

ARTICLES

FISH AND WILDLIFE MANAGEMENT ON FEDERAL LANDS: DEBUNKING STATE SUPREMACY

BY

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This Article reviews the authority of federal and state governments to manage wildlife on federal lands. It first describes the most common assertions made by state governments regarding state powers over wildlife and then analyzes the relevant powers and limitations of the United States Constitution and federal land laws, regulations, and policies. Wildlife-specific provisions applicable within the National Park System, National Wildlife Refuge System, National Forest System, Bureau of Land Management, the special case of Alaska, and the National Wilderness Preservation System are covered, as is the Endangered Species Act. We reviewed an extensive collection of cases of conflict between federal and state agencies in wildlife management on federal lands. These cases show how federal land laws, regulations,

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and policies are frequently applied by federal agencies in an inconsistent and sometimes even unlawful fashion. They also demonstrate how commonalities found in state wildlife governance, such as sources of funding and adherence to the North American Model of Wildlife Conservation, often exacerbate conflict over wildlife management on federal lands.

Federal land management agencies have an obligation, and not just the discretion, to manage and conserve fish and wildlife on federal lands. We debunk the myth that “the states manage wildlife and federal land agencies only manage wildlife habitat.” The myth is not only wrong from a legal standpoint, but it leads to fragmented approaches to wildlife conservation, unproductive battles over agency turf, and an abdication of federal responsibility over wildlife. Another problem exposed is how the states assert wildlife ownership to challenge the constitutional powers, federal land laws, and supremacy of the United States. While the states do have a responsibility to manage wildlife as a sovereign trust for the benefit of their citizens, most states have not addressed the conservation obligations inherent in trust management; rather, states wish to use the notion of sovereign ownership as a one-way ratchet—a source of unilateral power but not of public responsibility. Furthermore, the states’ trust responsibilities for wildlife are subordinate to the federal government’s statutory and trust obligations over federal lands and their integral resources.

The Article finishes by reviewing the ample opportunities that already exist in federal land laws for constructive intergovernmental cooperation in wildlife management. Unfortunately, many of these processes are not used to their full potential, and states sometimes use them solely as a means of challenging federal authority rather than a means of solving common problems. Intergovernmental cooperation must be a mutual and reciprocal process, meaning that state agencies need to constructively participate in existing federal processes, and federal agencies should be provided meaningful opportunities to participate in, and influence, state decision making affecting federal lands and wildlife.

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I. INTRODUCTION

Some of the most significant cases in the development of federal lands and resources law revolve around questions pertaining to federalism and wildlife management. At stake are weighty issues related to constitutional law, sovereignty, and ownership. Complicating matters is the enduring tension between federal and state governments that is built into American politics, the opaque language sometimes found in federal lands law, and the interjurisdictional nature of wildlife conservation. And, of course, there is the politics of it all, as these cases force federal and state agencies to consider their sources of power and authority, their organizational values and biases, and other deeply polarizing and confrontational issues.

To begin, consider some of the following questions that were decided long ago by the courts: Does the United States Forest Service (USFS) have the authority to kill over-browsing deer deemed to be causing harm to the Kaibab National Forest and to do so in violation of state game laws? Similarly, does the National Park Service (NPS) have the authority to kill deer within Carlsbad Caverns National Park for research purposes without obtaining a state permit? Does Congress have the power to protect wild horses and burros on federal lands when those species compete with ranchers and their cattle for forage? And can the United States Fish and Wildlife Service (FWS) refuse to permit the State of Wyoming to vaccinate elk on the National Elk Refuge?

The courts answered these questions, all in the affirmative,¹ but standoffs between federal and state governments have nonetheless intensified in recent years. We examined several of these conflicts to help guide our research so that we could address the key arguments made by state and federal governments, and focus our analysis on the most relevant provisions related to wildlife as found in federal law, regulation, and policy. Included in our review were cases receiving national attention, such as the recent decision by NPS and FWS to preempt those hunting regulations of the State of Alaska that are in conflict with National Park and Refuge laws. These are rare cases where federal agencies pushed back against state interests. In other high profile cases, federal agencies acquiesced to the states, such as Grand Teton National Park's refusal to apply federal regulations to private inholdings within the boundaries of the Park, thus effectively ceding wildlife management authority to the State of Wyoming on roughly 2,300 acres of land within the Park. Other problematic cases include the management of wolves in federally designated wilderness areas, such as the decision made by USFS to permit the State of Idaho to land helicopters in the Frank Church River of No Return Wilderness in order to track and collar wolves, and to not take action to regulate the State of Idaho's plan to hire a professional trapper to kill two packs of wolves living within the Wilderness for the purpose of increasing the area's elk population. We also investigated cases receiving far less national attention, such as an annual predator killing contest on federal lands in Idaho managed by USFS and the Bureau of Land Management (BLM), and the State of Utah's introduction of non-native mountain goats to establish a population on national forest lands.

In cases like these, the states frequently claim that federal land agencies have limited authority over wildlife management, especially on multiple-use lands managed by USFS and BLM. In making this argument, states commonly assert that they own wildlife and manage it as a trust resource. As they see it, their power and authority over wildlife on federal lands reign supreme, and as the argument goes, neither federal land laws nor the courts have done much to change this historical arrangement. The states often justify their positions and actions by reference to the "North American Model of Wildlife Conservation" (the Model), which is a set of principles to guide state management of wildlife.

In comparison to the states, the federal government responds in a more varied and often inconsistent fashion. Rare is the situation where a federal agency challenges state interests, such as the case with NPS and FWS in Alaska. More common is a federal agency sending mixed messages about its authority over wildlife on federal lands, sometimes flexing its muscle, sometimes acquiescing to the states, and sometimes doing everything it can to watch from the sideline. This inconsistency may be why questions about wildlife management on federal lands have resurfaced with such force in recent years.

¹ See *infra* notes 136–153, 382 and accompanying text.

This Article sets the record straight by providing a comprehensive examination of the authority of federal agencies to manage wildlife on federal lands, with the goal of providing a more common understanding amongst federal and state agencies. To help ground the research and make it usable to decision makers and federal land and wildlife managers, the research team consists of three academics (Zellmer, Joly, and Nie) and three consultants (all retired federal employees) having decades of experience working for the United States Department of Agriculture's Office of the General Counsel (Pitt), USFS (Haber, a former planning specialist for the agency), and BLM (Barns, a former wilderness specialist at the Arthur Carhart National Wilderness Training Center).

The Article comes in three parts. Part II begins by providing the context of state wildlife governance. It highlights the core claims and arguments most often made by the states and their representative institutions in conflicts like those described above. It reviews the common assertion that states own wildlife and manage it as a trust resource. From there, the Part reviews common themes in state wildlife laws, decision-making processes, and sources of funding. The North American Model of Wildlife Conservation is then described insofar as it relates to federal lands and conflict over wildlife management. The Model was invoked frequently in the cases we examined, and we explain its relevance in Part II and what we view as its shortcomings in Part IV. Part II closes by summarizing some of the most common complaints and recommendations made by the states, through the Association of Fish and Wildlife Agencies (AFWA), regarding the management of wildlife on federal lands. We do so because of the role played by AFWA in negotiating agreements with federal land agencies.

Part III begins by providing the legal context of wildlife management on federal lands. The constitutional setting comes first, with a review of the United States Constitution's Property Clause, Treaty Clause, Commerce Clause, and the Tenth Amendment. The first Subpart closes by reviewing the doctrine of federal preemption and the use of savings clauses in federal land law. It shows that while states have well-established historical authority over wildlife within their borders, this authority is neither exclusive nor necessarily dominant. As found repeatedly by the courts, the Constitution grants the federal government the authority to manage its lands and resources, fulfill its treaty obligations, and control interstate commerce, even when the states object.

Part III then reviews the federal land laws, regulations, and policies of most significance to the management of wildlife on federal lands. Provisions governing the management of endangered and threatened species, the National Park System, National Wildlife Refuge System, National Forest System, public lands administered by BLM, the special case of Alaska, and the National Wilderness Preservation System are covered in this Subpart. Extra attention is provided to the latter because of the disproportionate amount of conflict and controversy generated by wildlife management in federally designated wilderness. The Subpart shows that federal land agencies have considerable powers and statutory duties to manage wildlife

on federal lands, even if they have chosen not to exercise those powers consistently in the past. Also reviewed in each are agency-specific savings clauses and provisions related to intergovernmental cooperation. Though each statute differs in important ways, all provide the states with meaningful and privileged opportunities to participate in decisions regarding the management of wildlife on federal lands. The savings clauses demonstrate Congress's desire to acknowledge some level of state responsibility over wildlife management, but in no way should these clauses be interpreted to diminish the federal government's vast constitutional and statutory authority to manage its own lands and resources, even when objected to by a state.

Our conclusions, analysis, and recommendations come in Part IV. We begin by explaining that federal land management agencies have an *obligation*, and not just the discretion, to manage and conserve fish and wildlife on federal lands, contrary to the myth that "the states manage wildlife, federal land agencies only manage wildlife habitat." We found this mantra repeated throughout our study, and it was commonly made by state *and* federal agencies in multiple cases and contexts. We explain the origins of this myth and explain why it is wrong from a legal standpoint and limited from a biological one. The myth must be debunked, not only because it is legally deficient, but also because federal lands are significant reservoirs of biodiversity and will become even more significant in the future due to the rapid pace of development on nonfederal lands.

We next address the common claim that states own wildlife and that such ownership necessarily limits the authority of federal land agencies to manage and make decisions concerning wildlife. We conclude that the states' assertion that they own wildlife—full stop—is incomplete, misleading, and needlessly deepens divisions between federal and state governments. It is especially problematic when states assert ownership as a basis to challenge or undermine federal authority over wildlife on federal lands. The states are on solid footing when declaring a "sovereign ownership" of wildlife that must be managed as a public trust resource. But, invoking the public trust as a source of authority is simply not credible without its mirror-image, which is the conservation responsibility for trust resources.

We also explain in Part IV why it is important for the federal government to respond to state assertions of trust ownership by emphasizing that it too has statutory and trust obligations over federal lands, which often encompass the conservation of wildlife. This Subpart concludes by discussing how the all too often adversarial relationship between federal and state governments might be addressed in the future by embracing a more cooperative form of "co-trusteeship" between federal, state, and tribal governments. In moving forward, we also recommend a reexamination of how wildlife is managed and funded at the state level, such as finding a more secure and predictable source of funding for nongame management. We also suggest that advocates of the Model consider the significant role played by federal lands in the conservation of wildlife.

Addressed next are two issues of a more technical nature, both of which figured prominently in the cases reviewed for this research. The first is the United States Department of the Interior's policy statement on federal-state relations in wildlife policy. Some of the provisions found in the policy sow confusion amongst federal and state agencies. Most problematic is how the policy proclaims that states have "primary authority" for management of fish and wildlife on federal lands. We take issue with this misinterpretation of the law, the process used to write it, and explain how it can lead to unnecessary confusion and conflict between federal and state governments.

We then discuss the issue of what happens when federal agencies refuse to take action to protect wildlife on federal lands. This scenario played out in several of the cases reviewed as part of this project, with the distinction being between when the agency has a duty to act and when the agency has the authority to act but the action is discretionary. When a federal agency has a duty to act under a statute, regulation, or other legal requirement, the failure to do so through permit issuance or otherwise warrants an injunction of the non-permitted and non-federal activity.

The issue of wildlife management in the National Wilderness Preservation System is also addressed again in Part IV. We review the Wilderness Act² and its unambiguous affirmative obligation to preserve wilderness character, which includes fish and wildlife species within wilderness areas, and discuss problematic trends where federal agencies have skirted legal obligations in order to accommodate more political demands, often from state interests advancing a view of management that is antithetical to the Wilderness Act.

Part IV concludes by discussing the importance of intergovernmental cooperation in the management of wildlife on federal lands. Multiple opportunities for cooperation already exist in federal decision-making and planning processes, but they are not used to their full potential. We found that states too often view such opportunities not as a way to meaningfully inform federal decision making, but as a political platform to challenge federal authority. As we see it, intergovernmental cooperation is a two-way street, and while federal agencies must provide opportunities for state participation in federal planning processes, the states should reciprocate by providing opportunities for federal entities to participate meaningfully in state wildlife management decision making and, in appropriate cases, to influence the resolution of issues related to wildlife conservation.

To make the research accessible to those who need it most, the Article is accompanied by a set of frequently asked questions that will be available online.³ This resource enables users to find succinct answers to their questions with linkages to the most relevant parts of the Article for additional information.

² 16 U.S.C. §§ 1131–1136 (2012).

³ *Federal Lands & Wildlife*, U. MONT., <http://www.cfc.umt.edu/bolle/federal-lands-wildlife> (last visited Nov. 11, 2017) (FAQs currently under construction).

II. STATE MANAGEMENT CONTEXT AND STATE PERSPECTIVES ON MANAGING WILDLIFE ON FEDERAL LANDS

This Part provides some initial background on state wildlife law and governance. Common state perspectives on wildlife ownership, the wildlife trust, state wildlife commissions, funding, and the North American Model of Wildlife Conservation are reviewed insofar as they pertain to intergovernmental conflict. These issues emerged frequently in several of the disputes we examined. The Part reviews some of the most common claims and arguments made by state wildlife agencies and their representative institutions. Of course, there is no singular state wildlife agency perspective, and readers should appreciate the diversity found amongst the states. To simplify, we emphasize the views and position of AFWA. AFWA represents North America's state fish and wildlife agencies and is a principle actor in the debate over wildlife management on federal lands.⁴ Particular emphasis is placed on AFWA because of its role in negotiating agreements with federal land agencies. We take issue with some of the positions and arguments, as explained below in this Part, and we return to some of the more substantive issues in subsequent Parts of the Article.

A. State Ownership and the Wildlife Trust

Forty-eight states claim sovereign ownership of wildlife.⁵ Sovereign ownership differs from proprietary ownership in that it is constrained by the public interest with the requirement that wildlife be managed for the greater good and the benefit of the public.⁶ Most often referenced by the states in this context is *Geer v. Connecticut*,⁷ in which the Supreme Court of the United States recognized the common state ownership of wildlife and that this power is to be exercised "as a trust for the benefit of the people, and not as a prerogative for the advantage of the government, as distinct from the people, or for the benefit or private individuals as distinguished from the public good."⁸ As we discuss in Part III.A, the Supreme Court subsequently overruled *Geer* in *Hughes v. Oklahoma*, but did so in the context of federal laws preempting state laws (based on claims of state ownership).⁹ States, in

⁴ See *About: Overview*, ASS'N FISH & WILDLIFE AGENCIES, <https://perma.cc/A2ZW-GQSP> (last visited Nov. 11, 2017).

⁵ Michael C. Blumm & Aurora Paulsen, *The Public Trust in Wildlife*, 6 UTAH L. REV. 1437, 1462, 1488–1504 (2013).

⁶ *Id.* at 1466–67.

⁷ 161 U.S. 519 (1896), *overruled by* *Hughes v. Oklahoma*, 441 U.S. 322 (1979).

⁸ *Id.* at 529. AFWA considers *Geer* as "provid[ing] the single strongest statement of state public trust ownership of fish and wildlife in the Court's jurisprudence." Brief for Ass'n of Fish & Wildlife Agencies as Amici Curiae in Support of Petitioners at 11, *Wisconsin v. Lac Courte Oreilles Band of Lake Superior Chippewa Indians of Wis.*, 135 S. Ct. 1842 (2015) (No. 14-792), 2015 WL 527525, at *11. *Geer* traces the idea to *Martin v. Waddell's Lessee*, 41 U.S. (16 Pet.) 367 (1842). *Geer*, 161 U.S. at 529.

⁹ *Hughes*, 441 U.S. 325–26. The erosion of *Geer* began with *Missouri v. Holland*, 252 U.S. 416 (1920). There, the Court upheld the constitutionality of the Migratory Bird Treaty Act and

other words, cannot discriminate against interstate commerce based on claims of state ownership of wildlife.¹⁰ The general rule adopted in *Hughes* “makes ample allowance for preserving, in ways not inconsistent with the Commerce Clause, the legitimate state concerns for conservation and protection of wild animals underlying the 19th-century legal fiction of state ownership.”¹¹

Assertions of sovereign ownership provide the basis for states claiming a “public trust” in wildlife. In their analysis, Blumm and Paulsen find that “courts and legislatures in at least twenty-two states have expressly employed the words ‘trust’ or ‘trustee’ when discussing state management of wildlife” and that “courts and legislatures of at least twenty-two other states use trust-like language . . . in proclaiming state ownership of wildlife.”¹² The public trust in wildlife is most often invoked by states when declaring broad power and authority to regulate fish and wildlife resources.¹³ Less clear is what affirmative conservation duties go along with this trust responsibility. In other words, what must states do, and not do, in order to meet the responsibilities of the wildlife trust?¹⁴ There is relatively little case law on this matter, and states have generally done little to fill in the details.¹⁵ As is the case with the public trust doctrine more broadly, there are many unanswered questions about the exact parameters and possible applications of a “wildlife trust,” if the term is to be taken literally.¹⁶ But for purposes

rejected state claims of “exclusive authority” to manage wildlife under the state ownership doctrine. *Id.* at 434. As eloquently stated by the Court: “the state may regulate the killing and sale of such birds, but it does not follow that its authority is exclusive of paramount powers. To put the claim of the State upon title is to lean upon a slender reed.” *Id.*; see *infra* notes 187–190 and accompanying text.

¹⁰ *Hughes*, 441 U.S. at 335.

¹¹ *Id.* at 335–36.

¹² Blumm & Paulsen, *supra* note 5, at 1471, 1473. “Of the fifty states, only Nevada and Utah have yet to make some acknowledgement of the public trust in wildlife.” *Id.* at 1477. Similarly, AFWA emphasizes that “[s]tates, as public trustees, hold wildlife in trust for their citizens.” Brief for Ass’n of Fish & Wildlife Agencies as Amici Curiae in Support of Petitioners, *supra* note 8, at 10.

¹³ Blumm & Paulsen, *supra* note 5, at 1466, 1471–73.

¹⁴ See generally Susan Morath Horner, *Embryo, Not Fossil: Breathing Life Into the Public Trust in Wildlife*, 35 LAND & WATER L. REV. 23, 24 (2000) (“[P]racticitioners have not been left with any clear authority either as to the resources to which the doctrine should apply, or its necessary features.”); Gary D. Meyers, *Variation on a Theme: Expanding the Public Trust Doctrine to Include Protection of Wildlife*, 19 ENVTL. L. 723, 733 (1989) (“Professor Stone’s proposal focuses on the practical aspects of such a change, namely that natural objects would be recognized at law, could institute—through a guardian—legal action to prevent or redress harm to the natural objects, and receive direct injunctive or monetary relief.”); Patrick Redmond, *The Public Trust in Wildlife: Two Steps Forward, Two Steps Back*, 49 NAT. RESOURCES J. 249, 253 (2009) (“This distinction between proscriptive authority and affirmative duties has evoked numerous subtle philosophical and ethical discussions of the difference between a purely regulatory relationship between the state and its natural resources and a more trust-oriented relationship based on a stewardship ethic or ‘duty-based environmentalism.’”).

¹⁵ See Blumm & Paulsen, *supra* note 5, at 1471; Richard M. Frank, *The Public Trust Doctrine: Assessing Its Recent Past and Charting Its Future*, 45 U.C. DAVIS L. REV. 665, 678 (2012); see also discussion *infra* Part IV.B.1.

¹⁶ Horner, *supra* note 14, at 25.

here, it is enough to note how the open-ended nature and ambiguity of the wildlife trust doctrine is used by the states to assert jurisdictional powers and control over wildlife. We return to the important issues of wildlife ownership and trust management in Part IV.A.2.

B. State Wildlife Laws, Decision Making, and Funding

State wildlife agencies implement their wildlife trust duties through an array of state wildlife laws and regulations. Some of the most common categories found in state codes pertain to protected species, hunting, fishing and trapping, animal damage control, habitat protection, tribal provisions, law enforcement, and hunter-harassment interference.¹⁷ Twenty-one states also have “right to hunt” constitutional provisions.¹⁸ These vary in terms of substance and effect.¹⁹

Some simply recognize a hunting heritage in a state²⁰ and the opportunity to harvest wild fish and game subject to state law and regulation,²¹ while others create more explicit rights that are nonetheless subject to state management.²² All but one of these amendments (Vermont’s) passed since the mid-1990s, and collectively, they reflect some fear that state hunting traditions are under threat.²³ As we discuss below, they also signify the importance of hunting to state wildlife management.

While state fish and wildlife agencies are structured in numerous ways, a commonality that most share is that the director or head of the agency is responsible to some sort of politically appointed fish and wildlife commission, board, or advisory council.²⁴ The powers granted to state wildlife commissions vary, from setting fish and game seasons and bag limits

¹⁷ See RUTH S. MUSGRAVE & MARY ANNE STEIN, *CTR. FOR WILDLIFE LAW, STATE WILDLIFE LAWS HANDBOOK* 14, 18 (1993); see also *Animal Legal and Historical Center Web Site*, MICH. ST. U., <https://perma.cc/4EUV-D9VX> (last visited Nov. 11, 2017) (providing searchable database of hunter harassment and interference laws).

¹⁸ See *State Constitutional Right to Hunt and Fish*, NAT’L CONF. ST. LEGISLATURES (Apr. 20, 2017), <https://perma.cc/W53P-J3QQ>.

¹⁹ See generally Stacey L. Gordon, *A Solution in Search of a Problem: The Difficulty with State Constitutional “Right to Hunt” Amendments*, 35 *PUB. LAND & RESOURCES L. REV.* 3 (2014) (discussing the different state constitutions that guarantee a right to hunt.).

²⁰ See, e.g., MONT. CONST. art. IX, § 7 (“The opportunity to harvest wild fish and wild game animals is a heritage that shall forever be preserved to the individual citizens of the state and does not create a right to trespass on private property or diminution of other private rights.”).

²¹ See, e.g., WYO. CONST. art. I, § 39 (“The opportunity to fish, hunt and trap wildlife is a heritage that shall forever be preserved to the individual citizens of the state, subject to regulation as prescribed by law, and does not create a right to trespass on private property, diminish other private rights or alter the duty of the state to manage wildlife.”).

²² See, e.g., VA. CONST. art. XI, § 4 (“The people have a right to hunt, fish, and harvest game, subject to such regulations and restrictions as the General Assembly may prescribe by general law”).

²³ *State Constitutional Right to Hunt and Fish*, *supra* note 18.

²⁴ See Martin Nie, *State Wildlife Policy and Management: The Scope and Bias of Political Conflict*, 64 *PUB. ADMIN. REV.* 221, 222 (2004).

to charting broader management goals and objectives for the states.²⁵ Members are typically appointed by the governor and subject to state legislative approval.²⁶ Most states also have requirements for commission membership, such as a general knowledge of wildlife issues, political and geographic balance, or requiring that they hold a sporting license.²⁷ The commission framework stems from sport hunters and conservationists wanting to secure their hard-fought protections for fish and game; thus, commissions were created so that sport hunters had a voice in preventing a return of widespread market hunting.²⁸ More recently, however, state wildlife commissions have been criticized, mostly because some interests believe that their memberships do not adequately represent the diverse values and interests of those people who do not hunt, fish, or trap.²⁹

Funding for state wildlife management generally comes from the sale of hunting, fishing, and trapping licenses at the state level and from federal funds generated through targeted excise taxes.³⁰ The result is that hunting, fishing, and trapping-derived revenue “comprise between 60 and 90 percent of the typical state fish and wildlife agency budget.”³¹ This arrangement is often referred to as a “user-pay, user-benefit” funding model because states apply most of these funds to the management of sport fish and game species.³² This funding mechanism serves to reinforce the complaint of non-hunters that their values and interests are not adequately considered in management decisions.³³ As we discuss below, this funding model helps us better understand the position of states in some intergovernmental disputes, as decisions made by federal land agencies can have implications for state wildlife agency budgets that are so dependent on fish and game-generated revenue.³⁴

Another initial observation is that the “user-pay, user-benefit” moniker is more complicated than generally stated. A case can be made, for example, that taxpayers, including the non-hunting and non-fishing public, do indeed pay for wildlife *conservation* through the acquisition and management of wildlife *habitat*, both public and private.³⁵ This takes the form of funding for federal lands, state lands, and contributions to private land conservation.³⁶

²⁵ See, e.g., ERIN SEILER, OR. LEGISLATIVE COMM. SERVS., EXECUTIVE APPOINTMENTS LEGISLATIVE REVIEW (2016), <https://perma.cc/FKC9-VUJJ>.

