management. Alternatives B and C are the action alternatives in this planning process. See also: “No-Action Alternative.”

Affected Environment—A description of the existing environment that may be affected by the proposed action (40 CFR 1502.15).

Ahupua‘a—Traditional Hawaiian land division usually extending from the uplands to the sea.

Authorized Agents—For the purposes of this plan, authorized agents could include NPS personnel, other federal, state, or local agency personnel, and skilled professionals. Authorized agents would be certified in firearms training, and specially trained in wildlife management with firearms. Skilled professionals would include nonprofit groups, fully insured business entities, or others engaged in wildlife management activities that include direct reduction with firearms. Skilled professionals would possess all necessary permits.

Alpine—A high elevation region above tree line characterized by dry, cool climate and sparse to almost non-existent vegetation (Wagner et al. 1999). Frosts are frequent at night. In the park, this environment typically occurs above 8,500 feet elevation.

Avian—Pertaining to or characteristic of birds.

Cervid—A member of the deer family, such as white-tailed deer, mule deer, elk, moose, and caribou.

Closure—An area delineated by posts with string between them, prohibiting vehicle and/or pedestrian access (except in alternative A, where sometimes string is not used between posts).

Coastal Lowland—The coastal lowland environment includes the coastal strand along the immediate shoreline and the coastal plain makai of the large fault scarps or pali, usually located one to several miles away from the shoreline, and woodland communities on the face of the pali. The coastal lowland environment is typically warm and dry. Rainfall varies from about 60 inches per year in the eastern park boundary to less than 20 inches in the west. Summer drought conditions characterize the area (NPS 2005e).

Code—A grouping centered on a common subject. The codes were developed during the scoping process and were used to track major subjects.

Comment—A comment is a portion of the text within a correspondence that addresses a single subject. It could include such information as an expression of support or opposition to the use of a potential management tool, additional data regarding the existing condition, or an opinion debating the adequacy of an analysis.

Concern—Concerns are statements that summarize the issues identified by each code. Each code was further characterized by concern statements to provide a better focus on the content of comments. Some codes required multiple concern statements, while others did not.

Contractor—For the purposes of this plan, a contractor would be a fully insured business entity, nonprofit group, or other entity engaged in wildlife management activities that include the direct reduction with firearms.

Correspondence—A correspondence is the entire document received from a commenter. It can be in the form of a letter, email, written comment form, note card, open house transcript, or petition.

Council on Environmental Quality (CEQ)—Established by Congress within the Executive Office of the President with passage of the *National Environmental Policy Act of 1969*. CEQ coordinates federal environmental efforts and works closely with agencies and other White House offices in the development of environmental policies and initiatives.

Criteria Pollutants—The 1970 amendments to the *Clean Air Act* requiring the U.S. Environmental Protection Agency to set National Ambient Air Quality Standards for certain pollutants known to be hazardous to human health. Environmental Protection Agency has identified and set standards to protect human health and welfare for six pollutants: ozone, carbon monoxide, total suspended particulates, sulfur dioxide, lead, and nitrogen oxide. The term, “criteria pollutants” derives from the requirement that Environmental Protection Agency must describe the characteristics and potential health and welfare effects of these pollutants. It is on the basis of these criteria that standards are set or revised.

Cultural Landscape—A geographic area (including both cultural and natural resources and the wildlife or domestic animals therein) associated with a historic event, activity, or person or exhibiting other cultural or aesthetic values.

Cultural Resources—Prehistoric and historic districts, sites, buildings, objects, or any other physical evidence of human activity considered important to a culture, subculture, or community for scientific, traditional, religious, or other reason.

Decibels—A unit of relative sound loudness, electric voltage, or current equal to ten times the common logarithm of the ratio of two readings.

Depredation—Damage or loss the act of preying upon.

Direct Reduction—Lethal removal of non-native ungulates; includes both sharpshooting and capture/euthanasia.