²⁶ See, e.g., *id.*

²⁷ See, e.g., *id.*

²⁸ See JOHN F. REIGER, AMERICAN SPORTSMEN AND THE ORIGINS OF CONSERVATION 80 (3d ed. 2001).

²⁹ Nie, *supra* note 24, at 223.

³⁰ *Id.*

³¹ J.F. ORGAN ET AL., THE NORTH AMERICAN MODEL OF WILDLIFE CONSERVATION: TECHNICAL REVIEW 12-04, at 9 (Theodore A. Bookhout ed., 2012), <https://perma.cc/68VB-FJ7F>.

³² See *id.*

³³ See Nie, *supra* note 24, at 223–24.

³⁴ See ORGAN ET AL., *supra* note 31, at 10 (providing examples of federal agency influence on funding).

³⁵ See *id.* at 27 (explaining contributions of public and private land management to habitat conservation).

³⁶ See *id.*

But in more precise terms of funding wildlife *management* and state wildlife agencies, the user-pay, user-benefit model is less disputed.

The history of the user-pay, user-benefit funding model illustrates the cooperative relationship between federal and state governments in the management of wildlife. Prior to 1937, many states regularly diverted game license revenue to general governmental purposes, other than fish and wildlife management.³⁷ The Pittman-Robertson Wildlife Restoration Act,³⁸ more commonly known as the Federal Aid in Wildlife Restoration Act, put an end to this practice.³⁹ The program put in place by the Act provides federal assistance to states for wildlife restoration projects and plans and hunter education.⁴⁰ In order to secure a more certain and predictable stream of funding for wildlife, the Act (and subsequent amendments to it) created a fund from taxes imposed on firearms, ammunition, and archery equipment.⁴¹ However, in order to receive federal funding, the law requires states to prohibit “the diversion of license fees paid by hunters for any other purpose than the administration of [the] State fish and game department.”⁴² In other words, the law conditions federal funding on states using state game license revenue for wildlife management and conservation.

A similar program focused on fisheries emerged from Congress in 1950. The Dingell-Johnson Sport Fish Restoration Act,⁴³ also referred to as the Federal Aid in Fish Restoration Act, funds sport fish restoration through excise taxes on fishing equipment, motorboat/small engine fuel, and baits.⁴⁴ It similarly includes a predicate for federal funding: states receiving Dingell-Johnson money must apply it to the administration of state fish and game departments.⁴⁵ Funding is used for fish restoration and management projects, defined in the law as “the restoration and management of all species of fish which have material value in connection with sport or recreation in the marine and/or fresh waters of the United States.”⁴⁶

The Pittman-Robertson and Dingell-Johnson Acts primarily focus on sport fish and game species. State funding for nongame species has not fared as well. Congress addressed this issue in passing the Fish and Wildlife Conservation Act of 1980.⁴⁷ Frequently referred to as the “Non-Game Act,” this law recognizes that the traditional focus on “recreationally and

³⁷ See Hal Herring, *In Current Rush to Buy Guns and Ammo, Pittman-Robertson Funds Break All Records*, FIELD & STREAM (May 9, 2013), <https://perma.cc/DV5X-889Y>.

³⁸ 16 U.S.C. §§ 669–669i (2012).

³⁹ See *id.* § 669.

⁴⁰ *Id.* §§ 669b, 669c, 669h-1.

⁴¹ See M. LYNNE CORN & JANE G. GRAVELLE, CONG. RESEARCH SERV., R42992, GUNS, EXCISE TAXES, AND WILDLIFE RESTORATION 2 fig.1 (2013) (providing yearly data of Pittman-Robertson receipts and distributions).

⁴² 16 U.S.C. § 669.

⁴³ *Id.* §§ 777–777m.

⁴⁴ *Digest of Federal Resource Laws of Interest to the U.S. Fish and Wildlife Service: Federal Aid in Sport Fish Restoration Act*, U.S. FISH & WILDLIFE SERV., <https://perma.cc/UG7W-QUMS> (last visited Nov. 11, 2017).

⁴⁵ 16 U.S.C. § 777(a).

⁴⁶ *Id.* § 777a(1).

⁴⁷ *Id.* §§ 2901–2912.

commercially important species” and “traditional financing mechanisms are neither adequate nor fully appropriate to meet the conservation needs of nongame fish and wildlife.”⁴⁸ The purpose of the Act is to fix this problem by providing “financial and technical assistance to the States for the development, revision, and implementation of conservation plans and programs for nongame fish and wildlife.”⁴⁹ Promise notwithstanding, this law never achieved its stated purpose because unlike the Pittman-Robertson and Dingell-Johnson Acts, it does not include an independent and more secure funding mechanism.⁵⁰ Instead, the law relied on funding from general congressional appropriations, which to date, Congress never provided to the program.⁵¹

Several initiatives have been waged in the past, at both national⁵² and state⁵³ levels, to deal with the lack of funding for nongame species management, and a related campaign is currently underway.⁵⁴ AFWA is part of a broad coalition seeking a solution to the problem of nongame funding.⁵⁵ We return to this issue in Part IV, as we believe it is imperative that states have the capacity and incentives to manage nongame species. Providing these resources will build trust and capacity at the state level, and help harmonize federal-state responsibilities over wildlife on federal lands.

C. The North American Model of Wildlife Conservation

The North American Model of Wildlife Conservation figures prominently in state claims and positions regarding wildlife management on federal lands. The Model was formally adopted by AFWA in 2002, and it views the Model (along with the public trust doctrine) as “the basis for state wildlife law.”⁵⁶ While the Model has no independent legal authority, it is referenced extensively in AFWA’s legal and educational materials, and is

⁴⁸ *Id.* § 2901(a)(4).

⁴⁹ *Id.* § 2901(b)(1).

⁵⁰ Removing Regulations Implementing the Fish and Wildlife Conservation Act, 75 Fed. Reg. 51,420, 51,420–21 (Aug. 20, 2010) (to be codified at 50 C.F.R. pt. 83).

⁵¹ *See id.* at 51,420 (removing regulations that implement the Fish and Wildlife Conservation Act because “funds never became available to carry out the Act”).

⁵² One of the more memorable campaigns was the unsuccessful effort in passing the Conservation and Reinvestment Act (CARA) of 2000. H.R. 701, 106th Cong. (2000).

⁵³ *See* Cindy McKinney et al., Investing in Wildlife: State Wildlife Funding Campaigns 20 fig.1 (Apr. 2005) (unpublished M.S. thesis, University of Michigan), <https://perma.cc/NSG4-TPD2>.

⁵⁴ *See generally* ASS’N OF FISH & WILDLIFE AGENCIES, SUSTAINING AND CONNECTING PEOPLE TO FISH AND WILDLIFE: A LOOMING CRISIS CAN BE AVOIDED, <https://perma.cc/BH9H-Z4NN> (last visited Nov. 11, 2017) (discussing incomplete fish and wildlife funding).

⁵⁵ *Id.*

⁵⁶ ASS’N OF FISH & WILDLIFE AGENCIES, WILDLIFE MANAGEMENT AUTHORITY: THE STATE AGENCIES’ PERSPECTIVE 13 (2014), <https://perma.cc/CR2T-U8A2> [hereinafter AFWA TASK FORCE REPORT]; *About: North American Model of Wildlife Conservation*, ASS’N FISH & WILDLIFE AGENCIES, <https://perma.cc/NE8Q-38ZM> (last visited Nov. 11, 2017).

also invoked frequently by state wildlife agencies and other institutions.⁵⁷ While it is beyond the scope of this Article to provide a thorough accounting and analysis of the Model, it plays a significant role in how states frequently frame issues and view their political and legal authority over wildlife.⁵⁸ We discuss the Model again in Part IV.B.2 by explaining how it can exacerbate conflict between federal and state governments.

First articulated by University of Calgary biologist Valerius Geist in the mid-1990s, the Model is a set of seven broadly stated principles, which include the following: 1) wildlife resources are a public trust; 2) markets for game are eliminated; 3) allocation of wildlife is by law; 4) wildlife can be killed only for a legitimate purpose; 5) wildlife is considered an international resource; 6) science is the proper tool to discharge wildlife policy; and 7) democracy of hunting is standard.⁵⁹

Embedded within each principle is a descriptive-historical accounting of wildlife conservation and a more normative-prescriptive component. The Model places extraordinary emphasis on the role played by hunters in American wildlife conservation, while paying relatively little regard to the preservation movement or the role played by federal lands and federal environmental law more generally.⁶⁰ Conspicuously missing from the Model, for example, is a principle focused on wildlife habitat, of which federal lands would be of obvious significance.

The normative and prescriptive part of the Model is more difficult to assess because of how differently actors interpret and use it. Some proponents of the Model, for example, claim that it “has often been interpreted to be more than its original articulators’ intention to describe key components of the philosophy and approach to wildlife conservation that developed in North America.”⁶¹ Critics of the Model, by contrast, see it as more than just a description of the past but rather as a narrow set of guiding principles for future wildlife conservation.⁶² This is because most references

⁵⁷ See, e.g., ARIZ. GAME & FISH DEP’T, NORTH AMERICAN MODEL OF WILDLIFE CONSERVATION, <https://perma.cc/Z2XW-X2X3> (last visited Nov. 11, 2017) (“The North American Model of Wildlife Conservation is the world’s most successful.”); WILDLIFE SOC’Y, STANDING POSITION: THE NORTH AMERICAN MODEL OF WILDLIFE CONSERVATION, <https://perma.cc/R4U9-6LBV> (last visited Nov. 11, 2017) (explaining that the policy of The Wildlife Society is to “[p]romote and support adherence to the seven core components [of the Model], identified by the Society, as the bedrock of the Model, by state, provincial, and federal governments”).

⁵⁸ See generally David Willms & Anne Alexander, *The North American Model of Wildlife Conservation in Wyoming: Understanding It, Preserving It, and Funding Its Future*, 14 WYO. L. REV. 659 (2014).

⁵⁹ Valerius Geist et al., *Why Hunting Has Defined the North American Model of Wildlife Conservation*, in TRANSACTIONS OF THE 66TH NORTH AMERICAN WILDLIFE AND NATURAL RESOURCES CONFERENCE 175, 176–80 (2001), <https://perma.cc/C53S-CTCS> (citing earlier references and antecedents to the Model).

⁶⁰ See *id.*

⁶¹ John F. Organ et al., *Public Trust Principles and Trust Administration Functions in the North American Model of Wildlife Conservation: Contributions of Human Dimensions Research*, 19 HUM. DIMENSIONS WILDLIFE 407, 408 (2014).

⁶² See Susan G. Clark & Christina Milloy, *The North American Model of Wildlife Conservation: An Analysis of Challenges and Adaptive Options*, in LARGE CARNIVORE CONSERVATION: INTEGRATING SCIENCE AND POLICY IN THE NORTH AMERICAN WEST 289, 301 (Susan

to the Model, as discussed further below, go beyond description and use it to justify various positions or decisions made by state wildlife agencies.⁶³ Clark and Milloy summarize: “Functionally, the model’s doctrine (principles) and formula (rules to implement the doctrine) guide current decision making about wildlife; they dictate how decisions are made, by whom, and for what purposes.”⁶⁴ What is striking to us about the Model is how little academic and professional scrutiny has been applied to it, as it is clearly but one possible accounting of wildlife conservation—past, present, and future.

Whatever might be its strengths and limitations, the Model clearly has political and policy influence, and helps us understand state positions on wildlife management, though often indirectly. Of most relevance here is the Model’s emphasis on the public trust doctrine, state primacy, and the importance of hunting to wildlife conservation. The public trust doctrine, as applied to wildlife, is regarded as the Model’s cornerstone.⁶⁵ Asserting that public trust principles relating to wildlife are most clearly found in state law, AFWA references the Model to “[a]dvocate for the primacy of state management authority for resident wildlife.”⁶⁶ Again, AFWA’s emphasis is that states have authority to manage fish and wildlife resources through a public trust and that it “assigns trustee ownership of fish and wildlife to the states.”⁶⁷ Access to public resources is commonly asserted in public trust cases (e.g., to oysters, tidelands, or streams), and state wildlife agencies and AFWA make similar linkages between states owning wildlife in trust, which necessitates providing public access to fish and wildlife.⁶⁸ We return to the public trust in wildlife issue in Part IV.A.2.

Also of relevance is the Model’s emphasis on hunting. As explained by the Model’s originators, though other interest groups such as bird enthusiasts played roles in the conservation movement, “[i]t is hunters, however, or, more accurately, *hunting*, that led to development of the [Model’s principles and] form[s] the foundation for North American wildlife

G. Clark & Murray B. Rutherford eds., 2014) (questioning “whether the model is capable of conserving wildlife and ecosystems into the future without major adaptations”); see also Michael P. Nelson et al., *An Inadequate Construct? North American Model: What’s Flawed, What’s Missing, What’s Needed*, WILDLIFE PROF., Summer 2011, at 58, 58 (arguing that “the rise in the Model’s popularity is worrisome in both its descriptive and prescriptive modes: One rests upon an inadequate account of history and the other on an inadequate ethic”).

⁶³ See, e.g., *infra* note 66 and accompanying text; see also discussion *infra* Part II.D.

⁶⁴ Clark & Milloy, *supra* note 62, at 312.

⁶⁵ See Organ et al., *supra* note 61, at 408; see also WILDLIFE SOC’Y, THE PUBLIC TRUST DOCTRINE: IMPLICATIONS FOR WILDLIFE MANAGEMENT AND CONSERVATION IN THE UNITED STATES AND CANADA 9 (2010), <https://perma.cc/5N5W-KG2S>.

⁶⁶ M. CAROL BAMBERY & MARTIN BUSHMAN, ASS’N OF FISH & WILDLIFE AGENCIES, THE STATES: TRUSTEES OF AMERICA’S WILDLIFE 13 (on file with authors).

⁶⁷ *Federal Interactions with State Management of Fish and Wildlife: Hearing Before the Subcomm. on Fisheries, Water, and Wildlife of the S. Comm. on Environment and Public Works*, 114th Cong. 9 (2016) [hereinafter *Hearing*] (statement of Ronald J. Regan, Executive Director, Association of Fish and Wildlife Agencies).

⁶⁸ See WILDLIFE SOC’Y, *supra* note 65, at 9 (emphasizing the importance of access to the public trust doctrine, including fishing, hunting, trapping, and travel routes).

conservation.”⁶⁹ AFWA similarly states that “[h]unting and angling are the cornerstones of the North American Model with sportsmen and women serving as the foremost funders of conservation.”⁷⁰ In this vein, proponents of the Model often speak to the importance of sportsmen and women-derived funds to state fish and wildlife agency budgets.⁷¹ This is not to suggest, however, that all proponents of the Model are necessarily endorsing an exclusive “user-pay, user-benefit” model of funding for the future. In fact, some proponents are actively searching for ways to increase funding for nongame species and want the Model applied to the conservation of biodiversity more broadly.⁷² However malleable the Model may prove itself to be in the future, at this point, it is very much hunting-centric, and this helps explain a common position of the states in various disputes, such as when federal agencies make decisions to restrict types of hunter access or when states advocate for more “active management” of wildlife on federal lands.⁷³

D. The 2014 AFWA Task Force Report

In 2014, AFWA commissioned a task force to investigate how state wildlife agency directors “perceive the relationship between state and federal agencies, by determining the relationship’s implications on states’ authority to manage wildlife, and by making recommendations to strengthen the relationship between state and federal conservation agencies.”⁷⁴ The Task Force Report illuminates how several state directors view the relationship between federal and state governments and the perceived legal sources of tension. Furthermore, many of the recommendations made by the Task Force are made by AFWA in other contexts, and the document was approved by state membership.⁷⁵

The report begins by invoking the North American Model of Wildlife Conservation, the wildlife trust doctrine, and the Tenth Amendment of the

⁶⁹ Geist et al., *supra* note 59, at 179; *see also* James R. Heffelfinger et al., *The Role of Hunting in North American Wildlife Conservation*, 70 INT’L J. ENVTL. STUD. 399, 399 (2013) (“Regulated hunting is the foundation of the North American Model of Wildlife Conservation.”).

⁷⁰ *About: North American Model of Wildlife Conservation*, *supra* note 56.

⁷¹ *See, e.g.*, AFWA TASK FORCE REPORT, *supra* note 56, at 30; *About: North American Model of Wildlife Conservation*, *supra* note 56.

⁷² *See, e.g.*, Organ et al., *supra* note 61, at 408 (recommending that all wildlife be managed under the principles of the Model and that it is not synonymous with the user-pay, user-benefit funding model); Willms & Alexander, *supra* note 58, at 659–61 (recommending alternative funding sources for wildlife management).

⁷³ For example, AFWA states that the Model “is the world’s most successful system of policies and laws to restore and safeguard fish and wildlife and their habitats through sound science and *active management*.” *About: North American Model of Wildlife Conservation*, *supra* note 56 (emphasis added); *see also* Joanna Prukop & Ronald J. Regan, *In My Opinion: The Value of the North American Model of Wildlife Conservation—An International Association of Fish and Wildlife Agencies Position*, 33 WILDLIFE SOC’Y BULL. 374, 376 (2005) (linking the Model to the importance of state primacy and the issue of access to wildlife resources).

⁷⁴ AFWA TASK FORCE REPORT, *supra* note 56, at 2.

⁷⁵ *See Hearing*, *supra* note 67, at 60–61 (statement of Executive Director Regan).

U.S. Constitution, which it asserts, “relegates to the states the responsibility of managing wildlife.”⁷⁶ To make the Model work, says the report, “[a] productive relationship between federal and state agencies” is necessary.⁷⁷ Unfortunately, the report finds that “[s]tate wildlife agency leadership harbors growing concern about the increasingly strained relationship between state wildlife agencies and their federal partners” and that there is “considerable and widespread frustration with the interface between federal and state efforts to conserve wildlife.”⁷⁸

Survey respondents were asked to identify specific laws, regulations, or policies that they believed were successful or challenging.⁷⁹ Most frequently identified as a challenge to the states was the Endangered Species Act⁸⁰ (ESA), which is perceived by some state agency directors “as a vehicle for federal overreach, or of inappropriate reallocation of states’ wildlife management duties into federal hands.”⁸¹ Also standing out in the survey were respondents citing the National Environmental Policy Act⁸² (NEPA) as a “hindrance to states’ efforts to manage wildlife”⁸³ due to threats of NEPA-based litigation and the “continued exclusion of states from meaningful partnerships in planning, decision-making, and management, except in the most cursory of consultative efforts.”⁸⁴

Of relevance to Part III.B of this Article are some state views on federal land laws in general. Emphasized in the report are the perceived problems associated with the open-ended nature of federal land laws that are believed to be interpreted in a preservationist “hands-off” fashion that makes active management of wildlife more difficult.⁸⁵ The task force report summarizes:

These laws leave room for loose interpretations of land management agency authority. The ambiguity allows local land managers latitude in their decision-making, and they often implement preservationist interpretations that encroach on state authorities. These interpretations, often based on unwritten values, drive agency decisions that are typically contrary to principles of wildlife, fisheries, and habitat management critical for state management.⁸⁶

The Federal Land Policy Management Act⁸⁷ (FLPMA) and the National Forest Management Act⁸⁸ (NFMA) are discussed in this context, with both

⁷⁶ AFWA TASK FORCE REPORT, *supra* note 56, at 5.

⁷⁷ *Id.* at 2, 4.

⁷⁸ *Id.* at 2.

⁷⁹ *Id.* at 6.

⁸⁰ Endangered Species Act of 1973, 16 U.S.C. §§ 1531–1544 (2012).

⁸¹ AFWA TASK FORCE REPORT, *supra* note 56, at 2, 8.

⁸² National Environmental Policy Act of 1969, 42 U.S.C. §§ 4321–4370h (2012).

⁸³ AFWA TASK FORCE REPORT, *supra* note 56, at 2.

⁸⁴ *Id.* at 11.

⁸⁵ *Id.* at 9.

⁸⁶ *Id.*

⁸⁷ Federal Land Policy and Management Act of 1976, 43 U.S.C. §§ 1701–1787 (2012).

⁸⁸ National Forest Management Act of 1976, 16 U.S.C. §§ 472a, 521b, 1600, 1611–1614 (2012) (amending Forest and Rangeland Renewable Resources Planning Act of 1974, Pub. L. No. 93-378, 88 Stat. 476).

laws often viewed as presenting obstacles to the management of “state trust species.”⁸⁹ These laws were not identified as inherently problematic, rather respondents focused on the “subjective and inconsistent application of their precepts.”⁹⁰

The AFWA Task Force makes a number of recommendations for improving relations between federal and state governments, most of which revolve around strengthening the position of state agencies in managing wildlife on federal lands.⁹¹ It also initiated a “legal strategy” in 2013 to enable state agencies “to act in concert to address challenges to their statutory authority to manage wildlife.”⁹² In short, AFWA aims to clarify—in law, regulation, policy, and public perception—what it sees as the rightful role of the states in managing wildlife on federal lands. Some of these recommendations are offered by AFWA and the Western Association of Fish and Wildlife Agencies (WAFWA) in other contexts,⁹³ such as recent congressional testimony.⁹⁴ For now, we simply summarize the core recommendations of the Task Force and provide the requisite background in other parts of the Article. We return and respond to AFWA’s recommendations in Part IV.

The AFWA Task Force begins by recommending training state and federal line managers “on the historic, principled underpinnings of state-federal authority and jurisdiction for managing fish and wildlife in the United States.”⁹⁵ The proposed training initiative is to be implemented through a Memorandum of Understanding (MOU).⁹⁶ A public affairs strategy “to market and defend state wildlife authority interests” is also envisioned as part of this educational effort.⁹⁷ Establishing a mediation team to more constructively resolve conflict between federal and state agencies is also recommended.⁹⁸

Driving some of the Task Force’s recommendations is a concern that federal land agencies are evolving in a way that is inconsistent with their organic legislation.⁹⁹ According to the Task Force, “[a]s conservation becomes more focused on landscape scale efforts, it is important that federal agencies integrate their conservation programs with the state agency

⁸⁹ AFWA TASK REPORT, *supra* note 56, at 9, 12.

⁹⁰ *Id.* at 2.

⁹¹ *See infra* notes 95–107 and accompanying text.

⁹² ASS’N OF FISH & WILDLIFE AGENCIES, PROTECTING STATE AUTHORITY FOR FISH AND WILDLIFE MANAGEMENT, <https://perma.cc/M3RG-8QEM> (last visited Nov. 11, 2017).

⁹³ *See, e.g.*, W. ASS’N OF FISH & WILDLIFE AGENCIES COMM’RS’ STATE AUTHS. SUBCOMM., WHITE PAPER: WILDLIFE MANAGEMENT SUBSIDIARITY 4 (2011) (“WAFWA recommends that Congress adopt new provisions that clearly establish state fish and wildlife management authority and direct that all federal regulations and policies be consistent with congressional intent.”).

⁹⁴ *See Hearing, supra* note 67, at 5–7 (statement of Executive Director Regan).

⁹⁵ AFWA TASK FORCE REPORT, *supra* note 56, at 17.

⁹⁶ *Id.*

⁹⁷ *Id.* at 29.

⁹⁸ *Id.* at 28–29.

⁹⁹ *See, e.g., id.* at 21 (“The [FWS’s] shift in focus has changed from direct fish and wildlife management with the protection and restoration of either single species or population to the maintenance of ecosystems and biodiversity.”).

programs and not get out ahead of the states and the public we serve.”¹⁰⁰ The Task Force elaborates:

[W]e must remember that the foundation for our fish and wildlife programs continues to be the people who enjoy our sports and continue to pay the lion’s share of the costs that provide these services. Many state fish and wildlife programs across our nation do not receive either state or federal general appropriations and as such must answer to a narrow constituency of supporters.¹⁰¹

This concern leads to the Task Force recommending more substantive legislative changes. The first is to modify the Sikes Act¹⁰² so that management by the Departments of the Interior and Agriculture comport with the law’s section pertaining to fish and wildlife management on lands administered by the Department of Defense.¹⁰³ This law, often referred to as the “Sikes Act Extension,” requires the Secretaries of Interior and Agriculture to “plan, develop, maintain, and coordinate programs for the conservation and rehabilitation of wildlife, fish, and game.”¹⁰⁴ The military section of the Sikes Act requires the cooperative preparation of natural resource management plans and that these plans “shall reflect the mutual agreement of the [federal and state] parties concerning conservation, protection, and management of fish and wildlife resources.”¹⁰⁵ There is no such language in the law pertaining to “mutual agreement” in the sections pertaining to the Departments of the Interior and Agriculture.¹⁰⁶ The Task Force would like the statute changed to include the following language: “The conservation plans and resulting programs shall reflect the mutual

¹⁰⁰ *Id.*

¹⁰¹ *Id.*

¹⁰² 16 U.S.C. §§ 670–670m (2012).

¹⁰³ *Id.* §§ 670f–670h; AFWA TASK FORCE REPORT, *supra* note 56, at 22.

¹⁰⁴ 16 U.S.C. § 670g(a).

¹⁰⁵ *Id.* § 670a(a)(2).

¹⁰⁶ Instead, the Sikes Act makes clear:

Conservation and rehabilitation programs developed and implemented pursuant to this subchapter shall be deemed as *supplemental* to wildlife, fish, and game-related programs conducted by the Secretary of the Interior and the Secretary of Agriculture pursuant to other provisions of law. Nothing in this subchapter shall be construed as limiting the authority of the Secretary of the Interior or the Secretary of Agriculture, as the case may be, to manage the national forests or other public lands for wildlife and fish and other purposes in accordance with the Multiple-Use Sustained-Yield Act of 1960 or other applicable authority.

Id. § 670h(c)(1)(C) (emphasis added) (citation omitted). Furthermore, any wildlife conservation and rehabilitation plans prepared pursuant to the Sikes Act must be consistent with applicable USFS or BLM land management plans. *See id.* § 670h(b); *see also* Michael J. Bean, *The Developing Law of Wildlife Conservation on the National Forest and National Resource Lands*, 4 J. CONTEMP. L. 58, 65 (1977) (finding the Sikes Act Extension to offer “no resolution, indeed no guidance for the resolution, of conflicts involving wildlife conservation and other uses of the public lands” and that “it does nothing to narrow the broad discretion which the federal land management agencies have traditionally exercised in fulfilling their multiple use mandates”).

agreement of the parties concerning conservation, protection, and management of fish and wildlife resources.”¹⁰⁷

As we explain later, federal land laws often include a “savings” clause addressing the relationship between federal and state powers.¹⁰⁸ AFWA emphasizes the importance of these provisions and makes a recommendation to “[s]trengthen existing Savings Clauses, expand new Savings Clauses to new congressional legislation as opportunities arise, and vigorously defend savings clauses to establish legal precedent.”¹⁰⁹

The Task Force expresses frustration in how the courts have viewed wildlife savings clauses in the past, most notably in the case of managing wildlife in the National Elk Refuge in Wyoming.¹¹⁰ As AFWA sees it, these savings clauses should be viewed as unambiguous and represent the clear intention of Congress to “reserve” state power and authority over wildlife on federal lands as “a necessary incident of state sovereignty.”¹¹¹ To fix this problem, the Task Force recommends replacing existing savings provisions with the following language:

Nothing in the Act shall be construed as affecting or intending to interfere with the laws of the several states to regulate hunting and fishing or to supersede, abrogate or otherwise impair the state’s primary jurisdiction to manage or control fish and resident wildlife in a manner not inconsistent with the purpose of this Act. The Secretary, in carrying out this Act, shall proceed in conformity with such applicable state laws, policies and management plans and shall cooperate with the states and develop jointly agreed upon wildlife management plans.¹¹²

This proposal is a fundamental reinterpretation of existing wildlife law, and we explain why it should be rejected in Part IV. We discuss savings clauses again in the context of federal preemption and in each section reviewing federal land laws.

¹⁰⁷ AFWA TASK FORCE REPORT, *supra* note 56, at 23.

¹⁰⁸ See Robert L. Fischman & Angela M. King, *Savings Clauses and Trends in Natural Resources Federalism*, 32 WM. & MARY ENVTL. L. & POL’Y REV. 129, 145 (2007) (describing how these provisions “delimit the degree to which a federal agency should pursue national objectives at the expense of a state’s different view” and can provide “a statement, and sometimes a mechanism, for incorporating state interests notwithstanding a statute that seeks to implement a uniform federal program”).

¹⁰⁹ AFWA TASK FORCE REPORT, *supra* note 56, at 17.

¹¹⁰ *Id.* at 17–18 (citing *Wyoming v. United States*, 279 F.3d 1214 (2002)).

¹¹¹ Brief of Amicus Curiae International Ass’n of Fish & Wildlife Agencies in Support of Plaintiff-Appellants & Reversal of the Decision Below at 8, *Wyoming*, 279 F.3d 1214 (10th Cir. 2002) (No. 99-8089) (citing *Ward v. Race Horse*, 163 U.S. 504, 510 (1896)).

¹¹² AFWA TASK FORCE REPORT, *supra* note 56, at 27.

III. THE LEGAL CONTEXT OF WILDLIFE MANAGEMENT ON FEDERAL LANDS

A. Constitutional Context

The U.S. Constitution provides the framework for federal-state relations and power-sharing arrangements, as well as individual obligations and limitations on authority for each level of government. Key provisions include the Property Clause,¹¹³ Treaty Clause,¹¹⁴ Commerce Clause,¹¹⁵ Supremacy Clause,¹¹⁶ and the Tenth Amendment.¹¹⁷ This Subpart explains the relevant constitutional clauses and legal precedents regarding federal powers and duties for wildlife management, and consequent implications for state authority.

1. The Property Clause

The United States' vast landholdings are concentrated in the American West and Alaska, but federal land can be found in all fifty states.¹¹⁸ As a landowner, the United States has proprietary interests over its lands and resources; as a government, it also has sovereign powers over its lands and resources.¹¹⁹ This Section focuses on the proprietary nature of the federal interest in public lands and wildlife.

a. The Nature and Scope of the Property Clause

The Property Clause gives Congress the “Power to dispose of and make all needful Rules and Regulations respecting the Territory or other Property belonging to the United States.”¹²⁰ Although the Supreme Court has found that the “full scope of this paragraph has never been definitely settled,” it has held that “[p]rimarily, at least, it is a grant of power to the United States of control over its property.”¹²¹ In theory, this plenary power is tempered by special duties regarding the administration of public lands and resources. “Executive branch officials, while having wide latitude to make all needful rules regarding the public lands, may have a countervailing trust-like responsibility to protect those resources on behalf of the public.”¹²² While the

¹¹³ U.S. CONST. art. IV, § 3, cl. 2.

¹¹⁴ *Id.* art. II, § 2, cl. 2.

¹¹⁵ *Id.* art. I, § 8, cl. 3.

¹¹⁶ *Id.* art. VI, cl. 2.

¹¹⁷ *Id.* amend. X.

¹¹⁸ CAROL HARDY VINCENT ET AL., CONG. RESEARCH SERV., R42346, FEDERAL LAND OWNERSHIP: OVERVIEW AND DATA 7–9 tbl.1 (2017), <https://perma.cc/FH94-GG8R>.

¹¹⁹ *See* *Concessions Co. v. Morris*, 186 P. 655, 658, 660 (Wash. 1919) (discussing the holding of *Fort Leavenworth R.R. Co. v. Lowe*, 114 U.S. 525 (1885)).

¹²⁰ U.S. CONST. art. IV, § 3, cl. 2.

¹²¹ *Kansas v. Colorado*, 206 U.S. 46, 89 (1907).

¹²² Sandra B. Zellmer, *The Devil, the Details, and the Dawn of the 21st Century Administrative State: Beyond the New Deal*, 32 ARIZ. ST. L.J. 941, 1032 (2000); *accord In re Stuart Transp. Co.*, 495 F. Supp. 38, 40 (E.D. Va. 1980) (“Under the public trust doctrine, the State of Virginia and

Supreme Court and several other federal courts have alluded to a federal trust responsibility for public lands and resources, the contours of such a responsibility are ill-defined.¹²³ The contours of the Property Clause power, however, are relatively clear.¹²⁴

*United States v. Grimaud*¹²⁵ was one of the first tests of the Property Clause power to protect federal public lands.¹²⁶ The Forest Reserve Act of 1897¹²⁷ authorized the Secretary of the Interior to

the United States have the right and the duty to protect and preserve the public's interest in natural wildlife resources. Such right does not derive from ownership of the resources but from a duty owing to the people." (emphasis added)).

¹²³ See, e.g., *Light v. United States*, 220 U.S. 523, 536 (1911) (identifying a duty "to protect the public domain from trespass and unlawful appropriation" (quoting *United States v. Beebe*, 127 U.S. 338, 342 (1888))); *W. Va. Div. of the Izaak Walton League of Am., Inc. v. Butz*, 522 F.2d 945, 950–55 (4th Cir. 1975) (noting the historic role of USFS as "custodian and protector" of forest reserves); *High Country Citizens' All. v. Norton*, 448 F. Supp. 2d 1235, 1246 (D. Colo. 2006) (finding a duty to assert federal reserved water rights for the Black Canyon of the Gunnison). In a series of cases involving Redwood National Park, the trust doctrine was invoked to require affirmative action to protect park resources from external threats posed by logging. See *Sierra Club v. Dep't of the Interior (Redwoods I)*, 398 F. Supp. 284, 293–94 (N.D. Cal. 1975), modified, *Sierra Club v. Dep't of the Interior (Redwoods III)*, 424 F. Supp. 172 (N.D. Cal. 1976); *Sierra Club v. Dep't of the Interior (Redwoods I)*, 376 F. Supp. 90, 95–96 (N.D. Cal. 1974).

¹²⁴ It is important to note that federal enclaves are distinct from federal public lands. Under the Enclave Clause, "Congress may acquire derivative legislative power from a State . . . by consensual acquisition of land, or by nonconsensual acquisition followed by the state's cession of authority over the land." *Kleppe v. New Mexico*, 426 U.S. 529, 542 (1976) (citation omitted). Specifically, the Clause gives Congress power "[t]o exercise exclusive Legislation in all Cases whatsoever, over such District (not exceeding ten Miles square) as may, by Cession of particular States, and the Acceptance of Congress, become the Seat of the Government of the United States, and to exercise like Authority over all Places purchased by the Consent of the Legislature of the State in which the Same shall be, for the Erection of Forts, Magazines, Arsenals, dock-Yards, and other needful buildings." U.S. CONST. art. I, § 8, cl. 17. In addition to giving Congress exclusive authority over the seat of federal government (Washington, D.C.), the Enclave Clause provides authority to purchase state land for a variety of federal purposes. See GEORGE CAMERON COGGINS & ROBERT L. GLICKSMAN, PUBLIC NATURAL RESOURCES LAW § 3:7 (2d ed. 2017) (noting that "Needful Buildings" . . . include[s] most federal purposes, including locks and dams, national parks, and national forests" (footnotes omitted)). Congress's power over federal enclaves is highly nuanced. See Spencer Driscoll, *Utah's Enabling Act and Congress's Enclave Clause Authority: Federalism Implications of a Renewed State Sovereignty Movement*, 2012 BYU L. REV. 999, 1000. If the state legislature expressly cedes jurisdiction over an enclave purchased by the United States, the United States exercises all legislative powers over the parcel to the exclusion of state authority. *Kleppe*, 426 U.S. at 542; *Fort Leavenworth R.R. Co.*, 114 U.S. at 532, 537–38. Otherwise, the federal and state governments are free to make whatever jurisdictional arrangements they choose regarding wildlife, transportation, and other civil and criminal laws. See *Fort Leavenworth R.R. Co.*, 114 U.S. at 533–42; see also *Kleppe*, 426 U.S. at 542 ("[T]he legislative jurisdiction acquired may range from exclusive federal jurisdiction with no residual state police power, to concurrent, or partial, federal legislative jurisdiction, which may allow the State to exercise certain authority." (citation omitted)); *United States v. Parker*, 36 F. Supp. 3d 550, 575–76, 584–85 (W.D.N.C. 2014) (holding that, where both the United States and North Carolina had concurrent jurisdiction within a forest enclave, the federal court had authority over a prosecution for the illegal taking of wildlife). Once agreed upon, states cannot unilaterally amend or cancel cession agreements. *United States v. Armstrong*, 186 F.3d 1055, 1061 (8th Cir. 1999).

¹²⁵ 220 U.S. 506 (1911).

make provisions for the protection against destruction by fire and depredations upon the public forests and forest reservations . . . and . . . such rules and regulations . . . as will insure the objects of such reservations, namely, to regulate their occupancy and use and to preserve the forests thereon from destruction.¹²⁸

With this authority, the Secretary of Agriculture¹²⁹ issued rules requiring ranchers to secure permits to graze livestock in forest reserves.¹³⁰

The defendants were charged with grazing sheep in a forest reserve without a permit.¹³¹ They argued that the Act was unconstitutional insofar as it delegated power to make regulations to the Secretary.¹³² The Supreme Court was unsympathetic. It held: “Each reservation had its peculiar and special features,” and Congress properly wielded the Property Clause to give the Secretary power to consider local conditions and “to fill up the details” of regulating “occupancy and use . . . to preserve the forests from destruction.”¹³³

The United States Court of Appeals for the Ninth Circuit reached a similar conclusion in a recent case involving rancher Wayne Hage, who gained a good deal of notoriety for his repeated trespasses on federal public lands in Nevada.¹³⁴ The court rejected Hage’s argument that state-sanctioned water rights entitled him to any additional easements or appurtenances to graze livestock on federal lands.¹³⁵

The Property Clause power to protect the public lands may also be used to protect natural resources that are intimately associated with the public lands, such as wildlife, water, and air.¹³⁶ In *Hunt v. United States*,¹³⁷ the Supreme Court held that the Property Clause included the power to thin overpopulated herds of deer on federal lands in order to protect forest

¹²⁶ *Id.* at 521–22; see Peter A. Appel, *The Power of Congress “Without Limitation”: The Property Clause and Federal Regulation of Private Property*, 86 MINN. L. REV. 1, 58–62 (2001) (discussing the Supreme Court’s broad interpretations of congressional authority under the Property Clause).

¹²⁷ Act of June 4, 1897, ch. 2, 30 Stat. 11 (1899).

¹²⁸ *Id.*, ch. 2, 30 Stat. at 35 (codified as amended at 16 U.S.C. § 551).

¹²⁹ In 1905, the authority changed from the Secretary of the Interior to the Secretary of Agriculture. See Act of Feb. 1, 1905, ch. 288, 33 Stat. 628 (1905).

¹³⁰ See *Grimaud*, 220 U.S. at 509–10 (discussing, for example, Regulation 45).

¹³¹ *Id.* at 509.

¹³² *Id.* at 510, 513–14.

¹³³ *Id.* at 515–17, 522 (citing *Wayman v. Southard*, 23 U.S. (10 Wheat.) 1, 42 (1825)); accord *Light*, 220 U.S. 523, 536 (1911) (enjoining grazing on a national forest without a permit and stating that “[t]he United States can prohibit absolutely or fix the terms on which its property may be used”).

¹³⁴ *United States v. Estate of Hage*, 810 F.3d 712, 716–18 (9th Cir. 2016) (citing, inter alia, *Light*, 220 U.S. at 536); see Jason Dearen, *Central ‘Sagebrush Rebellion’ Case Suffers Defeat*, SAN DIEGO UNION-TRIB. (Sept. 1, 2012), <https://perma.cc/PNK5-UX85>.

¹³⁵ See *Hage*, 810 F.3d at 715, 717–18.

¹³⁶ See *Kleppe*, 426 U.S. 529, 530 (1976) (“Congress’ complete authority over the public lands includes the power to regulate and protect the wildlife living there.”).

¹³⁷ 278 U.S. 96 (1928).

resources, even if the federal action was contrary to state law.¹³⁸ The Court subsequently construed *Hunt* quite broadly in *Kleppe v. New Mexico*, stating that, while *Hunt* found that “damage to the land is a sufficient basis for regulation; it contains no suggestion that it is a necessary one.”¹³⁹

Kleppe upheld the Wild Free-Roaming Horses and Burros Act,¹⁴⁰ which prohibited the capture and destruction of unclaimed horses and burros on public lands.¹⁴¹ When BLM invoked the Act to prevent New Mexico from capturing and selling burros, the state asserted that BLM lacked authority because the burros were neither moving in interstate commerce nor damaging public land.¹⁴² The issue was whether, under the Property Clause, BLM’s jurisdiction over burros was a “needful” regulation “respecting” public lands.¹⁴³

The district court below had found that the Act was unconstitutional and opined that the Property Clause authorized the regulation of wild animals only if necessary to protect the public lands from damage.¹⁴⁴ The Supreme Court disagreed, stating that the Property Clause power “necessarily” includes protection of wildlife “integral” to the public lands.¹⁴⁵ The Court noted that in passing the Wild Free-Roaming Horses and Burros Act, “Congress deemed [these] animals ‘an integral part of the natural system of the public lands,’ and found that federal management was necessary ‘for achievement of an ecological balance on the public lands.’”¹⁴⁶ According to Congress, these animals, if preserved in their native habitats, “contribute to the diversity of life forms within the Nation and enrich the lives of the American people.”¹⁴⁷

In reaching its conclusion, the Court explicitly rejected the district court’s rationale that federal power over wild horses and burros “conflicts with . . . the traditional doctrines concerning wild animals.”¹⁴⁸ It explained that, while “the States have broad trustee and police powers over wild animals within their jurisdictions . . . , those powers exist only ‘in so far as [their] exercise may be not incompatible with, or restrained by, the rights conveyed to the Federal government by the Constitution.’”¹⁴⁹ The Court clarified the balance of power between the federal and state governments:

¹³⁸ *Id.* at 100.

¹³⁹ *Kleppe*, 426 U.S. at 537.

¹⁴⁰ 16 U.S.C. §§ 1331–1340 (2012).

¹⁴¹ *Id.* § 1338(a). See generally Robert L. Fischman & Jeremiah I. Williamson, *The Story of Kleppe v. New Mexico: The Sagebrush Rebellion as Un-Cooperative Federalism*, 83 U. COLO. L. REV. 123 (2011) (providing the legal history and political implications of this decision).

¹⁴² *Kleppe*, 426 U.S. at 533.

¹⁴³ *Id.* at 536.

¹⁴⁴ See *id.* at 534 (citing *New Mexico v. Morton*, 406 F. Supp. 1237, 1239 (D.N.M. 1975)).

¹⁴⁵ *Id.* at 535, 540–41, 546.

¹⁴⁶ *Id.* at 535 (quoting 16 U.S.C. § 1331; H.R. REP. NO. 92-681, at 5 (1971) (Conf. Rep.)).

¹⁴⁷ 16 U.S.C. § 1331.

¹⁴⁸ *Kleppe*, 426 U.S. at 534–35 (omission in original) (quoting *Morton*, 406 F. Supp. at 1238).

¹⁴⁹ *Id.* at 545 (alteration in original) (quoting *Geer*, 161 U.S. 519, 528 (1896), *overruled by Hughes*, 441 U.S. 322 (1979)).

“No doubt it is true that as between a State and its inhabitants the State may regulate the killing and sale of [wildlife], but it does not follow that its authority is exclusive of paramount powers.” . . . *We hold today that the Property Clause also gives Congress the power to protect wildlife on the public lands, state law notwithstanding.*¹⁵⁰

In *Wyoming v. United States*,¹⁵¹ Wyoming challenged the refusal of FWS to permit the state to vaccinate elk on the National Elk Refuge (NER).¹⁵² The United States Court of Appeals for the Tenth Circuit stated that the Property Clause gives Congress the power to choose: “(1) to assume all management authority over the [National Wildlife Refuge System], including the NER, (2) to share management authority over those federal lands with the States, or (3) to preserve to its fullest extent the States’ historical role in the management of wildlife within their respective borders.”¹⁵³ The court held that federal law would preempt state management in the event of an actual conflict “or where state management . . . stand[s] as an obstacle to the accomplishment” of federal objectives.¹⁵⁴

States often assert their police powers to regulate the public health and welfare through measures that protect natural resources within the state, such as game species, trees, and water.¹⁵⁵ Although there is no explicit “Property Clause” authority in the U.S. Constitution extending to state interests in wildlife, water, or other natural resources, states occasionally assert an ownership interest as an additional source of their authority.¹⁵⁶ The Supreme Court has repeatedly rejected this theory, at least as it relates to wildlife and migratory birds: “To put the claim of . . . State [authority] upon

¹⁵⁰ *Id.* at 545–46 (alteration in original) (emphasis added) (quoting *Missouri*, 252 U.S. 416, 434 (1920)).

¹⁵¹ 279 F.3d 1214 (10th Cir. 2002).

¹⁵² *Id.* at 1218.

¹⁵³ *Id.* at 1230.

¹⁵⁴ *See id.* at 1234. According to the court, Congress “rejected complete preemption of state wildlife regulation” in the National Wildlife Refuge System, but rather “intended ordinary principles of conflict preemption to apply.” *Id.* The United States District Court for the District of California followed *Wyoming* in holding that a state ballot proposition that banned the use of certain kinds of traps and poisons on federal lands was preempted by the Property Clause. *Nat’l Audubon Soc’y, Inc. v. Davis*, 144 F. Supp. 2d 1160, 1180–81 (N.D. Cal. 2000), *aff’d in part and rev’d in part*, 307 F.3d 835, 837 (9th Cir. 2002), *amended on denial of reh’g*, 312 F.3d 416, 418 (9th Cir. 2002). The Ninth Circuit did not reach the Property Clause issue, instead holding that the proposition was preempted by the National Wildlife Refuge System Administration Act. *Nat’l Audubon Soc’y, Inc. v. Davis*, 307 F.3d at 854; *accord* *Defs. of Wildlife v. Salazar*, 651 F.3d 112, 118 (D.C. Cir. 2011) (“tak[ing] the Secretary at his word that Wyoming has no veto over the Secretary’s duty to end a practice that is concededly at odds with the long-term health of the elk and bison in the Refuge,” while pointing out Wyoming’s brief “agreeing that Wyoming does not have a veto”).

¹⁵⁵ *See, e.g., Maine v. Taylor*, 477 U.S. 131, 151 (1986) (“[Each state] retains broad regulatory authority to protect . . . the integrity of its natural resources” such as fisheries.); *Miller v. Schoene*, 276 U.S. 272, 280–81 (1928) (upholding Virginia’s decree to cut down infected cedars that were fatal to nearby apple orchards).

¹⁵⁶ *See, e.g., Geer*, 161 U.S. 519, 535 (1896) (claiming that ownership of all wild game taken within the state allowed the state to prohibit its removal from the state), *overruled by Hughes*, 441 U.S. 322 (1979).

title is to lean upon a slender reed.”¹⁵⁷ Even absent title, states have “ample allowance for preserving . . . the legitimate state concerns for conservation and protection of wild animals underlying the 19th-century legal fiction of state ownership,”¹⁵⁸ but as noted in *Kleppe, Wyoming*, and numerous other cases, state law may not contravene federal law.¹⁵⁹

b. Property Clause Power to Protect Federal Lands and Resources from External Threats

Not only does the Property Clause supply authority to regulate activities that occur on federal lands, but in certain cases, it also authorizes federal regulation of activities outside of the federal boundaries where necessary to protect the public lands and resources. In *Camfield v. United States*,¹⁶⁰ the owner of several sections of private land acquired from the Union Pacific Railroad fenced his land in a way that also enclosed about 20,000 acres of public lands.¹⁶¹ When the United States sought to remove the fence under the Unlawful Enclosures Act of 1885,¹⁶² Camfield argued that the United States had no power to control private land use.¹⁶³ The Supreme Court upheld the application of the Act to Camfield’s property, explaining that under the Property Clause, the federal government “doubtless has a power over its own property analogous to the police power of the several States, and the extent to which it may go in the exercise of such power is measured by the exigencies of the particular case.”¹⁶⁴

The courts have consistently upheld “broad [federal] power to control extraterritorial private activities that might adversely affect federal property.”¹⁶⁵ For instance, federal restrictions on businesses situated outside of a national park have been upheld when those business enterprises

¹⁵⁷ *Missouri*, 252 U.S. 416, 434 (1920); see also *Hughes*, 441 U.S. at 332.

¹⁵⁸ *Hughes*, 441 U.S. at 335.

¹⁵⁹ *Kleppe*, 426 U.S. 529, 545 (1976); *Wyoming*, 279 F.3d 1214, 1227; see also, e.g., *Hughes*, 441 U.S. at 338–39.

¹⁶⁰ 167 U.S. 518 (1897).

¹⁶¹ *Id.* at 519.

¹⁶² 43 U.S.C. §§ 1061–1066 (2012).

¹⁶³ *Camfield*, 167 U.S. at 522.