Ecosystem—An ecological system; the interaction of living organisms and the nonliving environment producing an exchange of materials and energy between the living and nonliving.

Endangered Species—“...any species (including subspecies or qualifying distinct population segment) that is in danger of extinction throughout all or a significant portion of its range (ESA Section 3(6)).” The lead federal agency, U.S. Fish and Wildlife Service, for the listing of a species as endangered is responsible for reviewing the status of the species on a five-year basis.

Endangered Species Act (ESA) (16 USC 1531 et seq.)—An Act to provide a means whereby the ecosystems upon which endangered species and threatened species depend may be conserved and to provide a program for the conservation of such endangered species and threatened species.

Endemic—Native to or confined to a particular region.

Environment—The sum total of all biological, chemical, and physical factors to which organisms are exposed; the surroundings of a plant or animal.

Environmental Assessment (EA)—A concise public document, prepared in compliance with NEPA, that briefly discusses the purposes and need for an action, and provides sufficient evidence and analysis of impacts to determine whether to prepare an environmental impact statement or finding of no significant impact (40 CFR 1508.9).

Environmental Consequences—Environmental effects of project alternatives, including the proposed action, any adverse environmental effects which cannot be avoided, the relationship between short-term uses of the human environment, and any irreversible or irretrievable commitments of resources which would be involved if the proposal should be implemented (40 CFR 1502.16).

Estuarine—Formed, deposited, growing in, inhabiting, or found in the widening channel of a river where it nears the sea or in an area of fresh water and salt (tidal) water mixing.

Ethnographic Resource—Any site, structure, object, landscape, or natural resource feature assigned traditional legendary, religious, subsistence, or other significance in the cultural system of a group traditionally associated with it.

Executive Order—Official proclamation issued by the President that may set forth policy or direction or establish specific duties in connection with the execution of federal laws and programs.

Exposure—Exposure occurs whenever and wherever a person is subjected to electric, magnetic or electromagnetic fields other than those originating from physiological processes in the body and other natural phenomena.

Extirpated Species—A species that is no longer present in an area where it once lived.

Fauna—Animals, especially the animals of a particular region or period, considered as a group.

Fertility Control—A method or methods used to limit the numbers of animals in a population by decreasing the reproductive success of the animals, such as contraception or sterilization.

Finding of No Significant Impact (FONSI)—A document prepared by a federal agency showing why a proposed action would not have a significant impact on the environment and thus would not require preparation of an Environmental Impact Statement. A FONSI is based on the results of an Environmental Assessment.

Floodplain—The flat or nearly flat land along a river or stream or in a tidal area that is covered by water during a flood.

Flora—Plants considered as a group, especially the plants of a particular country, region, or time.

Habitat—The environment in which a plant or animal lives (includes vegetation, soil, water, and other factors).

Herbivore—An animal that eats a diet consisting primarily of plant material.

Historic District—An area that generally includes within its boundaries a significant concentration of properties linked by architectural style, historical development, or a past event.

Invasive Species—Non-native species disrupting and replacing native species.

Irreversible—A term that describes the loss of future options. Applies primarily to the effects of use of nonrenewable resources, such as minerals or cultural resources, or to those factors, such as soil productivity that are renewable only over long periods of time.

Makai—Oceanside, towards the sea.

Mauka—Inland, upland, towards the mountain.

Migratory—The act of moving from one spatial unit to another.

Monitoring—A process of collecting information to evaluate if an objective and/or anticipated or assumed results of a management plan are being realized (effectiveness monitoring) or if implementation is proceeding as planned (implementation monitoring).

Montane—Most of the montane seasonal fire environment in the park lies on the lower slopes of Mauna Loa Strip mauka of mid-elevation seasonal woodland at 4,000 foot elevation and makai of the subalpine fire environment zone at 6,700 foot elevation. In Kahuku, the area between 5,000 and 6,000 feet in elevation on the southwest facing slope between Manukā and Kipahoe Natural Area Reserves can also be characterized as montane seasonal (NPS 2005e).