¹⁶⁴ *Id.* at 525; see *Utah Div. of State Lands v. United States*, 482 U.S. 193, 201 (1987) (“The Property Clause grants Congress plenary power to regulate and dispose of land within the Territories . . .”); *United States v. Midwest Oil Co.*, 236 U.S. 459, 483 (1915) (upholding president’s decision to withdraw land to preserve oil reserves); *Light*, 220 U.S. 523, 536 (1911) (“The United States can prohibit absolutely or fix the terms on which its property may be used.”); see also *Organized Fisherman of Fla. v. Hodel*, 775 F.2d 1544, 1549 (11th Cir. 1985) (finding that Florida law provided no vested property right for commercial fishing in a national park); *Organized Fisherman of Fla. v. Andrus*, 488 F. Supp. 1351, 1355 (S.D. Fla. 1980) (refusing to enjoin enforcement of federal regulations restricting fishing in a national park given Congress’s “complete power” over public lands which “necessarily includes the power to regulate and protect the wildlife living there” (citing *Kleppe*, 426 U.S. at 540–41)).

¹⁶⁵ Appel, *supra* note 126, at 77–78.

affected neighboring parklands.¹⁶⁶ Moreover, federal regulation of activities on state-owned waters was upheld as a valid exercise of Property Clause power to manage the Boundary Waters Canoe Area Wilderness.¹⁶⁷

Beyond the land itself, it is fair to ask how far federal authority over wildlife and other migratory resources “integral” to the public lands goes when those resources are found outside of the boundaries of the public lands. In *Kleppe*, the contested issue involved the federal regulation of nonfederal activity on federal land (i.e., the State of New Mexico captured wild burros on a grazing allotment), and while the Act in question reached nonfederal land as well, the Supreme Court was not required to address the regulation of state or private activities on nonfederal land.¹⁶⁸

Other than *Kleppe*, few cases touch upon the Property Clause power to regulate “integral” wildlife outside of the boundaries of the federal lands, perhaps because federal agencies and their employees tend to be reluctant to exercise their power aggressively.¹⁶⁹

2. The Treaty Clause

The Treaty Clause provides that: “[The President] shall have the Power . . . to make Treaties, provided two thirds of the Senators present

¹⁶⁶ See, e.g., *Armstrong*, 186 F.3d 1055, 1061–62 (8th Cir. 1999) (“[R]egulation requiring that commercial tour boat operators obtain a permit before operating . . . within [Voyageurs National Park] is well within the authority of the NPS.”); *United States v. Richard*, 636 F.2d 236, 240 (8th Cir. 1980) (“[F]ederal regulation may exceed federal boundaries when necessary for the protection of human life or wildlife or government forest land or objectives.”).

¹⁶⁷ See, e.g., *Minnesota v. Block*, 660 F.2d 1240, 1249 (8th Cir. 1981) (“Congress’ power must extend to regulation of conduct on or off the public land that would threaten the designated purpose of federal lands.”); *United States v. Brown*, 552 F.2d 817, 822 (8th Cir. 1977) (stating that “congressional power over federal lands . . . include[s] the authority to regulate activities on non-federal public waters in order to protect wildlife and visitors on the lands”); see also *Stupak-Thrall v. United States*, 89 F.3d 1269, 1269, 1272 (6th Cir. 1996) (en banc) (an equally divided court affirmed district court in that the federal government could regulate private activities that occurred on the surface of a lake even if the surface was private property); *Organized Fisherman of Fla.*, 775 F.2d 1544, 1549 (11th Cir. 1985) (upholding federal restrictions on fishing on waters within Everglades National Park, some of which were presumably under state jurisdiction); *United States v. Lindsey*, 595 F.2d 5, 6 (9th Cir. 1979) (stating that the Property Clause “grants to the United States power to regulate conduct on non-federal land when reasonably necessary to protect adjacent federal property or navigable waters”); *Grand Lake Estates Homeowners Ass’n v. Veneman*, 340 F. Supp. 2d 1162, 1167–69 (D. Colo. 2004) (holding USFS could require special use permits on docks and marinas on Association’s land if reasonably necessary to protect the environment and water quality of Arapaho National Recreation Area).

¹⁶⁸ *Kleppe*, 426 U.S. at 546 (“We need not, and do not, decide whether the Property Clause would sustain the Act in all of its conceivable applications.”).

¹⁶⁹ See generally Joseph L. Sax & Robert B. Keiter, *Glacier National Park and Its Neighbors: A Study of Federal Interagency Relations*, 14 *ECOLOGY L.Q.* 207, 226, 260 (1987) (describing how NPS’s “distaste for confrontation makes it timid,” and how “constrained by bureaucratic prudence and timidity. . . . [NPS] is reluctant to use the law; highly deferential to the traditional turf prerogatives of its neighbors; and hesitant to subject itself to criticism by speaking out forcefully on transboundary issues”).

concur.”¹⁷⁰ In recognition of the international nature of wildlife conservation, the United States has entered into several landmark wildlife treaties within the past century, which Congress has implemented through domestic legislation.¹⁷¹ With respect to the management of wildlife on federal lands, the most notable of these include the Migratory Bird Treaty of 1916¹⁷² and the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES).¹⁷³ Other international provisions include the Agreement on the Conservation of Polar Bears,¹⁷⁴ the Pacific Salmon Treaty,¹⁷⁵ the Northwest Atlantic Fisheries Treaty,¹⁷⁶ the Migratory Bird and Game Mammal Treaty with Mexico,¹⁷⁷ and the International Convention for the Regulation of Whaling.¹⁷⁸ These treaties are implemented through the Marine Mammal Protection Act,¹⁷⁹ the Magnuson-Stevens Fishery Conservation and Management Act,¹⁸⁰ the Whaling Convention Act,¹⁸¹ and other pieces of domestic legislation.¹⁸² The next Section of the Article focuses on the Migratory Bird Treaty’s implementing legislation.

¹⁷⁰ U.S. CONST. art. II, § 2, cl. 2.

¹⁷¹ See, e.g., Convention on International Trade in Endangered Species of Wild Fauna and Flora, Mar. 3, 1973, 27 U.S.T. 1087 (“Recognizing . . . that international cooperation is essential for the protection of . . . wild fauna and flora.”).

¹⁷² Convention Between the United States and Great Britain for the Protection of Migratory Birds in the United States and Canada, Gr. Brit.-U.S., Aug. 16, 1916, 39 Stat. 1702 (codified as amended at 16 U.S.C. §§ 703–712 (2012)).

¹⁷³ Convention on International Trade in Endangered Species of Wild Fauna and Flora, *supra* note 171. CITES is implemented in the United States through the ESA, which, like CITES, controls imports and exports of protected species. 16 U.S.C. § 1531(a)(4)(F); *id.* § 1538(a)(1)(A), (a)(2)(A), (c)–(d); see *Safari Club Int’l v. Jewell*, 960 F. Supp. 2d 17, 67–68 (D.D.C. 2013) (noting that conserving species within their ecosystems is one purpose of the ESA, “but other purposes are ‘to provide a program for the conservation of such endangered species and threatened species, and to take such steps as may be appropriate to achieve the purposes of the treaties and conventions set forth in subsection (a)[,]’ including the CITES” (alteration in original)). As such, the ESA finds its constitutional basis in part in the Treaty Clause, though other provisions of the ESA are more firmly founded on the Commerce Clause. See *infra* discussion Part III.A.3.c.

¹⁷⁴ Agreement on the Conservation of Polar Bears, Nov. 15, 1973, 27 U.S.T. 3918.

¹⁷⁵ Treaty Between the United States of America and the Canada Concerning Pacific Salmon, Can.-U.S., Jan. 28, 1985, T.I.A.S. No. 11,091.

¹⁷⁶ International Convention for the Northwest Atlantic Fisheries, Jul. 3, 1950, 64 Stat. 1067, 1 U.S.T. 477 (codified at 16 U.S.C. §§ 981–991)).

¹⁷⁷ Convention Between the United States of America and the United Mexican States for the Protection of Migratory Birds and Game Mammals, Mex.-U.S., Mar. 10, 1972, 23 U.S.T. 260.

¹⁷⁸ International Convention for the Regulation of Whaling, Dec. 2, 1946, 62 Stat. 1716, T.I.A.S. No. 1849. For an assessment of wildlife and biodiversity related treaties that have not yet been ratified by the United States, including the Convention on Biological Diversity, see MARY JANE ANGELO ET AL., *CTR. FOR PROGRESSIVE REFORM*, WHITE PAPER NO. 1201, *RECLAIMING GLOBAL ENVIRONMENTAL LEADERSHIP: WHY THE UNITED STATES SHOULD RATIFY TEN PENDING ENVIRONMENTAL TREATIES* (2012), <https://perma.cc/5NB3-6ZEE>.

¹⁷⁹ Marine Mammal Protection Act of 1972, 16 U.S.C. §§ 1361–1421h.

¹⁸⁰ *Id.* §§ 1801–1891d.

¹⁸¹ Whaling Convention Act of 1949, *id.* §§ 916–916I.

¹⁸² See ANGELO ET AL., *supra* note 178, at 2; David M. Golove, *Treaty-Making and the Nation: The Historical Foundations of the Nationalist Conception of the Treaty Power*, 98 MICH. L. REV. 1075, 1313–15 (2000) (advocating a federalist approach to implementing domestic treaties).

a. Migratory Bird Treaty of 1916

In 1916, the United States entered into a treaty with Great Britain (on behalf of Canada) to ensure the preservation of “such migratory birds as are either useful to man or harmless.”¹⁸³ The Migratory Bird Treaty Act of 1918¹⁸⁴ (MBTA) ratified the treaty and imposed stringent prohibitions on the taking, capturing, hunting, and killing of protected birds.¹⁸⁵ According to George Cameron Coggins, “[t]he origins of modern federal wildlife law may be traced back to the MBTA.”¹⁸⁶

Almost immediately after ratification and enactment, the states challenged the constitutionality of the treaty and the MBTA.¹⁸⁷ Today, the Supreme Court’s opinion in *Missouri v. Holland* remains a significant benchmark for federal Treaty Clause authority.¹⁸⁸ The case involved a suit brought by the State of Missouri to enjoin a federal game warden from enforcing the MBTA, which implements the 1916 treaty by prohibiting any person from pursuing or killing migratory birds except as authorized by regulations issued by the Secretary of Agriculture.¹⁸⁹ More specifically, the MBTA states that it is:

unlawful at any time, by any means or in any manner, to pursue, hunt, take, capture, kill, attempt to take, capture, or kill, possess, offer for sale, sell, offer to barter, barter, offer to purchase, purchase, deliver for shipment, ship,

¹⁸³ Convention Between the United States and Great Britain for the Protection of Migratory Birds in the United States and Canada, *supra* note 172, at 1702.

¹⁸⁴ 16 U.S.C. §§ 710–711.

¹⁸⁵ *Id.* § 703(a).

¹⁸⁶ George Cameron Coggins, *Federal Wildlife Law Achieves Adolescence: Developments in the 1970s*, 1978 DUKE L.J. 753, 764; *see also* Meredith Blaydes Lilley & Jeremy Firestone, *Wind Power, Wildlife, and the Migratory Bird Treaty Act: A Way Forward*, 38 ENVTL. L. 1167, 1179 (2008).

¹⁸⁷ *See, e.g., Missouri*, 252 U.S. 416, 432–35 (1920) (holding that the MBTA is constitutional under Congress’s express and exclusive Constitutional authority to make and ratify treaties). Prior to ratification and passage of the MBTA, an earlier version of a statute to protect migratory birds had been invalidated as beyond constitutional authority. *See United States v. Shauver*, 214 F. 154, 157–60 (E.D. Ark. 1914) (holding that the statute was unconstitutional for, *inter alia*, its usurpation of the states’ sovereign right to own all animals *feræ naturæ*, which are denominated as game, for the benefit of its citizens).

¹⁸⁸ *Missouri*, 252 U.S. at 432.

¹⁸⁹ The MBTA’s prohibitions apply broadly to state actors and others. 16 U.S.C. § 703(a); *Missouri*, 252 U.S. at 430–31. Courts, however, have since reached conflicting results on the MBTA’s ability to restrict federal actors. *See Humane Soc’y of the U.S. v. Glickman*, 217 F.3d 882, 885–87 (D.C. Cir. 2000) (finding that the MBTA applies to federal agencies and federal actors, because the Act enforces a treaty binding upon the United States and, therefore, is binding on the federal agencies); *Audubon Soc’y of Portland v. U.S. Fish & Wildlife Serv.*, No. 04-670-KI, 2005 WL 1713086, at *4 (D. Or. July 21, 2005) (applying the MBTA to federal agencies, but finding that they were not liable for habitat destruction); *Ctr. for Biological Diversity v. Pirie*, 191 F. Supp. 2d 161, 177–78 (D.D.C. 2002) (applying the MBTA to the Department of Defense and holding it in violation), *vacated as moot sub nom.*, *Ctr. for Biological Diversity v. England*, Nos. 02-5163, 02-5180, 2003 WL 179848 (D.C. Cir. Jan. 23, 2003). *But see Sierra Club v. Martin*, 110 F.3d 1551, 1556 (11th Cir. 1997) (finding that because federal agencies must conserve birds under other statutes, the MBTA does not apply to federal agencies).

export, import, cause to be shipped, exported, or imported, deliver for transportation, transport or cause to be transported, carry or cause to be carried, or receive for shipment, transportation, carriage, or export, any migratory bird, any part, nest, or egg of any such bird, or any product, whether or not manufactured, which consists, or is composed in whole or part, of any such bird or any part, nest, or egg thereof.¹⁹⁰

In *Missouri v. Holland*, the Supreme Court held that the Treaty Clause provided a viable avenue for federal regulation of wildlife, despite the state's claim of a predominant interest in the wildlife in question.¹⁹¹ Under *Missouri v. Holland*, the test to determine a treaty's validity is two-fold: 1) Is the matter involved of national interest? 2) Does the treaty contravene any specific constitutional prohibition?¹⁹² If the first is answered in the affirmative, and the second in the negative, the treaty is valid.¹⁹³

With respect to the Migratory Bird Treaty, the answer to the first question was a resounding "yes," according to the Supreme Court:

Here a national interest of very nearly the first magnitude is involved. It can be protected only by national action in concert with that of another power. The subject matter [i.e., migratory birds] is only transitorily within the State and has no permanent habitat therein. But for the treaty and the statute there soon might be no birds for any powers to deal with. We see nothing in the Constitution that compels the Government to sit by while a food supply is cut off and the protectors of our forests and our crops are destroyed. It is not sufficient to rely upon the States. The reliance is vain.¹⁹⁴

As to the second question, the Court explicitly rejected the state's argument that the Treaty contravened the Tenth Amendment, which reserves power to the states if not delegated to the United States by the Constitution.¹⁹⁵ According to the Court, "[t]he treaty in question does not contravene any prohibitory words to be found in the Constitution," nor is the treaty "forbidden by some invisible radiation from the general terms of the Tenth Amendment."¹⁹⁶ Thus, the state's interest in managing migratory birds covered by the MBTA, whether that interest rested upon some claim of ownership (which the Court disregarded) or on traditional state police

¹⁹⁰ 16 U.S.C. § 703(a).

¹⁹¹ *Missouri*, 252 U.S. at 432–35.

¹⁹² *Id.* at 433.

¹⁹³ See Oona A. Hathaway et al., *The Treaty Power: Its History, Scope, and Limits*, 98 CORNELL L. REV. 239, 266, 279 (2013) (explaining that Treaty Powers are limited by "affirmative guarantees [that] are set forth explicitly in the Bill of Rights' recognition and guarantee of individual rights and in the Constitution's provisions prescribing the structure of the national government . . . [including] the preservation of a continuing role for the states and maintenance of certain areas of state authority and control," but concluding that invalidation is exceedingly rare, so "the real protections against abuse of the treaty power derive from the structural, political, and diplomatic checks on the exercise of the power").

¹⁹⁴ *Missouri*, 252 U.S. at 435.

¹⁹⁵ *Id.* at 433–34.

¹⁹⁶ *Id.*

powers, must give way.¹⁹⁷ It explained, “[v]alid treaties of course ‘are as binding within the territorial limits of the States as they are elsewhere throughout the dominion of the United States.’”¹⁹⁸ In the end, the Court held that the Treaty was lawful, and thus, the MBTA was lawful as well pursuant to the Treaty Clause, the Supremacy Clause, and the Necessary and Proper Clause.

3. The Tenth Amendment and the Commerce Clause

The Tenth Amendment often forms the basis of state claims of exclusive jurisdiction over wildlife. The Tenth Amendment states: “The powers not delegated to the United States by the Constitution, nor prohibited by it to the States, are reserved to the States respectively, or to the people.”¹⁹⁹ The Tenth Amendment and the Commerce Clause seem to be inextricably entwined in federal wildlife management discussions, so it is necessary to discuss the interplay of both provisions together.

a. The Evolution of the Anti-Commandeering Doctrine

The Tenth Amendment was ratified on December 15, 1791,²⁰⁰ and is similar to an earlier provision of the Articles of Confederation which read: “Each State retains its sovereignty, freedom, and independence, and every power, jurisdiction, and right, which is not by this confederation *expressly* delegated to the United States, in Congress assembled.”²⁰¹ Ultimately, the word “expressly” did not appear in the Tenth Amendment as ratified.

Early in American history, the Supreme Court seemed to assume the Tenth Amendment was a strong and limiting power of the Constitution.²⁰² However, by the early 20th century the Court’s view of the Tenth Amendment shifted significantly. In *United States v. Darby*,²⁰³ the Court stated:

¹⁹⁷ *Id.* at 434.

¹⁹⁸ *Id.* (quoting *Baldwin v. Franks*, 120 U.S. 678, 683 (1887)).

¹⁹⁹ U.S. CONST. amend. X.

²⁰⁰ *The Bill of Rights: A Transcription*, NAT’L ARCHIVES, <https://perma.cc/6WWG-KH2L> (last reviewed Nov. 11, 2017).

²⁰¹ ARTICLES OF CONFEDERATION of 1781, art. II (emphasis added); see *Amendment X: House of Representatives, Amendments to the Constitution*, FOUNDERS’ CONST., <https://perma.cc/7U44-AZQ3> (last visited Nov. 11, 2017) (discussing James Madison objecting to a proposed version of the Tenth Amendment).

²⁰² See *Hammer v. Dagenhart*, 247 U.S. 251, 275–76 (1918) (invalidating federal child labor laws, and remarking upon the “inherent” power of the states to regulate “purely internal affairs”), *overruled in part by* *United States v. Darby*, 312 U.S. 100 (1941); see also *Carter v. Carter Coal Co.*, 298 U.S. 238, 294–95 (1936) (invalidating federal regulation of coal production and stating that the Framers “meant to carve from the general mass of legislative powers, then possessed by the states, only such portions as it was thought wise to confer upon the federal government . . . with the result that what was not embraced by the enumeration remained vested in the states without change or impairment”).

²⁰³ 312 U.S. 100 (1941).

The [Tenth A]mendment states but a truism that all is retained which has not been surrendered. There is nothing in the history of its adoption to suggest that it was more than declaratory of the relationship between the national and state governments as it had been established by the Constitution before the amendment or that its purpose was other than to allay fears that the new national government might seek to exercise powers not granted, and that the states might not be able to exercise fully their reserved powers.²⁰⁴

Since *Darby*, it has become exceedingly uncommon for the Supreme Court to invalidate federal laws under the Tenth Amendment.²⁰⁵ The Anti-Commandeering Doctrine arising from *New York v. United States*²⁰⁶ is the exception. There, the Court invalidated a portion of the Low-Level Radioactive Waste Policy Amendments Act of 1985²⁰⁷ (RWPA).²⁰⁸ The RWPA required states to take title to any undisposed low-level radioactive waste within their borders and made each state liable for all damages directly related to that waste.²⁰⁹ The Court ruled that the imposition of taking title violated the Tenth Amendment, as the federal government could not directly compel states to enforce federal regulations.²¹⁰

In *Printz v. United States*,²¹¹ the Court, again utilizing the Anti-Commandeering Doctrine, found that provisions of the Brady Bill²¹² requiring state and local law enforcement officials to conduct background checks on persons attempting to purchase handguns was a violation of the Tenth Amendment, as the Bill forced participation of the state officials in the administration of a federal program.²¹³ Similarly, in *National Federation of Independent Business v. Sebelius*,²¹⁴ the Court held that the Affordable Care Act²¹⁵ (also known as Obamacare) coerced the states to expand Medicaid.²¹⁶ Although other provisions of the Act were upheld, the Court found that the Medicaid provision effectively forced states to participate by conditioning the continued provision of funds on their agreement to materially alter their Medicaid eligibility criteria.²¹⁷

In the modern era, the Tenth Amendment's primary role in regulating the balance of powers between the federal and state governments is

²⁰⁴ *Id.* at 124.

²⁰⁵ U.S. CONST. amend. X.

²⁰⁶ 505 U.S. 144 (1992).

²⁰⁷ 42 U.S.C. §§ 2021b–2021j (2012).

²⁰⁸ *New York*, 505 U.S. at 149.

²⁰⁹ 42 U.S.C. § 2021e(d)(2)(C).

²¹⁰ *New York*, 505 U.S. at 176–77, 184.

²¹¹ 521 U.S. 898 (1997).

²¹² Brady Handgun Violence Prevention Act, 18 U.S.C. § 922 (2012).

²¹³ *Printz*, 521 U.S. at 933–34 (citing *New York*, 505 U.S. at 188).

²¹⁴ 567 U.S. 519 (2012).

²¹⁵ Patient Protection and Affordable Care Act, Pub. L. No. 111-148, 124 Stat. 119 (2010) (codified in scattered sections of 25, 26, and 42 U.S.C.). The Medicaid expansion is codified at 42 U.S.C. § 1396a(a)(10)(A)(i)(VIII) (2012).

²¹⁶ *Sebelius*, 567 U.S. at 588.

²¹⁷ *Id.*

expressed through the Anti-Commandeering Doctrine.²¹⁸ Commandeering occurs when Congress “require[s] the States in their sovereign capacity to regulate their own citizens,” *not* when federal legislation with an administrative and financial impact on state bureaucracy regulates public and private conduct alike.²¹⁹

b. The Tenth Amendment’s Application to Wildlife Management

Prior to 1920, very little judicial activity occurred regarding the interplay of the Tenth Amendment and federal wildlife control.²²⁰ One of the first decisions on the scope of the Tenth Amendment regarding federal wildlife control was *Missouri v. Holland*, which upheld the MBTA.²²¹ As noted above, the Supreme Court flatly rejected Missouri’s argument that the MBTA violated the Tenth Amendment, finding that there were no reserved state powers that would stand in the way of federal enforcement of an act arising under the Treaty power.²²²

It was not until *Palila v. Hawaii Department of Land and Natural Resources*²²³ that the courts again took up the issue of the Tenth Amendment’s implications for federal wildlife management.²²⁴ There, the Hawaii Department of Land and Natural Resources maintained herds of feral sheep and goats for sport-hunting purposes on state-owned lands.²²⁵ These herds were causing significant habitat modification and destruction within the critical habitat of the Palila bird (*Psittirostra bailleui*), a listed species under the ESA.²²⁶ Conservation groups sought declaratory and injunctive relief requiring Hawaii to adopt a plan to eradicate the feral sheep and goat

²¹⁸ See *Massachusetts v. U.S. Dep’t of Health & Human Servs.*, 682 F.3d 1, 12 (1st Cir. 2012) (“Supreme Court interpretations of the Tenth Amendment have varied over the years but those in force today have struck down statutes only where Congress sought to commandeer state governments or otherwise directly dictate the *internal operations* of state government.”).

²¹⁹ *Reno v. Condon*, 528 U.S. 141, 151 (2000); see *Nuclear Energy Inst., Inc. v. Evtl. Prot. Agency*, 373 F.3d 1251, 1305 (D.C. Cir. 2004) (holding that Congress’s designation of a federally owned site for a nuclear repository did not commandeer the state legislative process or officials, but rather merely prescribed the use of federal property); *United States v. Washington*, 887 F. Supp. 2d 1077, 1101 (D. Mont. 2012) (rejecting Tenth Amendment challenge to federal prosecution of participants in state-authorized medical marijuana program).

²²⁰ Although it did not address the Tenth Amendment, in *Geer v. Connecticut*, the Court held that “the ownership of wild animals, so far as they are capable of ownership, is in the state, not as a proprietor, but in its sovereign capacity, as a representative and for the benefit of all its people in common.” 161 U.S. 519, 529 (1896) (quoting *State v. Rodman*, 59 N.W. 1098, 1099 (Minn. 1894)), *overruled by Hughes*, 441 U.S. 322 (1979).

²²¹ *Missouri*, 252 U.S. 416, 435 (1920).

²²² *Id.* at 432–33.

²²³ 471 F. Supp. 985 (D. Haw. 1979), *aff’d on other grounds*, 639 F.2d 495 (9th Cir. 1981), *aff’d*, 852 F.2d 1106 (9th Cir. 1988).

²²⁴ *Id.* at 995.

²²⁵ *Id.* at 989.

²²⁶ *Id.* at 988–90; see *Native Fish and Wildlife Endangered Species*, 32 Fed. Reg. 4001, 4001 (Mar. 11, 1967).

herds from the Palila's critical habit.²²⁷ Because Palila are only found in Hawaii and because no federal lands or funds were involved, Hawaii argued that the state retained exclusive sovereignty over the Palila's fate under the Tenth Amendment.²²⁸ The United States District Court for the District of Hawaii held that the Tenth Amendment does not constrain enforcement of the ESA given Congress's power "to enact legislation implementing valid treaties and . . . to regulate commerce."²²⁹ It explained:

[A] national program to protect and improve the natural habitats of endangered species preserves the possibilities of interstate commerce in these species and of interstate movement of persons . . . who come to a state to observe and study these species, that would otherwise be lost by state inaction.²³⁰

In *Gibbs v. Babbitt*,²³¹ individuals and several North Carolina counties challenged a FWS regulation prohibiting the taking of red wolves on private property as an infringement on traditional state power over wildlife.²³² The United States Court of Appeals for the Fourth Circuit found that the regulated activity did "not involve an 'area of traditional state concern,' one to which 'States lay claim by right of history and expertise.'"²³³ It reasoned that, while "States have important interests in regulating wildlife and natural resources within their borders," state power over wildlife has long been circumscribed by federal regulatory power.²³⁴ The *Gibbs* court explained that the regulated activity—the taking of wolves—"is not an area in which the states may assert an exclusive and traditional prerogative in derogation of an enumerated federal power," i.e., the Commerce Clause.²³⁵ The court also took note of "the historic power of the federal government to preserve scarce resources in one locality for the future benefit of all Americans."²³⁶

The Tenth Circuit had the opportunity to consider similar Tenth Amendment arguments in *Wyoming v. United States*, where the State of Wyoming tried to compel FWS to allow it to vaccinate elk against brucellosis at the Jackson Hole National Elk Refuge (NER).²³⁷ In response to Wyoming's

²²⁷ *Palila*, 471 F. Supp. at 987.

²²⁸ *Id.* at 992.

²²⁹ *See id.* at 995.

²³⁰ *Id.* For a detailed discussion of the Commerce Clause and the ESA, see *infra* Part III.A.3.c.

²³¹ 214 F.3d 483 (4th Cir. 2000).

²³² *Id.* at 499; see 50 C.F.R. § 17.84(c)(2) (2016).

²³³ *Gibbs*, 214 F.3d at 486 (citing *United States v. Lopez*, 514 U.S. 549, 580, 583 (1995) (Kennedy, J., concurring)); see also *id.* at 501 ("[T]he federal government possesses a historic interest in such regulation—an interest that has repeatedly been recognized by the federal courts.").

²³⁴ *Id.* at 499 (quoting *Minnesota v. Mille Lacs Band of Chippewa Indians*, 526 U.S. 172, 204 (1999)); see also *id.* at 501 ("[I]t is clear from our laws and precedent that federal regulation of endangered wildlife does not trench impermissibly upon state powers.").

²³⁵ *Id.* at 499.

²³⁶ *Id.* at 492. The portion of the court's opinion rejecting the Commerce Clause challenge is discussed below. See *infra* note 264 and accompanying text.

²³⁷ *Wyoming*, 279 F.3d 1214, 1218, 1222 (10th Cir. 2002).

argument that the Tenth Amendment reserved the sovereign authority to manage wildlife to the states, the court explained that, while states have historically had broad authority to regulate the wildlife within their borders, that authority is not constitutionally derived.²³⁸ Moreover, given the strength and breadth of the federal Property Clause power, the court found it “painfully apparent that the Tenth Amendment does not reserve to the State of Wyoming the right to manage wildlife, or more specifically vaccinate elk, on the NER, regardless of the circumstances.”²³⁹

Subsequently, in *Wyoming v. U.S. Department of the Interior*,²⁴⁰ the State of Wyoming argued that federal regulation of wolves violated the Anti-Commandeering Doctrine.²⁴¹ Wyoming objected to having only two choices: 1) to change state law to eliminate its predator classification for wolves and commit to maintaining at least fifteen packs of wolves, or 2) to endure the restrictions imposed by the continued protection of wolves under the ESA.²⁴² The court held that Wyoming had failed to show a violation of the Tenth Amendment through commandeering or otherwise.²⁴³ It explained: “Wyoming is under no mandate to regulate gray wolves. . . . If Wyoming chooses to ignore the [federal requirement], the State simply will find itself perpetually pre-empted from regulating the gray wolf.”²⁴⁴

In sum, except for those rare instances when the Anti-Commandeering Doctrine is successfully invoked, attempts to use the Tenth Amendment as a basis for state sovereignty over federally protected wildlife have generally failed, from *Missouri v. Holland* to present.

c. The Commerce Clause and Federal Wildlife Management

The federal courts did not immediately support federal wildlife control based on the Commerce Clause. In an early case, *Geer v. Connecticut*, the Supreme Court held that game killed within the state concerned internal state commerce rather than interstate commerce.²⁴⁵ In subsequent years, several district court opinions followed suit.²⁴⁶

²³⁸ *Id.* at 1226–27 (citing 43 C.F.R. § 24.3 (2016)).

²³⁹ *Id.* at 1227.

²⁴⁰ 360 F. Supp. 2d 1214 (D. Wyo. 2005), *aff'd*, 442 F.3d 1262 (10th Cir. 2006).

²⁴¹ *Id.* at 1238.

²⁴² *Id.* at 1240.

²⁴³ *Id.* at 1240, 1244.

²⁴⁴ *Id.* at 1240–41. *But see* N.M. Dep’t of Game & Fish v. U.S. Dep’t of the Interior, No. CV 16-00462 WJ/KBM, 2016 WL 4536465, at *9 (D.N.M. June 10, 2016) (distinguishing *Wyoming* and noting that FWS’s own regulation required FWS to release wolves in compliance with state permit requirements), *rev’d*, 854 F.3d 1236 (10th Cir. 2017).

²⁴⁵ *Geer*, 161 U.S. 519, 534–35 (1896), *overruled by Hughes*, 441 U.S. 322 (1979).

²⁴⁶ *See, e.g.*, *United States v. McCullagh*, 221 F. 288, 292 (D. Kan. 1915) (“The power of the states, by their laws in the protection of their trust title for the common good of all the inhabitants of the state, to exclude wild bird and animal life lawfully reduced to the exclusive possession of the individual from the operation of the commerce clause of the national Constitution, as was held in *Geer* . . . , has been uniformly maintained by the courts of this country.”); *Shauver*, 214 F. 154, 160 (E.D. Ark. 1914) (following *Geer* and setting aside an

With the New Deal, however, the federal government's use of the Commerce Clause power began to expand.²⁴⁷ By the 1970s, it was clear that *Geer* had lost favor. In *Douglas v. Seacoast Products, Inc.*,²⁴⁸ the Supreme Court struck down a Virginia statute prohibiting federally licensed vessels owned by nonresidents of Virginia from fishing in Chesapeake Bay, and also prohibiting ships owned by noncitizens to catch fish anywhere in Virginia.²⁴⁹ The Court stated:

While [Virginia] may be correct in arguing that at earlier times in our history there was some doubt whether Congress had power under the Commerce Clause to regulate the taking of fish in state waters, there can be no question today that such power exists where there is some effect on interstate commerce.²⁵⁰

It concluded that the movement of fishing boats within and between states and to processing plants "certainly" affects interstate commerce.²⁵¹

The following year, in *Baldwin v. Fish & Game Commission of Montana*,²⁵² a Montana hunting guide sued the State of Montana for discriminating against out of state hunters in the price it charged for elk tags. The Supreme Court observed that, in recent years,

[t]he Court has recognized that the States' interest in regulating and controlling those things they claim to "own," including wildlife, is by no means absolute. States may not compel the confinement of the benefits of their resources, even their wildlife, to their own people whenever such hoarding and confinement impedes interstate commerce.²⁵³

With this backdrop, it was not surprising when the Supreme Court expressly overruled *Geer* in 1979 in *Hughes v. Oklahoma*.²⁵⁴ In that case, Hughes challenged his conviction for unlawfully transporting minnows that had been procured within Oklahoma waters for sale outside the state.²⁵⁵ The Court held that the state law, which forbade the out-of-state sale of

indictment for violation of a federal migratory bird protection act). Note, however, that the courts upheld Congress's use of the Commerce Clause to regulate interstate trafficking of state-protected wildlife under the Lacey Act, 16 U.S.C. § 701 (2012). *See, e.g.*, *Rupert v. United States*, 181 F. 87, 91 (8th Cir. 1910) (upholding the Lacey Act as a valid exercise of the commerce power).

²⁴⁷ *See, e.g.*, *Wickard v. Filburn*, 317 U.S. 111, 128–29 (1942) (upholding federal Commerce Clause power over wheat grown for home consumption because of its aggregated effects on wheat sold in interstate commerce). For a more recent case with similar reasoning, see *Gonzales v. Raich*, 545 U.S. 1, 19 (2005) (holding that growing marijuana for personal use affects interstate commerce).

²⁴⁸ 431 U.S. 265 (1977).

²⁴⁹ *Id.* at 268–69, 284–85.

²⁵⁰ *Id.* at 281–82 (footnote omitted).

²⁵¹ *Id.* at 282.

²⁵² 436 U.S. 371 (1978).

²⁵³ *Id.* at 385–86.

²⁵⁴ *Hughes*, 441 U.S. 322, 326 (1979), *overruling Geer*, 161 U.S. 519 (1896).

²⁵⁵ *See id.* at 324–25.

commercially significant numbers of minnows, was “repugnant to the Commerce Clause.”²⁵⁶

The cases defining the scope of permissible state regulation in areas of congressional silence reflect an often controversial evolution of rules to accommodate federal and state interests. *Geer v. Connecticut* was decided relatively early in that evolutionary process. We hold that time has revealed the error of the early resolution reached in that case, and accordingly *Geer* is today overruled. . . . “The ‘ownership’ language of cases such as those cited by appellant must be understood as no more than a 19th-century legal fiction expressing ‘the importance to its people that a State have power to preserve and regulate the exploitation of an important resource.’”²⁵⁷

Although the Supreme Court began to establish limits on Congress’s use of the Commerce Clause in the 1990s, none of its opinions dilute the strength of *Hughes* or related wildlife precedents. In *United States v. Lopez*,²⁵⁸ the federal Gun-Free School Zones Act²⁵⁹ was struck down as “a criminal statute that by its terms has nothing to do with ‘commerce’ or any sort of economic enterprise, however broadly one might define those terms.”²⁶⁰ Similarly, in *United States v. Morrison*,²⁶¹ a provision of the Violence Against Women Act²⁶² was struck down because it attempted to regulate activities that did not substantially affect interstate commerce.²⁶³

The federal courts that have addressed wildlife-related issues since *Lopez* and *Morrison* have had no trouble finding federal Commerce Clause power. In the *Gibbs* case discussed above, the court emphasized the direct relationship between the removal of red wolves and negative effects to interstate commerce, finding no need to “pile inference upon inference” to reach that conclusion:

The taking of red wolves implicates a variety of commercial activities and is closely connected to several interstate markets. The regulation in question is also an integral part of the overall federal scheme to protect, preserve, and rehabilitate endangered species, thereby conserving valuable wildlife resources important to the welfare of our country.²⁶⁴

²⁵⁶ *Id.* at 338.

²⁵⁷ *Id.* at 326, 335 (footnote omitted) (quoting *Seacoast Products, Inc.*, 431 U.S. 265, 284 (1977)).

²⁵⁸ 514 U.S. 549 (1995).

²⁵⁹ Gun-Free School Zones Act of 1990, Pub. L. No. 101-647, 104 Stat. 4844.

²⁶⁰ *Lopez*, 514 U.S. at 561.

²⁶¹ 529 U.S. 598 (2000).

²⁶² Violence Against Women Act of 1994, Pub. L. No. 103-322, 108 Stat. 1902 (codified in scattered sections of 18 and 42 U.S.C.)

²⁶³ *Morrison*, 529 U.S. at 617. Summarizing, the Court noted that the Commerce Clause provides federal power over: 1) the channels of interstate commerce; 2) the instrumentalities of interstate commerce, or persons or things in interstate commerce; and 3) activities that, in the aggregate, have a substantial effect on interstate commerce. *Id.* at 609.

²⁶⁴ *Gibbs*, 214 F.3d 483, 492 (4th Cir. 2000).

Similarly, the United States Court of Appeals for the District of Columbia Circuit rejected a real estate developer's challenge to the application of the ESA to the arroyo toad, stating that the focus of the Commerce Clause inquiry must be on the regulated activity, not just the toad.²⁶⁵ When the regulated activity is commercial development, "both the 'actor,' a real estate company, and its 'conduct,' the construction of a housing development, have a plainly commercial character . . . [with] a plain and substantial effect on interstate commerce."²⁶⁶

It is now well settled that if the Commerce or Property Clauses are successfully invoked by the federal government as the authority to regulate wildlife, then by definition, inconsistent state law is preempted notwithstanding the Tenth Amendment.

4. Federal Preemption and Savings Clauses

The doctrine of federal preemption, derived from the Supremacy Clause of the U.S. Constitution, holds that state law must yield to federal law where the two conflict.²⁶⁷ This can happen expressly, for instance, under the Marine Mammal Protection Act where Congress stated: "No State may enforce . . . any State law or regulation related to the taking of any species . . . of marine mammal."²⁶⁸ Preemption can also be implied. The Supreme Court, in *California Coastal Commission v. Granite Rock Co.*,²⁶⁹ defined the concept of implied preemption:

If Congress evidences intent to occupy a given field, any state law falling within that field is pre-empted. If Congress has not entirely displaced state regulation over the matter in question, state law is still pre-empted to the extent it actually conflicts with federal law, that is, when it is impossible to comply with both state and federal law, or where the state law stands as an obstacle to the accomplishment of the full purposes and objectives of Congress.²⁷⁰

Therefore, preemption can occur where Congress expressly preempts state law, where Congress occupies a field of law, or where state law interferes

²⁶⁵ *Rancho Viejo, LLC v. Norton*, 323 F.3d 1062, 1064, 1072 (D.C. Cir. 2003).

²⁶⁶ *Id.* at 1072–73 (quoting *Nat'l Ass'n of Home Builders v. Babbitt*, 130 F.3d 1041, 1059 (D.C. Cir. 1997)).

²⁶⁷ *See* U.S. CONST. art. VI, cl. 2 ("This Constitution, and the Laws of the United States which shall be made in Pursuance thereof; and all Treaties made, or which shall be made, under the Authority of the United States, shall be the supreme Law of the Land."); *Kleppe*, 426 U.S. 529, 543 (1976) (stating that "federal legislation necessarily overrides conflicting state laws under the Supremacy Clause"); *Wyoming*, 279 F.3d 1214, 1227 (10th Cir. 2002) ("If Congress so chooses, federal legislation, together with the policies and objectives encompassed therein, necessarily override and preempt conflicting state laws, policies, and objectives . . .").

²⁶⁸ 16 U.S.C. § 1379(a) (2012).

²⁶⁹ 480 U.S. 572 (1987).

²⁷⁰ *Id.* at 581 (citations omitted). The Court found that a state mining permit requirement was not preempted because the federal land use and state environmental regulations in question could be interpreted to avoid conflict. *Id.* at 594.

with the implementation of federal law.²⁷¹ Federal regulations have the same preemptive effect.²⁷²

Federal law occupies a field of law (also known as field preemption) where a federal statutory scheme is interpreted to be “so pervasive as to make reasonable the inference that Congress left no room for the States to supplement it.”²⁷³ Because federal land management and wildlife laws often contain savings clauses acknowledging some level of state authority, field preemption rarely applies in these areas.²⁷⁴ Conflict preemption, on the other hand, arises whenever “compliance with both federal and state regulations is a physical impossibility.”²⁷⁵ Conflict preemption is also invoked where state law “stands as an obstacle to the accomplishment and execution of the full purposes and objectives of Congress.”²⁷⁶ The conflict between federal and state laws may be subtle and yet still trigger preemption, as where state law discourages conduct that federal law attempts to encourage, or vice versa.²⁷⁷ For example, in *National Audubon Society, Inc. v. Davis*,²⁷⁸ California law banned the use of all leg-hold traps, even by federal officials in the course of their duties.²⁷⁹ The Ninth Circuit found that, by eliminating a method of predator control, the ban conflicted with the purposes of the ESA by preventing agencies from protecting listed species.²⁸⁰ Therefore, the state’s action prevented the federal law from receiving full effect and was preempted.²⁸¹

Congress may negate or otherwise temper preemption by including a “savings clause” in its legislation. Many federal public health, environmental,

²⁷¹ *Id.* at 581; *Nat’l Audubon Soc’y*, 307 F.3d 835, 851 (9th Cir.), *amended on denial of reh’g*, 312 F.3d 416, 418 (9th Cir. 2002).

²⁷² *Granite Rock Co.*, 480 U.S. at 579–81, 591; *see Hillsborough County v. Automated Med. Labs., Inc.*, 471 U.S. 707, 713 (1985) (“We have held repeatedly that state laws can be pre-empted by federal regulations as well as by federal statutes.”).

²⁷³ *Gade v. Nat’l Solid Wastes Mgmt. Ass’n*, 505 U.S. 88, 98, 108–09 (1992) (quoting *Rice v. Santa Fe Elevator Corp.*, 331 U.S. 218, 230 (1947)) (holding that state occupational health and safety regulations were preempted by Occupations Safety and Health Administration, which occupied that field of law).

²⁷⁴ *See generally* Fischman & King, *supra* note 108 (analyzing savings clauses, their uses and trends, and how they incorporate state cooperation).

²⁷⁵ *Fla. Lime & Avocado Growers, Inc. v. Paul*, 373 U.S. 132, 142–43 (1963). For a full treatment of this issue, *see* Julie Lurman & Sanford P. Rabinowitch, *Preemption of State Wildlife Law in Alaska: Where, When, and Why*, 24 ALASKA L. REV. 145 (2007), and Julie Lurman Joly, *National Wildlife Refuges and Intensive Management in Alaska: Another Case for Preemption*, 27 ALASKA L. REV. 27 (2010).

²⁷⁶ *Hines v. Davidowitz*, 312 U.S. 52, 67 (1941).

²⁷⁷ Lurman & Rabinowitch, *supra* note 275, at 161.

²⁷⁸ 307 F.3d 835 (9th Cir. 2002), *amended on denial of reh’g*, 312 F.3d 416, 418 (9th Cir. 2002).

²⁷⁹ *Id.* at 852.

²⁸⁰ *Id.* The court also found that the state’s action was preempted by the National Wildlife Refuge Systems Improvement Act because it conflicted with FWS’s management authority within national refuges. *Id.* at 854.

²⁸¹ *Id.* at 852; *see also* *North Dakota v. United States*, 460 U.S. 300, 318 (1983) (stating state statutes that are “plainly hostile to the interests of the United States” will not be applied); *Gibbons v. Ogden*, 22 U.S. (9 Wheat.) 1, 211 (1824) (“[T]he act of Congress . . . is supreme; and the law of the State, though enacted in the exercise of powers not controverted, must yield to it.”).

and natural resources statutes include savings clauses intended to leave room for state law to provide increased protection consistent with congressional purposes and objectives.²⁸² In public lands and natural resources statutes, Congress has embraced the principle of cooperative federalism through a variety of savings clauses that disclaim an intention to displace state law related to wildlife, water, and other resources, so long as state law does not conflict with or undermine federal prerogatives.²⁸³ These statutory disclaimers are often quite vague, having been included as compromise measures to ensure passage of a piece of legislation.²⁸⁴ As Robert Fischman notes:

Judicial interpretation of a savings clause may elevate or undermine the importance of state interests in federal natural resources programs. Largely, it is the interpretive approach used by a court that determines whether an ambiguous savings clause will compel special consideration not otherwise required under federal law.²⁸⁵

Fischman adds that, “[a]lthough the judiciary places the interpretive fulcrum establishing how much leverage states can expect in federal decision-making, administrative policies have and will play the dominant role in shaping cooperative federalism.”²⁸⁶ Other sections of this Article analyze the specific language, agency implementation, and judicial review of savings clauses related to wildlife management on federal lands.

In conclusion, states undoubtedly have well-established historical responsibility over the wildlife within their borders. However, as this Subpart demonstrates, that responsibility is not exclusive, nor dominant, nor constitutionally derived. The U.S. Constitution grants the federal government the authority to manage its own lands and resources, fulfill its treaty obligations, and control interstate commerce, even in the face of objections from the states. And while the Tenth Amendment prevents the federal government from forcing state governments to carry out federal regulatory schemes, it cannot prevent the federal government from implementing those schemes itself.

B. Federal Land Laws and Regulations

This Subpart reviews the laws and regulations of most relevance to wildlife management on federal lands. It begins by explaining how the ESA fundamentally alters the management of all federal land systems. Next, it

²⁸² Fischman & King, *supra* note 108, at 145.

²⁸³ *Id.* at 129–30. Congress has also peppered the organic acts of the federal land management agencies with various directives to cooperate with states in planning and other processes. *Id.* See generally Robert L. Fischman, *Cooperative Federalism and Natural Resources Law*, 14 N.Y.U. ENVTL. L.J. 179 (2005) (discussing cooperation between state and the federal government in the application of natural resource management).

²⁸⁴ Fischman & King, *supra* note 108, at 159–60.

²⁸⁵ *Id.* at 168.

²⁸⁶ *Id.*

reviews the laws and regulations governing wildlife management in the National Park and National Wildlife Refuge Systems. This is followed by a review of the more contentious management and planning frameworks of USFS and BLM. A concise overview of the special case of Alaska is then provided. The Subpart closes by reviewing wildlife management and the National Wilderness Preservation System.

In Part IV, we return to many of the laws, regulations, and policies introduced here to dispel some of the common myths surrounding wildlife management on federal lands and to explain why federal land agencies have an obligation, and not just the discretion, to manage and conserve fish and wildlife on federal lands. The background provided here also shows that multiple opportunities for intergovernmental cooperation already exist within federal decision-making processes, but Part IV.F explains that they are not generally used to their full potential.

1. The Endangered Species Act

Congress passed the ESA in 1973 “to provide a program for the conservation of . . . endangered species and threatened species” and “to provide a means whereby the ecosystems upon which endangered . . . and threatened species depend may be conserved.”²⁸⁷ The ESA establishes an affirmative obligation for the federal government to use “all methods and procedures which are necessary to bring any [listed] species to the point at which the measures provided in this [Act] are no longer necessary,”²⁸⁸ and states that “all federal departments and agencies shall seek to conserve endangered . . . and threatened species.”²⁸⁹ In defining “conserve” and “conservation,” the ESA establishes an affirmative obligation to use “all methods and procedures which are necessary to bring any endangered . . . or threatened species to the point at which the measures provided” by the statute are no longer necessary.²⁹⁰

A secondary indicator as to the goals of the statute can be found in Congress’s explicit recognition of the “esthetic, ecological, educational, historical, recreational, and scientific value” of rare species.²⁹¹ As Freyfogle and Goble have argued, this list of recognized values suggests that the statute is intended to do more than preserve a remnant population in a zoo or at easily visited locations, though this might meet the needs for the esthetic and recreational values.²⁹² Instead, in order to preserve their ecological and scientific values, species and their habitats must be preserved in many natural locations, potentially including areas where they have been extirpated.²⁹³

²⁸⁷ ESA, 16 U.S.C. § 1531(b) (2012).

²⁸⁸ *Id.* § 1532(3). The goal of the statute is not to “list” species but to recover their populations so that they can be “delisted.”

²⁸⁹ *Id.* § 1531(c).

²⁹⁰ *Id.* § 1532(3).

²⁹¹ *Id.* § 1531(a)(3).

²⁹² ERIC T. FREYFOGLE & DALE D. GOBLE, *WILDLIFE LAW: A PRIMER* 233–34 (1st ed. 2009).