National Environmental Policy Act (NEPA)—The Act as amended articulates the federal law that mandates protecting the quality of the human environment. It requires federal agencies to systematically assess the environmental impacts of their proposed activities, programs, and projects including the “no-action” alternative of not pursuing the proposed action. NEPA requires agencies to consider alternative ways of accomplishing their missions in ways which are less damaging to the environment.

National Historic Preservation Act of 1966 (16 USC 470 et seq.)—An Act to establish a program for the preservation of historic properties throughout the nation, and for other purposes, approved October 15, 1966 [Public Law 89-665; 80 STAT. 915; 16 USC. 470 as amended by Public Law 91-243, Public Law 93-54, Public Law 94-422, Public Law 94-458, Public Law 96-199, Public Law 96-244, Public Law 96-515, Public Law 98-483, Public Law 99-514, Public Law 100-127, and Public Law 102-575].

National Register of Historic Places (National Register)—A register of districts, sites, buildings, structures, and objects important in American history, architecture, archaeology, and culture, maintained by the Secretary of the Interior under authority of Section 2(b) of the *Historic Sites Act of 1935* and Section 101(a)(1) of the *National Historic Preservation Act of 1966*, as amended.

No-Action Alternative—The alternative in which baseline conditions and trends are projected into the future without any substantive changes in management (40 CFR 1502.14(d)). Alternative A is the no-action alternative in this planning process.

Non-native Species—Any introduced plant, animal or protist species that is not native to the area and may be considered a nuisance; also called exotic or alien species.

Organic Act—Enacted in 1916, this act commits the National Park Service to making informed decisions that perpetuate the conservation and protection of park resources unimpaired for the benefit and enjoyment of future generations.

Pahoehoe flows—These volcanic lavas flows result in continuous surfaces. Pahoehoe lavas are thin and they flow smoothly in tongues or lobes and are characterized by a glassy, plastic skin. When the pahoehoe lava flow cools, it often solidifies to a smooth surface.

Pali—Cliffs or ridges.

Population (or Species Population)—A group of individual plants or animals that have common characteristics and interbreed among themselves and not with other similar groups.

Population Reduction—Removing animals randomly within a population in an attempt to reduce animal density, and thus decrease CWD transmission rates.

Qualified volunteers—For the purposes of this plan, qualified volunteers would include individuals identified through an NPS-developed application and selection process. Before assisting with removal actions with firearms, these individuals would need to meet a number of requirements including

- filling out a registration form;
- obtaining a Hunter Education Certificate or card;
- presenting registration of the firearm to be used and a Hawai'i hunting license;
- providing their own transportation; and
- being able to spend a minimum of eight hours hiking over rough terrain.

Reproductive Control—A method or methods used to limit the numbers of animals in a population by decreasing the reproductive success of the animals, such as contraception or sterilization.

Scoping—An early and open process for determining the extent and variety of issues to be addressed and for identifying the significant issues related to a proposed action (40 CFR 1501.7).

Subalpine—This zone extends from 6,500 to 8,500 feet (1,981 to 2,591 meters) (and higher). The average annual temperature ranges from 40°F to 50°F, with occasional winter frost. Low-lying clouds cause fog-drip from trees and shrubs, which contributes to precipitation.

Successional—“Successional” refers to the process of ecosystem development as brought about by changes in the populations of species that results in the creation of a geographic region with particular characteristics. Early successional refers to species that tend to more quickly give way to other species (weeds, nonnative varieties, etc.), typically representing lower quality habitat. Late-successional refers to more persistent species, and tend to be associated with higher value habitat.

Ungulate—A hoofed, typically herbivorous, animal; includes horses, cows, deer, elk, and bison.

Wetlands—The U.S. Army Corps of Engineers (Federal Register, 1982) and the Environmental Protection Agency (Federal Register, 1980) jointly define wetlands as: Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

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