²⁹³ *Id.*

To understand the role of the ESA in federal land and wildlife management, three central pieces of the statute are most relevant: 1) the listing determination,²⁹⁴ 2) the obligation for federal agencies to conserve species and to avoid jeopardizing the continued existence of the listed species or destroying critical habitat,²⁹⁵ and 3) the take prohibition.²⁹⁶ These sections of the statute detail the government's responsibilities and sources of authority. In addition, several provisions of the ESA address federal-state relations with respect to the conservation and management of listed species.²⁹⁷ Each of the relevant sections is addressed below.

a. Listing Determinations (Section 4)

Only those species listed as threatened or endangered are protected by the ESA.²⁹⁸ Listing a species as threatened or endangered is often the result of a citizen petition requesting the listing, though listings may also stem from direct agency initiative (either FWS or, for anadromous and ocean species, the National Marine Fisheries Service (NMFS)).²⁹⁹ In either case, the species must meet the definition of either "threatened" or "endangered" in order to secure the protections provided under the statute.³⁰⁰ An "endangered" species is one that is "in danger of extinction throughout all or a significant portion of its range," and "threatened" species are "likely to become an endangered species within the foreseeable future."³⁰¹

The decision to list a species as either threatened or endangered must be made "solely on the basis of the best scientific and commercial data available."³⁰² The data hurdles that must be surmounted are formidable, and even if met, the agency may decide that the listing is "warranted but precluded" by other more urgent species' needs given the agency's historically tight funding.³⁰³ However, once species are listed they are entitled to the full protections of the statute regardless of the economic consequences.³⁰⁴

Section 4 includes a number of factors to be considered in the listing decision. One inquiry is to assess "the inadequacy of existing regulatory

²⁹⁴ 16 U.S.C. § 1533.

²⁹⁵ *Id.* § 1536(a).

²⁹⁶ *Id.* § 1538.

²⁹⁷ *See, e.g., id.* § 1535 (cooperation with states); *id.* § 1533(b)(1) (listing criteria); *id.* § 1539(a)(2)(B) (incidental take permits).

²⁹⁸ *See id.* § 1533(d).

²⁹⁹ *Id.* § 1533(b)(3)(A); *see* FREYFOGLE & GOBLE, *supra* note 292, at 236; *Endangered Species Act: Overview*, U.S. FISH & WILDLIFE SERV., <https://perma.cc/CTB5-GTZ5> (last updated Nov. 1, 2017).

³⁰⁰ 16 U.S.C. § 1533(d).

³⁰¹ *Id.* § 1532(6), (20).

³⁰² *Id.* § 1533(b)(1)(A).

³⁰³ FREYFOGLE & GOBLE, *supra* note 292, at 248–49. These "candidate species" receive no protection under the ESA, but the candidate status may provide an opportunity and an incentive for state and private action to prevent listing. *Id.*

³⁰⁴ *See* *Tenn. Valley Auth. v. Hill*, 437 U.S. 153, 174 (1978).

mechanisms.”³⁰⁵ This means that state laws and regulations pertaining to wildlife, or the lack thereof, are assessed when making listing determinations. Another factor is particularly relevant when it comes to state involvement in ESA implementation: “[conservation] efforts, if any, being made by any State.”³⁰⁶ Accordingly, state efforts to conserve a species may be deemed to offset other threats, such as habitat destruction, and effectively bring the species below the threshold necessary to warrant a federal listing.³⁰⁷ FWS’s Policy for Evaluation of Conservation Efforts When Making Listing Decisions (PECE) allows FWS to consider conservation efforts that have not yet been implemented so long as FWS evaluates the certainty with which the efforts will be implemented and effective.³⁰⁸ However, courts have found that speculative future plans and voluntary conservation efforts will not suffice to avoid listing.³⁰⁹

³⁰⁵ 16 U.S.C. § 1533(a)(1)(D).

³⁰⁶ *Id.* § 1533(b)(1)(A).

³⁰⁷ Policy for Evaluation of Conservation Efforts When Making Listing Decisions, 68 Fed. Reg. 15,100, 15,113 (Mar. 28, 2003) (to be codified at 50 C.F.R. ch. 4); *see also* Kevin Cassidy, *Endangered Species’ Slippery Slope Back to the States: Existing Regulatory Mechanisms and Ongoing Conservation Efforts Under the Endangered Species Act*, 32 ENVTL. L. 175, 178–79 (2002) (discussing instances where state and local conservation efforts were invoked to avoid listing).

³⁰⁸ Policy for Evaluation of Conservation Efforts When Making Listing Decisions, 68 Fed. Reg. at 15,114 (requiring a “high level of certainty that the effort will be implemented and/or effective”); *see also* Permian Basin Petroleum Ass’n v. Dep’t of the Interior, 127 F. Supp. 3d 700, 712 (W.D. Tex. 2015) (invalidating FWS’s decision to list the lesser prairie chicken as inconsistent with PECE), *appeal dismissed*, No. 16-50453 (5th Cir. 2016).

³⁰⁹ *See, e.g.*, Alaska v. Lubchenco, 825 F. Supp. 2d 209, 219–20 (D.D.C. 2011) (rejecting Alaska’s claim that NMFS failed to consider the state’s conservation efforts before listing the beluga whale and concluding that “it is not enough for the State to identify conservation efforts that *may* be beneficial to a species’ preservation”; instead, “the efforts must actually be in place and have achieved some measure of success in order to count”); *Defs. of Wildlife v. Norton*, 258 F.3d 1136, 1146 (9th Cir. 2001) (rejecting FWS’s reliance on a Conservation Agreement (CA) to justify withdrawing a proposed listing because, in several areas designated as management areas for the species, “the designation process was either incomplete or wholly unstarted” and “[n]owhere d[id] the Secretary account for the effects of failure to implement the CA immediately in those areas where delay was expected”); *see also* Or. Nat. Res. Council v. Daley, 6 F. Supp. 2d 1139, 1154–55 (D. Or. 1998) (“NMFS may only consider conservation efforts that are currently operational”; NMFS cannot rely on voluntary measures to preclude listing because “like those planned in the future, [they] are necessarily speculative.”); *Sw. Ctr. for Biological Diversity v. Babbitt*, 939 F. Supp. 49, 51 (D.D.C. 1996) (“[FWS] cannot use promises of proposed future actions as an excuse for not making a determination based on the existing record.”). *But see* *Defs. of Wildlife v. Zinke*, 849 F.3d 1077, 1084 (D.C. Cir. 2017) (holding that FWS properly relied on future implementation of a wolf management plan by the State of Wyoming because the plan was not speculative but rather was “sufficiently certain to be implemented based on the strength of the State’s incentives”); *Defs. of Wildlife v. Jewell*, 70 F. Supp. 3d 183, 197–98 (D.D.C. 2014) (holding that FWS may consider state programs that are not yet fully implemented, as “implementation and effectiveness are often assessed in relative rather than absolute terms; when faced with regulatory uncertainty and risk to certain species, the Service can still chart a course of action, provided it assesses and controls for that uncertainty and risk”), *aff’d*, 815 F.3d 1 (D.C. Cir. 2016).

b. Federal Obligations (Section 7)

i. Affirmative Duty to Conserve (Section 7(a)(1))

The ESA states that the Departments of Interior and Commerce must utilize all of their programs to promote the statute's goals.³¹⁰ The ESA also mandates that *all* federal agencies utilize their authority in the furtherance of the purposes of the ESA.³¹¹ There are few reported cases directly on point, but at least a handful of courts have found that section 7(a)(1) has substantive "teeth."³¹² In *Defenders of Wildlife v. Andrus*, the advocacy group argued that regulations for bird hunting at twilight failed to protect listed species against misidentification by hunters.³¹³ The United States District Court for the District of Columbia, interpreting this section of the statute, found that the ESA requires that the agency "do far more than merely avoid the elimination of protected species," rather there is "an affirmative duty to increase the population of protected species."³¹⁴

The court came to a similar decision in *Carson-Truckee Water Conservancy District v. Watt*.³¹⁵ The cities of Reno and Sparks, Nevada challenged the Department of the Interior's refusal to release greater quantities of water from the Stampede Dam and Reservoir.³¹⁶ The Department of the Interior cited section 7(a)(1) to support its position that the water levels in the reservoir must be maintained at higher levels in order to preserve the spawning ability of two endangered fish (the cui-ui and the Lahotan cutthroat trout).³¹⁷ Ultimately, the court agreed with the federal government's argument that it had a duty "to replenish the species so that they are no longer endangered or threatened with extinction," rather than merely avoiding jeopardy.³¹⁸

By contrast, several courts have refused to mandate the implementation of specific conservation measures, instead finding that the federal agencies

³¹⁰ 16 U.S.C. § 1536(a)(1). For convenience, we reference FWS throughout this Article, but similar duties are imposed upon NMFS, an agency within the Department of Commerce.

³¹¹ *Id.*

³¹² *See* *Def. of Wildlife v. Andrus*, 428 F. Supp. 167, 169–70 (D.D.C. 1977) (holding that the ESA clearly implied that FWS must "use all methods necessary" to boost species populations for their removal from the protective class); *see also Tenn. Valley Auth.*, 437 U.S. 153, 173 (1978) ("One would be hard pressed to find a statutory provision whose terms were any plainer than those in § 7 of the [ESA]. Its very words affirmatively command all federal agencies 'to insure that actions authorized, funded, or carried about by them do not jeopardize the continued existence' of an endangered species or 'result in the destruction or modification of habitat of such species.'" (quoting 16 U.S.C. § 1536)).

³¹³ *Andrus*, 428 F. Supp. at 169.

³¹⁴ *Id.* at 170.

³¹⁵ 549 F. Supp. 704, 710 (D. Nev. 1982), *aff'd sub nom.*, *Carson-Truckee Water Conservancy Dist. v. Clark*, 741 F.2d 257, 262 (9th Cir. 1984).

³¹⁶ *Clark*, 741 F.2d at 259; *Watt*, 537 F. Supp. at 107–08.

³¹⁷ *Clark*, 741 F.2d at 259, 261–62.

³¹⁸ *Watt*, 549 F. Supp. at 708–10; *see also Sierra Club v. Glickman*, 156 F.3d 606, 618 (5th Cir. 1998) (finding that section 7(a)(1) required the United States Department of Agriculture to develop its own conservation program for listed species dependent on the Edwards aquifer).

have a great deal of discretion in the steps that they take to satisfy section 7(a)(1).³¹⁹ For example, in *Defenders of Wildlife v. U.S. Fish & Wildlife*,³²⁰ the court rejected arguments that USFS should develop and implement its own conservation program for the endangered Mexican wolf and deferred to the agency's decision to act in cooperation with FWS's recommendations in furtherance of previously established wolf reintroduction and recovery goals.³²¹ Similarly, in *Defenders of Wildlife v. Babbitt*,³²² the court held that the federal agencies had not violated section 7(a)(1), even though they had not implemented all possible measures for conservation of the endangered Sonoran pronghorn, absent a showing that the agencies had failed entirely to carry out conservation programs.³²³

To summarize, FWS and other federal agencies are obligated to prevent jeopardy and authorized to proactively improve the circumstances of listed species. Additionally, while the ESA creates a duty to increase populations of protected species, it appears that courts are often unwilling to require the implementation of specific conservation measures.

ii. Prohibition Against Jeopardy (Section 7(a)(2))

Federal agencies must also ensure that their actions are “not likely to jeopardize the continued existence” of listed species.³²⁴ In *Tennessee Valley Authority v. Hill*,³²⁵ the Supreme Court established that, instead of balancing interests between wildlife conservation and economic development, the ESA demands that species conservation be elevated above other concerns, which could include state interests in wildlife.³²⁶

In order to ensure that federal actions do not jeopardize listed species, federal agencies undertaking actions that could harm species must formally consult with FWS.³²⁷ For purposes of section 7, “federal actions” include projects that are funded, authorized, or constructed directly by any federal agency, and projects with discretionary involvement or control by any

³¹⁹ See, e.g., *Leatherback Sea Turtle v. Nat'l Marine Fisheries Serv.*, No. 99–00152 DAE, 1999 WL 33594329, at *13–14 (D. Haw. Oct. 18, 1999) (finding that NMFS satisfied its section 7(a)(1) duty by issuing conservation recommendations and biological opinions); *Coal. for Sustainable Res., Inc. v. U.S. Forest Serv.*, 48 F. Supp. 2d 1303, 1306, 1315–16 (D. Wyo. 1999) (rejecting plaintiff's argument that USFS should implement certain timber harvest and snow management programs for the benefit of listed species), *vacated for lack of ripeness*, 259 F.3d 1244 (10th Cir. 2001).

³²⁰ 797 F. Supp. 2d 949 (D. Ariz. 2011).

³²¹ *Id.* at 958–59.

³²² 130 F. Supp. 2d 121 (D.D.C. 2001).

³²³ *Id.* at 135; see also *Pyramid Lake Paiute Tribe of Indians v. U.S. Dep't of the Navy*, 898 F.2d 1410, 1417–19 (9th Cir. 1990) (holding that section 7(a)(1) did not require the Navy to adopt the “least burdensome alternative” to ensure the conservation of listed species; rather, the Navy retained discretion in meeting the ESA's conservation mandate).

³²⁴ ESA, 16 U.S.C. § 1536(a)(2) (2012).

³²⁵ 437 U.S. 153 (1978).

³²⁶ See *id.* at 184 (noting “[t]he plain intent of Congress in enacting [the ESA] was to halt and reverse the trend toward species extinction, whatever the cost”).

³²⁷ 16 U.S.C. § 1536(a)(4).

federal agency.³²⁸ If a listed species may be present within the project area, the federal “action agency” must conduct a biological assessment (BA) to identify any such species likely to be affected by the federal action and evaluate the effects.³²⁹ In turn, through its biological opinion (BiOp), FWS must determine whether the potential harm to the species violates section 7(a)(2) and, if so, devise less harmful alternatives or mitigation measures.³³⁰

FWS has interpreted the phrase “jeopardize the continued existence of a species” as any action “that reasonably would be expected, directly or indirectly, to reduce appreciably the likelihood of both the survival and recovery of a listed species in the wild.”³³¹ According to the Ninth Circuit in *National Wildlife Federation v. National Marine Fisheries Service*,³³² an action that may jeopardize a species can be of any magnitude, slight or severe, since the important factor is the degree of risk to the particular species.³³³ Furthermore, the court stated that jeopardy determinations must consider the action’s effect on species recovery, not simply species survival.³³⁴ Therefore, even actions that pose only slight dangers may “jeopardize” the species if the effect of that action poses a high degree of risk to the species.

*iii. Prohibition Against Adversely Modifying Critical Habitat
(Section 7(a)(2))*

At the time a species is listed as endangered or threatened, FWS must also designate its critical habitat.³³⁵ Critical habitat is an area where there are “physical or biological features . . . essential to the conservation of the species and . . . which may require special management considerations.”³³⁶ Critical habitat designation is based on “the best scientific data available and after taking into consideration the economic impact, the impact on national security, and any other relevant impact.”³³⁷ By directing FWS to consider economic impacts, the designation decision involves a much broader inquiry than is required for the listing determinations.

Section 7 prohibits federal agencies from taking actions that may “result in the destruction or adverse modification of [critical] habitat.”³³⁸ FWS regulations specify that:

³²⁸ *Id.* § 1536(a); 50 C.F.R. § 402.02 (2016); see *Sierra Club v. Bureau of Land Mgmt.*, 786 F.3d 1219, 1224–25 (9th Cir. 2015).

³²⁹ 16 U.S.C. § 1536(e).

³³⁰ *Id.* § 1536(b)(3).

³³¹ 50 C.F.R. § 402.02.

³³² 524 F.3d 917 (9th Cir. 2008).

³³³ See *id.* at 930.

³³⁴ *Id.* at 931.

³³⁵ 16 U.S.C. § 1533(a)(3)(A), (b)(6)(C).

³³⁶ *Id.* § 1532(5)(A)(i).

³³⁷ *Id.* § 1533(b)(2).

³³⁸ *Id.* § 1536(a)(2).

Destruction or adverse modification means a direct or indirect alteration that appreciably diminishes the value of critical habitat for [both the survival and recovery] of a listed species . . . includ[ing] . . . those that alter the physical or biological features essential to the conservation of a species or that preclude or significantly delay development of such features.³³⁹

In *Center for Native Ecosystems v. Cables*,³⁴⁰ the Tenth Circuit held that critical habitat is adversely modified by any actions “that adversely affect a species’ recovery and the ultimate goal of delisting.”³⁴¹ This interpretation makes the critical habitat protection a significant prohibition.

c. Take Prohibition (Section 9)

The ESA prohibits the “take” of listed species.³⁴² “Take” is defined by Congress as “to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect.”³⁴³ This broad protection has been further enlarged by the Supreme Court’s determination that “harm” in this definition includes habitat modification or degradation,³⁴⁴ though a showing that animals have actually been killed or injured may be required to prove that harm has occurred.³⁴⁵ A prohibited take can be either intentional (e.g., hunting and trapping) or unintentional (e.g., poisoning and other contamination).³⁴⁶ Unlike the requirements of section 7, section 9 applies to all persons, not just federal agencies.³⁴⁷

While the take prohibition is unqualified for endangered species, it is up to the agency to determine the breadth of its applicability for threatened species.³⁴⁸ FWS can make the prohibitions of section 9 applicable, either in whole or in part, to threatened species.³⁴⁹ However, FWS’s discretion in this area is not without limits. In *Sierra Club v. Clark*,³⁵⁰ the United States Court of Appeals for the Eighth Circuit struck down FWS regulations that permitted the hunting of threatened wolves because the ESA only empowers FWS to issue regulations for the “conservation” of species, and regulated taking is only permissible under “extraordinary” circumstances which were not present in that case.³⁵¹

³³⁹ 50 C.F.R. § 402.02 (2016) (emphasis omitted).

³⁴⁰ 509 F.3d 1310 (10th Cir. 2007).

³⁴¹ *Id.* at 1322.

³⁴² 16 U.S.C. § 1538(a)(1)(B)–(C).

³⁴³ *Id.* § 1532(19).

³⁴⁴ *Babbitt v. Sweet Home Chapter of Cmty. for a Great Or.*, 515 U.S. 687, 708 (1995) (citing 50 C.F.R. § 17.3).

³⁴⁵ *See id.* at 696 n.7; FREYFOGLE & GOBLE, *supra* note 292, at 266.

³⁴⁶ FREYFOGLE & GOBLE, *supra* note 292, at 236–37.

³⁴⁷ 16 U.S.C. § 1538(a)(1).

³⁴⁸ *Id.* § 1533(d).

³⁴⁹ *Id.*

³⁵⁰ 755 F.2d 608 (8th Cir. 1985).

³⁵¹ *Id.* at 610, 612–13; *see* 16 U.S.C. § 1532(3).

i. Incidental Take Statements and Incidental Take Permits (Section 7(a)(2) and Section 10)

Federal activities covered by a “no jeopardy” BO may be shielded from section 9 “take” liability if FWS has also issued an incidental take statement (ITS) that excuses the actor from liability when a covered species is incidentally taken during the course of an otherwise lawful activity.³⁵² While an ITS provides protection against federal prosecution, it also constitutes a binding agreement with FWS that may include limitations and other prohibitions for the shielded activity.³⁵³ In addition, section 10(a) allows “take” by nonfederal actors under prescribed conditions in exchange for a habitat conservation plan (HCP).³⁵⁴ To issue an incidental take permit (ITP) under section 10(a), FWS must find that:

- (i) the taking will be incidental;
- (ii) the applicant will, to the maximum extent practicable, minimize and mitigate the impacts of such taking;
- (iii) the applicant will ensure that adequate funding for the plan will be provided;
- (iv) the taking will not appreciably reduce the likelihood of the survival and recovery of the species in the wild; and
- (v) the measures, if any, [that the Secretary may require as being necessary or appropriate for purposes of the plan] will be met.³⁵⁵

In recent years, FWS has utilized its ability to issue ITPs more frequently, in part to alleviate the perceived harshness of the ESA’s prohibitions and in part to foster “creative partnerships between the private sector and all levels of government in the interests of protected species and habitat conservation.”³⁵⁶ For example, a court upheld an ITP that authorized the State of Utah, Cedar City, and the Paiute Tribe to trap prairie dogs that

³⁵² 16 U.S.C. § 1536(a)(2), (b)(4); see *Ramsey v. Kantor*, 96 F.3d 434, 446 (9th Cir. 1996) (holding that states did not violate the ESA when they issued fishing regulations allowing taking of listed salmon without obtaining a section 10 permit where NMFS issued a section 7 incidental take statement that clearly anticipated the states would promulgate fishing regulations in accordance with its terms).

³⁵³ See, e.g., 50 C.F.R. § 17.32(b)(2) (2016); see also *Endangered Species Permits: HCPs - Frequently Asked Questions*, U.S. FISH & WILDLIFE SERV., <https://perma.cc/Z3PV-WQFC> (last updated Apr. 14, 2015) (describing the binding legal obligations included in Habitat Conservation Plans that are usually required when a party obtains an incidental take permit).

³⁵⁴ 16 U.S.C. § 1539(a)(2)(A).

³⁵⁵ *Id.* § 1539(a)(2)(B).

³⁵⁶ Robert L. Fischman & Jaelith Hall-Rivera, *A Lesson for Conservation from Pollution Control Law: Cooperative Federalism for Recovery Under the Endangered Species Act*, 27 COLUM. J. ENVTL. L. 45, 69, 75–76 (2002).

were damaging private and tribal land, and relocate them to a parcel of land covered by a conservation easement surrounded by BLM lands.³⁵⁷

States have avoided liability for a “take” under both ITSs and ITPs, and both tools have the potential to be used to foster cooperation with states in the interest of species conservation. If either an ITS or an ITP is issued without adequate safeguards for the species, however, the ESA’s conservation objectives may be undermined.

d. Cooperation with States (Section 6)

The ESA carves out a role for the states to assist in achieving the ESA’s protective purposes by providing that, in carrying out the statute, FWS “shall cooperate to the maximum extent practicable with the States.”³⁵⁸ Through this provision, Congress recognized the expertise of state agencies and required FWS to solicit and consider relevant information from them, such as preparing proposed and final rules to designate critical habitat.³⁵⁹ In addition, the ESA empowers FWS to “enter into agreements with [states] for the administration and management of any area established for the conservation of [listed] species.”³⁶⁰ FWS may also enter into cooperative agreements with any state that establishes and maintains an “adequate and active” program for the conservation of listed species.³⁶¹ These programs are enacted statutorily and are referred to as “state endangered species acts.”³⁶²

In addition, the statutory savings clause states that the ESA should not be construed “to void any State law or regulation which is intended to conserve migratory, resident, or introduced fish or wildlife, or to permit or prohibit sale of such fish or wildlife.”³⁶³ However, states may not take measures to protect or enhance non-endangered resident wildlife if such measures would take or otherwise endanger listed species.³⁶⁴

FWS and NFMS also adopted an interagency policy to guide their work with the states in ESA implementation. The policy begins by recognizing that

³⁵⁷ *WildEarth Guardians v. U.S. Fish & Wildlife Serv.*, 622 F. Supp. 2d 1155, 1159, 1168 (D. Utah 2009).

³⁵⁸ 16 U.S.C. § 1535(a).

³⁵⁹ *See, e.g., Alaska Oil & Gas Ass’n v. Salazar*, 916 F. Supp. 2d 974, 997 (D. Alaska 2013) (discussing FWS and state’s various joint efforts and ultimately finding that FWS complied with § 1535(a) in designating polar bear critical habitat).

³⁶⁰ 16 U.S.C. § 1535(b).

³⁶¹ *Id.* § 1535(c)(1). For details, see COGGINS & GLICKSMAN, *supra* note 124, § 29:19.

³⁶² Deborah F. Buckman, Annotation, *Construction and Application of State Endangered Species Acts*, 44 A.L.R. 6th 325 (2009); *see* 16 U.S.C. § 1535.

³⁶³ 16 U.S.C. § 1535(f).

³⁶⁴ *See Nat’l Audubon Soc’y*, 307 F.3d 835, 853 (9th Cir.) (invalidating California’s prohibition on leghold traps), *amended on denial of reh’g*, 312 F.3d 416, 418 (9th Cir. 2002). *Cf. Animal Prot. Inst. v. Holsten*, 541 F. Supp. 2d 1073, 1080–81 (D. Minn. 2008) (finding that the savings clause did not shield a state hunting program from judicial invalidation or protect the state game agency from liability for violating the ESA’s taking clause); *United States v. Glenn-Colusa Irrigation Dist.*, 788 F. Supp. 1126, 1134 (E.D. Cal. 1992) (“[T]o the extent that [a state’s] law on taking is less protective than the [ESA], it is preempted.”).

“States possess broad trustee and police powers over fish, wildlife and plants and their habitats within their borders [and u]nless preempted by Federal authority, States possess primary authority and responsibility for protection and management of fish, wildlife and plants and their habitats.”³⁶⁵ The policy specifies ways in which the states can help carry out the purposes of the ESA, such as by taking prelisting conservation actions and utilizing state expertise and information in the ESA recovery process.³⁶⁶

Section 6 and the interagency policy provisions encourage cooperative federalism to effectuate the purposes of the ESA. Like many other federal environmental statutes, the ESA provides a floor, not a ceiling, for species protection.³⁶⁷ The ESA clearly preempts inconsistent or less restrictive state laws.³⁶⁸ And most state-level endangered species acts are relatively limited in comparison to the federal law, with most states having no mechanism for recovery, consultation, critical habitat, or citizen enforcement.³⁶⁹

2. The National Park System

a. The 1916 Organic Act

The National Park Service Organic Act³⁷⁰ makes conservation of park resources, including wildlife, a primary management goal:

[To] promote and regulate the use of the National Park System by means and measures that conform to the fundamental purpose . . . *to conserve the scenery, natural and historic objects, and wild life in the System units* and to provide for the enjoyment of the scenery, natural and historic objects, and wild life in such manner and by such means as will leave them *unimpaired* for the enjoyment of future generations.³⁷¹

Courts have construed this provision as a directive that, between the competing goals of conservation of park resources and facilitating public

³⁶⁵ Endangered and Threatened Wildlife and Plants: Notice of Interagency Cooperative Policy Regarding the Role of State Agencies in Endangered Species Act Activities, 59 Fed. Reg. 34,274, 34,725 (July 1, 1994).

³⁶⁶ *Id.*

³⁶⁷ 16 U.S.C. § 1535(c), (f); see Robert L. Fischman, *Predictions and Prescriptions for the Endangered Species Act*, 34 ENVTL. L. 451, 462 (2004).

³⁶⁸ 16 U.S.C. § 1535(f) (“Any State law or regulation respecting the taking of an endangered species or threatened species may be more restrictive than the exemptions or permits provided for in this chapter or in any regulation which implements this chapter but not less restrictive than the prohibitions so defined.”); see, e.g., *Nat’l Audubon Soc’y*, 307 F.3d at 851–53 (holding that California’s rule prohibiting use of leg-hold traps by federal employees was preempted by the ESA); *Swan View Coal, Inc. v. Turner*, 824 F. Supp. 923, 938 (D. Mont. 1992); *Glenn-Colusa Irrigation Dist.*, 788 F. Supp. at 1134.

³⁶⁹ Susan George & William J. Snape III, *State Endangered Species Acts*, in ENDANGERED SPECIES ACT: LAW, POLICY, AND PERSPECTIVES 345, 346 (Donald C. Baur & W.M. Robert Irvin eds., 2d ed. 2010) (concluding that “most acts lack all but the most basic elements of a legislative scheme to protect a state’s imperiled species”).

³⁷⁰ Ch. 408, 39 Stat. 535 (1916) (codified in scattered sections of 54 U.S.C.).

³⁷¹ 54 U.S.C. § 100101 (Supp. II 2015) (emphasis added).

enjoyment of park resources, conservation generally takes precedence.³⁷² Notably, the Organic Act's phrase authorizing management for the enjoyment of scenery, natural and historic objects, and wildlife is cabined by the admonition that enjoyment may only occur "in such manner and by such means as will leave them [i.e., park resources] unimpaired for the enjoyment of future generations."³⁷³ Absent an explicit contrary mandate in the relevant individual park establishment act, in the event of a conflict, NPS must prioritize conservation over public enjoyment.³⁷⁴

b. National Park Service Management Policy

NPS's own Management Policies recognize that conservation of park resources is "predominant."³⁷⁵ More specifically:

Congress, recognizing that the enjoyment by future generations of the national parks can be ensured only if the superb quality of park resources and values is left unimpaired, has provided that when there is a conflict between conserving resources and values and providing for enjoyment of them, conservation is to be predominant. This is how courts have consistently interpreted the Organic Act.³⁷⁶

Issues related to wildlife management come squarely within the purview of the conservation mandate. "Impairment" includes disruption of

³⁷² See, e.g., *Greater Yellowstone Coal. v. Kempthorne*, 577 F. Supp. 2d 183, 192–93 (D.D.C. 2008) (invalidating NPS's Winter Use Plan because it violated the conservation mandate by impairing Yellowstone's soundscape, wildlife, and air quality); *Fund for Animals v. Norton*, 512 F. Supp. 2d 49, 54–55 (D.D.C. 2007) (finding that NPS had articulated a satisfactory explanation regarding limited use of snowmobiles in Yellowstone); *Fund for Animals v. Norton*, 294 F. Supp. 2d 92, 108 (D.D.C. 2003) (overturning decision to allow snowmobiles in Yellowstone because NPS had not explained reversal of earlier conclusion that snowmobiles caused impairment); see also *Bicycle Trails of Marin v. Babbitt*, 82 F.3d 1445, 1453 (9th Cir. 1996) (noting the "overarching concern" of the Organic Act is "resource protection"); *Defs. of Wildlife v. Salazar*, 877 F. Supp. 2d 1271, 1306–07 (M.D. Fla. 2012) (remanding decision to increase off-road vehicle (ORV) use because of failure to explain change in position as to ORV's adverse impacts to wildlife, soil, and hydrology); *Bluewater Network v. Salazar*, 721 F. Supp. 2d 7, 24–38 (D.D.C. 2010) (remanding NPS's decision to allow jet skis in two national parks given the impacts to wildlife, water and air quality, soundscapes, aquatic vegetation, and visitor experience); *Edmonds Inst. v. Babbitt*, 42 F. Supp. 2d 1, 16 (D.D.C. 1999) (noting that the primary purpose of the Organic Act is "conservation of wildlife resources"); *Nat'l Rifle Ass'n of Am. v. Potter*, 628 F. Supp. 903, 909 (D.D.C. 1986) ("In the Organic Act, Congress speaks of but a single purpose, namely conservation.").

³⁷³ 54 U.S.C. § 100101(a).

³⁷⁴ Eric Biber & Elisabeth Long Esposito, *The National Park Service Organic Act and Climate Change*, 56 NAT. RESOURCES J. 193, 223–24 (2016). But see *Nat'l Parks Conservation Ass'n v. U.S. Dep't of Interior*, 46 F. Supp. 3d 1254, 1278, 1337 (M.D. Fla. 2014) (applying an establishment act that shuffles these priorities and finding that the establishment acts for Big Cypress Preserve and Addition Lands mandate multiple uses, including ORV use on designated trails), *aff'd*, 835 F.3d 1377 (11th Cir. 2016).

³⁷⁵ NAT'L PARK SERV., MANAGEMENT POLICIES 2006 § 1.4.3 (2006), <https://perma.cc/3R3K-EUP8> [hereinafter NPS MANAGEMENT POLICIES].

³⁷⁶ *Id.*

natural abundance, diversity, and ecological integrity, and is not limited to those impacts that “are so intense or sustained that they result in ‘the elimination of a native species or significant population declines in a native species.’”³⁷⁷

NPS’s Management Policies direct NPS to “maintain as parts of the natural ecosystems of parks all plants and animals native to park ecosystems.”³⁷⁸ Native species are “all species that have occurred, now occur, or may occur as a result of natural processes on lands designated as units of the national park system.”³⁷⁹ NPS commits itself to preserving, maintaining, and restoring both populations of species and their habitats, and to “minimizing human impacts on native plants, animals, populations, communities, and ecosystems, and the processes that sustain them.”³⁸⁰ In addition, the Management Policies state that NPS will cooperate and work with state and tribal governments, federal agencies, and other land managers to encourage the conservation of species populations and habitats “whenever possible.”³⁸¹ Although the Policies are not judicially enforceable, courts have not hesitated to find that deviations from the Policies are arbitrary and capricious.³⁸²

c. Hunting and Fishing

Courts have occasionally upheld NPS decisions that adversely impact wildlife, including decisions to cull deer and other wildlife from parks where the wildlife is undermining conservation goals by destroying vegetation or harming other species.³⁸³ As a general rule, however, hunting and other types of consumptive resource utilization within units of the National Park System are prohibited as contrary to the conservation ethic articulated in the

³⁷⁷ *Bluewater Network*, 721 F. Supp. 2d at 36 (rejecting NPS’s interpretation of impairment to allow mortality and other “regular” adverse effects to wildlife as a “draconian” definition that was inconsistent with the Organic Act).

³⁷⁸ NPS MANAGEMENT POLICIES, *supra* note 375, § 4.4.1.

³⁷⁹ *Id.* § 4.4.1.3.

³⁸⁰ *Id.* § 4.4.1.

³⁸¹ *Id.* § 4.4.1.1.

³⁸² *See, e.g., Bluewater Network*, 721 F. Supp. 2d at 20 n.13 (“While these Policies are not judicially enforceable, they are ‘relevant insofar as NPS puts forth the Policies as justification for the decision under review.’” (citations omitted)).

³⁸³ *See, e.g., Davis v. Latschar*, 202 F.3d 359, 359–60 (D.C. Cir. 2000) (upholding NPS plan to cull deer); *N.M. State Game Comm’n v. Udall*, 410 F.2d 1197, 1200–01 (10th Cir. 1969) (similar); *Grunewald v. Jarvis*, 930 F. Supp. 2d 73, 84–86 (D.D.C. 2013) (similar), *aff’d*, 776 F.3d 893 (D.C. Cir. 2015); *Friends of Animals v. Caldwell*, No. 2:09-cv-5349, 2010 WL 4259753, at *1, *7 (E.D. Pa. Oct. 27, 2010), *aff’d*, 434 F. App’x 72 (3d Cir. 2011) (similar); *see also WildEarth Guardians v. Nat’l Park Serv.*, 703 F.3d 1178, 1191–93 (10th Cir. 2013) (upholding NPS plan to cull elk); *Wilkins v. Sec’y of Interior*, 995 F.2d 850, 851 (8th Cir. 1993) (reversing district court and upholding NPS plan to remove wild horses); *Intertribal Bison Coop. v. Babbitt*, 25 F. Supp. 2d 1135, 1140–41 (D. Mont. 1998) (upholding NPS plan to manage Yellowstone bison), *aff’d*, 175 F.3d 1149 (9th Cir. 1999); *Greater Yellowstone Coal. v. Babbitt*, 952 F. Supp. 1435, 1445–46 (D. Mont. 1996) (upholding NPS plan to authorize capture or killing of bison by state officials), *aff’d*, 108 F.3d 1385 (9th Cir. 1997).

Organic Act.³⁸⁴ Specific establishment legislation for individual parks authorizes limited subsistence or recreational hunting, trapping, or fishing within approximately thirty-one NPS units.³⁸⁵ Those areas permitting hunting, trapping, or fishing typically do so in conformance with applicable federal and state laws.³⁸⁶ NPS regulations prohibit commercial fishing in the parks.³⁸⁷ However, in *Alaska Wildlife Alliance v. Jensen*,³⁸⁸ the Ninth Circuit held that NPS has the discretion to permit commercial fishing in non-wilderness areas of certain Alaska parks.³⁸⁹

3. The National Wildlife Refuge System

a. The National Wildlife Refuge System Improvement Act (1997)

The National Wildlife Refuge System is unique among federal land conservation units in its explicit focus on wildlife and ecosystem conservation as its dominant use.³⁹⁰ FWS manages the Refuge System under the auspices of the National Wildlife Refuge System Administration Act,³⁹¹ which was amended in 1997 by the National Wildlife Refuge System Improvement Act.³⁹² The agency also provides detailed explanations of its statutory obligations in its regulations³⁹³ and the FWS Manual.³⁹⁴

³⁸⁴ COGGINS & GLICKSMAN, *supra* note 124, § 32:14; *see* *United States v. Jarrell*, 143 F. Supp. 2d 605, 605–06, 609 (W.D. Va. 2001) (upholding conviction for hunting in Shenandoah National Park); *Organized Fisherman of Fla.*, 488 F. Supp. 1351, 1355 (S.D. Fla. 1980) (denying a preliminary injunction to enjoin enforcement of NPS regulations that restricted fishing practices in a national park).

³⁸⁵ Jessica Almy, Student Article, *Taking Aim at Hunting on National Park Service Lands*, 18 N.Y.U. ENVTL. L.J. 184, 185 (2010); *see Nat'l Rifle Ass'n*, 628 F. Supp. 903, 907 n.4 (D.D.C. 1986) (finding express authorization for hunting in the enabling acts of thirty-one NPS properties).

³⁸⁶ 36 C.F.R. § 2.2(b)(4) (2016); 43 C.F.R. § 24.4(f) (2016); *Organized Fishermen of Fla.*, 775 F.2d 1544, 1549 (11th Cir. 1985) (finding that, despite Florida law, there was no right to engage in commercial fishing in Everglades National Park); *United States v. Knauer*, 635 F. Supp. 2d 203, 212 (E.D.N.Y. 2009) (holding that permission for commercial fishing or hunting in Gateway National Park was left to NPS); *see also* *Fund for Animals v. Mainella*, 294 F. Supp. 2d 46, 48, 52 (D.D.C. 2003) (refusing to enjoin state's bear hunt in Delaware Gap National Recreation Area since statutory language provided that federal regulation was required only when NPS exercised its discretion to place limitations on hunting or to provide areas for intensive management).

³⁸⁷ 36 C.F.R. §§ 2.3(d)(4), 5.3; *see S.F. Herring Ass'n v. U.S. Dep't of Interior*, No. 13-cv-01750-JST, 2014 WL 172232, at *4–6 (N.D. Cal. Jan. 15, 2014) (finding that NPS had authority to issue citations to commercial fishermen in San Francisco Bay near the Golden Gate Recreational Area).

³⁸⁸ 108 F.3d 1065 (9th Cir. 1997).

³⁸⁹ *Id.* at 1067, 1074.

³⁹⁰ *National Wildlife Refuge System Improvement Act of 1997 Public Law 105-57*, U.S. FISH & WILDLIFE SERV., <https://perma.cc/S8FN-FHHT> (last updated Aug. 19, 2009).

³⁹¹ National Wildlife Refuge System Administration Act of 1966, 16 U.S.C. §§ 668dd–668ee (2012); *see The Refuge System and FWS*, U.S. FISH & WILDLIFE SERV., <https://perma.cc/4N9R-GDXQ> (last visited Nov. 11, 2017).

³⁹² National Wildlife Refuge System Improvement Act of 1997, Pub. L. No. 105-57, 111 Stat. 1252 (1997).

³⁹³ *See* 50 C.F.R. pts. 31–32 (2016).

The Act authorizes the agency to permit the use of any area within the system for any purpose as long as it is determined that the proposed use is compatible with the “major purposes for which the areas were established.”³⁹⁵ The Act further clarifies that all actions on a refuge must be compatible with both the mission of the refuge system and the purposes of the relevant individual refuge (as determined by the establishment legislation of that refuge).³⁹⁶ Where the system mission and refuge purposes conflict, refuge purposes should be given precedence, while still fulfilling the system mission to the extent that is possible.³⁹⁷ The agency’s discretion in determining whether a use is compatible is further limited by the requirement that compatibility be based on “sound professional judgment.”³⁹⁸ Furthermore, agency regulations require compatibility determinations to: 1) be written, 2) identify the proposed or existing use that the compatibility determination applies to, and 3) state whether the proposed use is in fact a compatible use based on “sound professional judgment.”³⁹⁹

The mission of the refuge system, as provided by the Act, “is to administer a national network of lands and waters for the conservation, management, and where appropriate, restoration of the fish, wildlife, and plant resources and their habitats within the United States for the benefit of present and future generations of Americans.”⁴⁰⁰ In meeting the mission of the system, the statute lays out explicit obligations for the agency.⁴⁰¹ Three of these statutory requirements are particularly relevant to this discussion and are elaborated upon in greater detail below:

In administering the system the Secretary shall—

(A) provide for the conservation of fish, wildlife, and plants, and their habitat within the System;

(B) ensure that the biological integrity, diversity, and environmental health of the System are maintained for the benefit of present and future generations of Americans;

....

³⁹⁴ See *Service Manual Chapters: Series 600 – Land Use and Management Series*, U.S. FISH & WILDLIFE SERV., <https://perma.cc/Q93L-S223> (last updated Nov. 2, 2017).

³⁹⁵ 16 U.S.C. § 668dd(d)(1)(A).

³⁹⁶ *Id.* § 668ee(1). Establishment legislation is of key importance in refuge management as a source of refuge purposes and a guide to refuge management. Many refuges have purposes derived from multiple pieces of establishment legislation, which can lead to confusion regarding the relative priorities of the various refuge purposes. ROBERT L. FISCHMAN, *THE NATIONAL WILDLIFE REFUGES: COORDINATING A CONSERVATION SYSTEM THROUGH LAW* 164 (2003).

³⁹⁷ 16 U.S.C. § 668dd(a)(4)(D).

³⁹⁸ *Id.* § 668ee(1); see *Del. Audubon Soc’y v. Salazar*, 829 F. Supp. 2d 273, 288–89 (D. Del. 2011) (finding that a dune restoration decision was within sound professional judgment when it was “supported by scientific literature”).

³⁹⁹ 50 C.F.R. § 25.12 (2016).

⁴⁰⁰ 16 U.S.C. § 668dd(a)(2).

⁴⁰¹ See *id.* § 668dd(a)(4).

(E) ensure effective coordination, interaction, and cooperation with owners of land adjoining refuges and the fish and wildlife agency of the States in which the units of the System are located.⁴⁰²

Two significant court cases interpret many of the provisions of the Act. In *Wyoming v. United States*, the state argued that FWS interfered with the state's sovereign right to manage wildlife by prohibiting the state from vaccinating elk against brucellosis on refuge lands.⁴⁰³ The Tenth Circuit ultimately determined that ordinary principles of preemption applied; if the state's actions would conflict with federal mandates or present an obstacle to their accomplishment, then the state is preempted by the Improvement Act.⁴⁰⁴ In *National Audubon Society, Inc. v. Davis*, environmental groups challenged California over a state law banning the use of all leg-hold traps in the state, including those used on federal lands or to protect endangered species.⁴⁰⁵ The Ninth Circuit found that the ban conflicted with FWS's statutory authority to manage refuges, and so the state law was preempted.⁴⁰⁶ These two cases are discussed in detail below.⁴⁰⁷

i. Provide for the Conservation of Fish, Wildlife, Plants, and Their Habitats

The Refuge Improvement Act groups the terms “conserving,” “conservation,” “manage,” “managing,” and “management” together, and provides a single definition for all of them: “to sustain and, where appropriate, restore and enhance, healthy populations of fish, wildlife, and plants.”⁴⁰⁸ As the *Wyoming* court states, it would be impossible for the agency to meet its obligation for conservation “unless [refuges] are consistently directed and managed as a national system.”⁴⁰⁹ Furthermore, that court found that “Congress undoubtedly intended a preeminent federal role for the FWS in the care and management of the [National Wildlife Refuge System].”⁴¹⁰ The *Audubon* court concurred in this reasoning,

⁴⁰² *Id.*

⁴⁰³ *Wyoming*, 279 F.3d 1214, 1222, 1229 (10th Cir. 2002).

⁴⁰⁴ *Id.* at 1234–35.

⁴⁰⁵ 307 F.3d 835, 842–44 (9th Cir.), *amended on denial of reh'g*, 312 F.3d 416 (9th Cir. 2002).

⁴⁰⁶ *Id.* at 854.

⁴⁰⁷ See *infra* notes 409–411, 426–433 and accompanying text.

⁴⁰⁸ 16 U.S.C. § 668ee(4) (2012).

⁴⁰⁹ *Wyoming*, 279 F.3d 1214, 1233 (10th Cir. 2002) (quoting H.R. REP. NO. 105-106, at 8 (1997)).

⁴¹⁰ *Id.* at 1234. In another case, *Defenders of Wildlife v. Salazar*, the D.C. Circuit defined “conservation” in this context by referencing the specific facts of the case. 651 F.3d 112, 115–17 (D.C. Cir. 2011). In that case, FWS was accused of violating the conservation mandate of the Improvement Act by failing to commit to a deadline to end the agency's elk feeding program in the National Elk Refuge. *Id.* at 115. The court determined that there was “no doubt that unmitigated continuation of supplemental feeding would undermine the conservation purpose of the National Wildlife Refuge System,” yet the court determined that a phased (rather than an abrupt) ending of that program was reasonable. *Id.* at 117.

referencing the goals of the Improvement Act and FWS's authority over refuge lands in its finding that state law was preempted.⁴¹¹

ii. Ensure That the Biological Integrity, Diversity, and Environmental Health of the System Are Maintained

While the statute itself does not define these terms, FWS defines them in its manual.⁴¹² The manual states that the “highest measure of biological integrity, diversity, and environmental health is viewed as those intact and self-sustaining habitats and wildlife populations that existed during historic conditions.”⁴¹³ Therefore, the agency “favor[s] management that restores or mimics natural ecosystem processes or functions.”⁴¹⁴ The agency’s manual also lays out the major principles underlying the biological integrity policy, the first of which is that wildlife conservation must always be the primary concern in the management of the refuges,⁴¹⁵ and that ensuring biological integrity, diversity, and environmental health is necessary for the agency to fulfill the system mission of conservation.⁴¹⁶

The requirement to maintain “biological integrity, diversity, and environmental health” requires refuge officials to “manage lands to conserve the full range of wild species and plant communities” that existed in a refuge before it was substantially changed by humans, and also “calls for the conservation of basic ecological processes with little human alteration, including the natural biological processes that shape genomes, organisms, and communities.”⁴¹⁷ As Fischman describes the biological integrity requirement: “No other organic mandate employs as unconditional or specific a series of ecological criteria to constrain management and promote conservation.”⁴¹⁸

iii. Ensure Effective Coordination, Interaction, and Cooperation

Congress clearly intended for FWS to cooperate meaningfully with other land managers, particularly states. Included in the statute is a requirement that the agency issue a conservation plan for each refuge that is “consistent with the provisions of this Act and, to the extent practicable, consistent with fish and wildlife conservation plans of the State in which the refuge is located.”⁴¹⁹ As the *Wyoming* court states, the Improvement Act calls

⁴¹¹ *Nat'l Audubon Soc'y*, 307 F.3d at 854.

⁴¹² U.S. FISH & WILDLIFE SERV., SERVICE MANUAL 610 FW 3, BIOLOGICAL INTEGRITY, DIVERSITY, AND ENVIRONMENTAL HEALTH § 3.6 (2001), www.fws.gov/policy/601fw3.html.

⁴¹³ *Id.* § 3.10.

⁴¹⁴ *Id.* § 3.7(E).

⁴¹⁵ *Id.* § 3.7(A).

⁴¹⁶ *Id.* § 3.7(B).

⁴¹⁷ FREYFOGLE & GOBLE, *supra* note 292, at 212.

⁴¹⁸ FISCHMAN, *supra* note 396, at 126; *see also Defs. of Wildlife*, 651 F.3d 112, 116 (D.C. Cir. 2011) (emphasizing the agency’s “biological integrity” mandate).

⁴¹⁹ 16 U.S.C. § 668dd(e)(1)(A)(iii) (2012).

for, “at a minimum, state involvement and participation in the management of the [National Wildlife Refuge System] as that system affects surrounding state ecosystems.”⁴²⁰ However, in understanding the statute we must give effect to all of the language provided, and while Congress strongly encourages cooperation, it also tempers that goal by finding that it is only necessary “to the extent practicable,” otherwise the agency would not be capable of fulfilling its congressionally designated mission.⁴²¹ As the *Wyoming* court observed: “Congress undoubtedly intended a preeminent federal role for the FWS in the care and management of the [National Wildlife Refuge System].”⁴²²

iv. Savings Clause

The Improvement Act also contains two savings clauses. First, the Act prohibits the taking of any fish or animal within refuges without FWS permission,⁴²³ but the prohibition does not extend beyond refuge boundaries: “Nothing in this Act shall be construed to authorize the Secretary to control or regulate hunting or fishing of fish and resident wildlife on lands or waters that are not within the System.”⁴²⁴ Next, the Act provides that:

Nothing in this Act shall be construed as affecting the authority, jurisdiction, or responsibility of the several States to manage, control, or regulate fish and resident wildlife under State law or regulations in any area within the System. Regulations permitting hunting or fishing of fish and resident wildlife within the System shall be, to the extent practicable, consistent with State fish and wildlife laws, regulations, and management plans.⁴²⁵

The state in *Wyoming* argued that the first sentence of the savings clause retains to the state “the absolute right to manage wildlife . . . free from federal intervention.”⁴²⁶ However, the Tenth Circuit found that as a matter of statutory construction the first sentence cannot be read in isolation; instead, the clause must be understood in its entirety, giving effect to the whole clause.⁴²⁷ The second sentence of the savings clause indicates that federal regulation of wildlife on refuges only has to be consistent with state law “to the extent practicable.”⁴²⁸ So while consistency is encouraged, it is not mandated at the expense of the other requirements of the statute.

⁴²⁰ *Wyoming*, 279 F.3d 1214, 1231 (10th Cir. 2002).

⁴²¹ 16 U.S.C. § 668dd(e)(1)(A)(iii); *Wyoming*, 279 F.3d at 1233.

⁴²² *Wyoming*, 279 F.3d at 1234.

⁴²³ 16 U.S.C. § 668dd(c); see *United States v. Kilpatrick*, 347 F. Supp. 2d 693, 695 (D. Neb. 2004) (upholding conviction for trespassing on and shooting deer in a closed portion of a wildlife refuge).

⁴²⁴ *Id.* § 668dd(J).

⁴²⁵ *Id.* § 668dd(m).

⁴²⁶ *Wyoming*, 279 F.3d at 1231.

⁴²⁷ *Id.*

⁴²⁸ 16 U.S.C. § 668dd(m); *Wyoming*, 279 F.3d at 1232.

The *Wyoming* court also found that if the first sentence is read so as to exclude the possibility of FWS authority to manage wildlife in ways that might conflict with state law, such a result “would be inconsistent with the [Improvement Act’s] ‘mission . . . to administer a national network of lands.’”⁴²⁹ Interpreting the statute as prohibiting FWS from ever acting contrary to state law would leave the state “free to manage and regulate the [refuge] in a manner the FWS deemed incompatible with the [refuge’s] purpose.”⁴³⁰ The *Wyoming* court found it “highly unlikely . . . that Congress would carefully craft the substantive provisions of the [Improvement Act] to grant authority to the FWS to manage the [refuge] and promulgate regulations thereunder and then essentially nullify those provisions and regulations with a single sentence.”⁴³¹ The *Audubon* court agreed, stating “the first sentence of the savings clause was not meant to eviscerate the primacy of federal authority over [National Wildlife Refuge] management.”⁴³² To the extent that state law conflicts with or undermines statutory requirements or federal objectives, it is preempted.⁴³³ The Department of the Interior has adopted this cooperative federalism interpretation of the savings clause as well.⁴³⁴

v. Compatibility Determinations

The compatibility determination forms the central criterion for determining whether or not actions will be allowed to proceed on refuge lands and therefore is the key mechanism in implementing the statute’s goal of conservation. A compatible use is one that “in the sound professional judgment of [FWS] will not materially interfere with or detract from the fulfillment of the mission of the System or the purposes of the refuge.”⁴³⁵ In implementing this provision, FWS must consider direct, indirect, and cumulative impacts of the proposed use.⁴³⁶ However, actions categorized as

⁴²⁹ *Wyoming*, 279 F.3d at 1234 (omission in original) (quoting 16 U.S.C. § 668dd(a)(2)).

⁴³⁰ *Id.*

⁴³¹ *Id.* at 1234–35 (citation omitted); see *Geier v. Am. Honda Motor Co.*, 529 U.S. 861, 870 (2000) (“[T]his Court has repeatedly ‘decline[d] to give broad effect to savings clauses where doing so would upset the careful regulatory scheme established by federal law.’” (second alteration in original) (quoting *United States v. Locke*, 529 U.S. 89, 106–07 (2000))).

⁴³² *Nat’l Audubon Soc’y*, 307 F.3d 835, 854 (9th Cir.), *amended on denial of reh’g*, 312 F.3d 416 (9th Cir. 2002).

⁴³³ *Id.*; see *Sch. Bd. of Avoyelles Par. v. U.S. Dep’t of Interior*, 647 F.3d 570, 582 (5th Cir. 2011) (finding that Louisiana law was in direct conflict with Property Clause and the National Refuge Act and was therefore pre-empted insofar as the Louisiana statute—allowing owner of estate that has no access to public road to claim right of passage over neighboring property—“would permit the School Board to enter, use, or otherwise occupy Refuge lands in violation of FWS regulations”).

⁴³⁴ 43 C.F.R. § 24.4(e) (2016).

⁴³⁵ 16 U.S.C. § 668ee(1) (2012); 50 C.F.R. § 25.12(a) (2016).

⁴³⁶ Final Compatibility Policy Pursuant to the National Wildlife Refuge System Improvement Act of 1997, 65 Fed. Reg. 62,484, 62,489 (Oct. 18, 2000).

“refuge management activity” do not require compatibility determinations,⁴³⁷ though refuge management activities must be actions in furtherance of the system mission or refuge purposes and so are inherently compatible.⁴³⁸ State wildlife management activities may be considered “refuge management activities” if they are taken “pursuant to a cooperative agreement between the State and [FWS] where the Refuge Manager has made a written determination that such activities support fulfilling the refuge purposes or the System mission.”⁴³⁹ Because compatibility determinations must be made using “sound professional judgment,”⁴⁴⁰ the *Wyoming* court found that a reviewing court has “law to apply,” and the determinations are reviewable in court.⁴⁴¹

In conclusion, Congress delegated to FWS the responsibility to manage the national wildlife refuges in accordance with the specific requirements laid out in both the Refuge Improvement Act and the establishment legislation for individual refuges. Ultimately, it is up to refuge managers to determine whether it is “practicable” and “consistent” for state laws to be applied on refuge lands.⁴⁴² As the *Wyoming* court stated: “The first sentence of the saving clause does not deny the FWS, where at odds with the State, the authority to make a binding decision bearing upon the ‘biological integrity, diversity, and environmental health of the System.’”⁴⁴³ Both the compatibility requirement and the mandate to promote biological integrity, diversity, and environmental health impose legally enforceable restrictions and obligations on FWS that cannot be cast aside at the request of states.

4. The National Forest System

a. The 1897 Organic Act

USFS’s 1897 “Organic Act”⁴⁴⁴ authorizes the establishment of national forests.⁴⁴⁵ It states in part that “[n]o national forest shall be established, except to improve and protect the forest within the boundaries, or for the purpose of securing favorable conditions of water flows, and to furnish a continuous supply of timber for the use and necessities of citizens of the United States.”⁴⁴⁶ The law also authorizes USFS to regulate “the occupancy

⁴³⁷ *Id.* at 62,488; U.S. FISH & WILDLIFE SERV., SERVICE MANUAL 610 FW 1, GENERAL OVERVIEW OF WILDERNESS STEWARDSHIP POLICY § 1.5(V) (2008) [hereinafter FWS WILDERNESS POLICY].

⁴³⁸ 50 C.F.R. § 25.12(a); Final Compatibility Policy Pursuant to the National Wildlife Refuge System Improvement Act of 1997, 65 Fed. Reg. at 62,489; *see* Joly, *supra* note 275, at 45–46.

⁴³⁹ Final Compatibility Policy Pursuant to the National Wildlife Refuge System Improvement Act of 1997, 65 Fed. Reg. at 62,488.

⁴⁴⁰ 16 U.S.C. § 668ee(1).

⁴⁴¹ *Wyoming*, 279 F.3d 1214, 1237 (10th Cir. 2002).

⁴⁴² FREYFOGLE & GOBLE, *supra* note 292, at 215.

⁴⁴³ *Wyoming*, 279 F.3d at 1234 (quoting 16 U.S.C. § 668dd(a)(4)(B)).

⁴⁴⁴ Act of June 4, 1897, ch. 2, 30 Stat. 11, 34–36 (codified as amended at 16 U.S.C. §§ 473–482, 551 (2012)).

⁴⁴⁵ 16 U.S.C. § 475.

⁴⁴⁶ *Id.*

and use” of the national forests and “to preserve the forests thereon from destruction.”⁴⁴⁷

The Organic Act is silent on fish and wildlife management on national forests. In an early wildlife decision, however, the Supreme Court found USFS to have broad powers in protecting the national forests (in this case the Kaibab) from damage inflicted by deer in northern Arizona.⁴⁴⁸ The power of the United States, said the Court, to “protect its lands and property does not admit of doubt, the game laws of any other statute of the state to the contrary notwithstanding.”⁴⁴⁹

b. The Multiple-Use Sustained-Yield Act of 1960

In 1960, Congress passed the Multiple-Use Sustained-Yield Act⁴⁵⁰ (MUSYA). For the first time, it was statutorily recognized that USFS had some responsibility to consider fish and wildlife values on the national forests.⁴⁵¹ MUSYA states in pertinent part: “It is the policy of the Congress that the national forests are established and shall be administered for outdoor recreation, range, timber, watershed, *and wildlife and fish* purposes.”⁴⁵² This language does not require USFS to conserve wildlife in any specific way, only to consider wildlife and fish in the context of multiple-use decision making. As defined in the law, multiple use means:

The management of all the various renewable surface resources of the national forests so that they are utilized in the combination that will best meet the needs of the American people; making the most judicious use of the land for some or all of these resources or related services over areas large enough to provide sufficient latitude for periodic adjustments in use to conform to changing needs and conditions; that some land will be used for less than all of the resources; and harmonious and coordinated management of the various resources, each with the other, without impairment of the productivity of the land, with consideration being given to the relative values of the various

⁴⁴⁷ See *id.* § 551 (“The Secretary of Agriculture shall make provisions for the protection against destruction by fire and depredations upon the public forests and national forests which may have been set aside or which may be hereafter set aside under the provisions of section 471 of this title, and which may be continued; and he may make such rules and regulations and establish such service as will insure the objects of such reservations, namely, to regulate their occupancy and use and to preserve the forests thereon from destruction.” (footnote omitted)); see also *Forest Serv. Emps. for Envtl. Ethics v. U.S. Forest Serv.*, 689 F. Supp. 2d 891, 905 (W.D. Ky. 2010) (finding that USFS unlawfully delegated its Organic Act authority in allowing the National Wild Turkey Federation to issue special use permits on forest lands).

⁴⁴⁸ *Hunt*, 278 U.S. 96, 100 (1928).

⁴⁴⁹ *Id.* (citations omitted).

⁴⁵⁰ Multiple-Use Sustained-Yield Act of 1960, Pub. L. No. 86-517, 74 Stat. 215 (codified as amended at 16 U.S.C. §§ 528-531).

⁴⁵¹ 16 U.S.C. § 528.

⁴⁵² *Id.* (emphasis added).

resources, and not necessarily the combination of uses that will give the greatest dollar return or the greatest unit output.⁴⁵³

As the courts generally view it, the multiple-use mandate “breathe[s] discretion at every pore”⁴⁵⁴ and grants USFS wide latitude in determining the “proper mix of uses” for national forest lands.⁴⁵⁵ In *Perkins v. Bergland*, the plaintiffs argued that MUSYA contained standards that cabined USFS’s discretion over the proper number of grazing permits to protect the public land from damage.⁴⁵⁶ The Ninth Circuit disagreed:

These sections of MUSYA contain the most general clauses and phrases. For example, the agency is “directed” in section 529 to administer the national forests “for multiple use and sustained yield of the several products and services obtained therefrom,” with “due consideration [to] be given to the relative values of the various resources in particular areas.” This language, partially defined in section 531 in such terms as “that [which] will best meet the needs of the American people” and “making the most judicious use of the land,” can hardly be considered concrete limits upon agency discretion. Rather, it is language which “breathe[s] discretion at every pore.” What appellants really seem to be saying when they rely on the multiple-use legislation is that they do not agree with the Secretary on how best to administer the forest land on which their cattle graze. While this disagreement is understandable, the courts are not at liberty to break the tie by choosing one theory of range management as superior to another.⁴⁵⁷

Since *Perkins v. Bergland*, the courts have consistently found that USFS has broad discretion under the multiple-use framework.⁴⁵⁸ This includes *Wyoming v. U.S. Department of Agriculture*, where the Tenth Circuit upheld the 2001 Roadless Rule⁴⁵⁹ over challenges that the Rule failed to satisfy the statutory multiple-use mandate because it precluded timber harvesting in

⁴⁵³ *Id.* § 531(a).

⁴⁵⁴ *Perkins v. Bergland*, 608 F.2d 803, 806 (9th Cir. 1979) (alteration in original) (quoting *Strickland v. Morton*, 519 F.2d 467, 469 (9th Cir. 1975)).

⁴⁵⁵ *Wyoming v. U.S. Dep’t of Agric.*, 661 F.3d 1209, 1268 (10th Cir. 2011).

⁴⁵⁶ *Perkins*, 608 F.2d at 806.

⁴⁵⁷ *Id.* at 806–07 (alterations in original) (citations and footnotes omitted).

⁴⁵⁸ *See, e.g.*, *Cal. Forestry Ass’n v. Bosworth*, No. 2:05-cv-00905-MCE-GGH., 2008 WL 4370074, at *4 (E.D. Cal. Sept. 24, 2008); *Pac. Rivers Council v. U.S. Forest Serv.*, No. 2:05-cv-00953-MCE-GGH., 2008 WL 4291209, at *16–17 (E.D. Cal. Sept. 18, 2008), *aff’d in part and rev’d in part*, 689 F.3d 1012 (9th Cir. 2012); *California ex rel. Lockyer v. U.S. Dep’t of Agric.*, No. 2:05-cv-0211-MCE-GGH., 2008 WL 3863479, at *7–8 (E.D. Cal. Aug. 19, 2008), *aff’d sub nom.*, *Sierra Forest Legacy v. Sherman*, 646 F.3d 1161 (9th Cir. 2011); *Nat. Res. Def. Council, Inc. v. U.S. Forest Serv.*, 634 F. Supp. 2d 1045, 1058 (E.D. Cal. 2007); *Clinch Coal. v. Damon*, 316 F. Supp. 2d 364, 378 (W.D. Va. 2004); *Sierra Club v. Marita*, 845 F. Supp. 1317, 1328 (E.D. Wis. 1994), *aff’d*, 46 F.3d 606 (7th Cir. 1995); *Wind River Multiple-Use Advocates v. Espy*, 835 F. Supp. 1362, 1372 (D. Wyo. 1993), *aff’d*, 85 F.3d 641 (10th Cir. 1996); *Big Hole Ranchers Ass’n v. U.S. Forest Serv.*, 686 F. Supp. 256, 264 (D. Mont. 1988).

⁴⁵⁹ *Special Areas; Roadless Area Conservation*, 66 Fed. Reg. 3244 (Jan. 12, 2001).

certain areas.⁴⁶⁰ The court reaffirmed MUSYA's discretionary nature and found that, while the Rule did not permit timber harvesting, it permitted other multiple uses, such as "outdoor recreation,' 'watershed,' and 'wildlife and fish purposes.'"⁴⁶¹

A relatively short and simple savings clause is also provided in MUSYA: "Nothing herein shall be construed as affecting the jurisdiction or responsibilities of the several States with respect to wildlife and fish on the national forests."⁴⁶² However, as noted above, in *California Coastal Commission v. Granite Rock Co.*, the Supreme Court held that federal law preempted the extension of state land use plans onto national forest lands because the savings clause merely indicates that ordinary principles of preemption govern such disputes.⁴⁶³ By the same token, contradictory state regulation of wildlife in the national forests would be preempted despite the savings clause.⁴⁶⁴

c. The National Forest Management Act of 1976

Born out of the timber clear-cutting controversies of the 1960s and 1970s, NFMA was passed in order to better balance timber management, resource use, and environmental protection.⁴⁶⁵ Unlike the highly discretionary Organic Act and MUSYA, NFMA provides substantive and procedural planning requirements, goals, and constraints on the agency, including obligations for managing fish and wildlife.⁴⁶⁶ NFMA requires the writing of land and resource management plans (LRMPs or forest plans) by every national forest and grassland in the National Forest System (NFS).⁴⁶⁷

NFMA created a three-tiered regulatory approach to planning.⁴⁶⁸ At the highest level, national-level NFMA regulations govern the development and revision of second-tier forest plans.⁴⁶⁹ Forest plans typically make zoning and suitability decisions, and limit and regulate various activities within a forest area, therefore acting as a gateway through which subsequent project-level proposals must pass.⁴⁷⁰ Forest plans also include long-term goals and desired

⁴⁶⁰ *Wyoming*, 661 F.3d at 1267–69; *accord* *Am. Whitewater v. Tidwell*, 959 F. Supp. 2d 839, 863 (D.S.C. 2013), *aff'd*, 770 F.3d 1108 (4th Cir. 2014); *Ark Initiative v. Tidwell*, 816 F.3d 119, 128 (D.C. Cir.), *cert. denied*, 137 S. Ct. 301 (2016).

⁴⁶¹ *Wyoming*, 661 F.3d at 1268–69 (quoting 16 U.S.C. § 528 (2012)).

⁴⁶² 16 U.S.C. § 528.

⁴⁶³ *Granite Rock Co.*, 480 U.S. 572, 585, 593–94 (1987).

⁴⁶⁴ *Hunt*, 278 U.S. 96, 100 (1928) (upholding federal removal of deer from the Kaibab National Forest to protect the forest from damage caused by overgrazing, despite objections from the state).

⁴⁶⁵ 16 U.S.C. § 1600.

⁴⁶⁶ *See id.* §§ 1603–1604; 36 C.F.R. § 219.1 (2016).

⁴⁶⁷ 16 U.S.C. § 1604(a).

⁴⁶⁸ *Id.* § 1604. For a more elaborate explanation of this tiered approach, see *Citizens for Better Forestry v. U.S. Department of Agriculture*, 341 F.3d 961, 965–66 (9th Cir. 2003).

⁴⁶⁹ *Citizens for Better Forestry*, 341 F.3d at 965 (citing 16 U.S.C. § 1604(g)).

⁴⁷⁰ Scott W. Hardt, *Federal Land-Use Planning and Its Impact on Resource Management Decisions*, in *PUBLIC LAND LAW II* (Rocky Mountain Mineral Law Found., Special Inst. 1997).

conditions of the land and resources.⁴⁷¹ Site-specific projects make up the third tier of planning.⁴⁷² Any such proposed use of a national forest is subject to the requirement in NFMA that “[r]esource plans and permits, contracts, and other instruments for use and occupancy of National Forest System lands shall be consistent with” the applicable forest plan.⁴⁷³ Thus, to the extent that states are subject to USFS authority, that authority must be exercised in conformance with the provisions in the current forest plan.

i. NFMA and Wildlife

One of NFMA’s most powerful provisions is its wildlife diversity mandate.⁴⁷⁴ It requires that forest plans “provide for diversity of plant and animal communities based on the suitability and capability of the specific land area in order to meet overall multiple-use objectives.”⁴⁷⁵ According to Wilkinson and Anderson’s authoritative history of NFMA’s development, the diversity provision was meant to require “[USFS] planners to treat the wildlife resource as a controlling, co-equal factor in forest management and, in particular, as a substantive limitation on timber production.”⁴⁷⁶ Regulations implementing NFMA address requirements for diversity in greater detail.⁴⁷⁷ If state wildlife management actions occur on national forest lands they must be considered in this statutory and regulatory context, and may be subject to preemption based on USFS’s authority and obligations for wildlife diversity.⁴⁷⁸

Most “first-generation” forest plans were written pursuant to the 1982 NFMA regulations. Those regulations required that “[f]ish and wildlife habitat shall be managed to maintain viable populations of existing native and desired non-native vertebrate species in the planning area.”⁴⁷⁹ While this language emphasized management of habitat, the regulation also established a minimum population threshold, at least in concept, by defining “viable population” as “one which has the estimated numbers and distribution of

⁴⁷¹ See generally Michael J. Gippert & Vincent L. DeWitte, *The Nature of Land and Resource Management Planning Under the National Forest Management Act*, 3 ENVTL. LAW. 149 (1996) (discussing the various planning processes under NFMA); see also Ohio Forestry Ass’n v. Sierra Club, 523 U.S. 726, 729 (1998) (describing the nature of forest plans).

⁴⁷² *Citizens for Better Forestry*, 341 F.3d at 966.

⁴⁷³ 16 U.S.C. § 1604(i).

⁴⁷⁴ See generally Courtney A. Schultz et al., *Wildlife Conservation Planning Under the United States Forest Service’s 2012 Planning Rule*, 77 J. WILDLIFE MGMT. 428 (2013) (exploring the broad implications for wildlife management under the 2012 Planning Rule).

⁴⁷⁵ 16 U.S.C. § 1604(g)(3)(B).

⁴⁷⁶ CHARLES F. WILKINSON & H. MICHAEL ANDERSON, *LAND AND RESOURCE PLANNING IN THE NATIONAL FORESTS* 296 (1987).

⁴⁷⁷ See, e.g., National Forest System Land and Resource Management Planning, 47 Fed. Reg. 43,026, 43,050 (Sept. 30, 1982) (to be codified at 36 C.F.R. pt. 219).

⁴⁷⁸ See, e.g., 36 C.F.R. § 219.26 (2016) (discussing the requirements for pursuing and maintaining ecological diversity).

⁴⁷⁹ National Forest System Land and Resource Management Planning, 47 Fed. Reg. at 43,048 (to be codified at 36 C.F.R. § 219.19); see, e.g., Seattle Audubon Soc’y v. Moseley, 80 F.3d 1401, 1404–05 (9th Cir. 1996) (applying viability regulations to northern spotted owl).

reproductive individuals to insure its continued existence is well distributed in the planning area.”⁴⁸⁰

Existing forest plans will be revised (many during the next decade) and amended under new NFMA implementing procedures codified in the 2012 Planning Rule.⁴⁸¹ They include a different set of substantive requirements for management of wildlife. For ESA-listed species, forest plan components (e.g., desired future conditions, objectives, standards, and guidelines) must provide the “ecological conditions necessary to[] contribute to” their recovery.⁴⁸² For other at-risk species, referred to as species of conservation concern (SCC), forest plan components must provide the “ecological conditions necessary to . . . maintain a viable population of each species of conservation concern within the plan area.”⁴⁸³ There is an exception for SCC management: where population viability is beyond the authority of USFS or capability of the land, USFS must coordinate to the extent practicable with others having management authority over lands relevant to a larger population.⁴⁸⁴

The 2012 Planning Rule defines “ecological conditions” to include “habitat and other influences on species and the environment.”⁴⁸⁵ Other influences include “human uses.”⁴⁸⁶ The Rule defines “viable population” as “[a] population of a species that continues to persist over the long term with sufficient distribution to be resilient and adaptable to stressors and likely future environments.”⁴⁸⁷ Like its predecessor, the 2012 Planning Rule thus establishes population levels for at-risk species as a goal, which is to be achieved by providing ecological conditions and regulating human uses.

Forest plans may be considered as “regulatory mechanisms,” as defined by the ESA, during the listing process and may be a basis for not listing a species.⁴⁸⁸ Regulations of the United States Department of Agriculture

⁴⁸⁰ National Forest System Land and Resource Management Planning, 47 Fed. Reg. at 43,048 (to be codified at 36 C.F.R. § 219.19).

⁴⁸¹ National Forest System Land Management Planning, 77 Fed. Reg. 21,162 (Apr. 9, 2012).

⁴⁸² 36 C.F.R. § 219.9(b)(1).

⁴⁸³ *Id.* Agency planning policy requires that species identified by states as being at risk be considered as potential SCC. U.S. FOREST SERV., FOREST SERVICE HANDBOOK: LAND MANAGEMENT PLANNING HANDBOOK § 1909.12 (2013).

⁴⁸⁴ 36 C.F.R. § 219.9(b)(2).

⁴⁸⁵ *Id.* § 219.19.

⁴⁸⁶ *Id.*

⁴⁸⁷ *Id.* § 219.49.

⁴⁸⁸ *See* Greater Yellowstone Coal., Inc. v. Servheen, 665 F.3d 1015, 1030–32 (9th Cir. 2011) (finding forest plan direction was properly considered a valid regulatory mechanism for providing protection for grizzly bears). The decision to list Canada lynx as a threatened species was based largely on the lack of regulatory mechanisms in federal plans. Endangered and Threatened Wildlife and Plants; Determination of Threatened Status for the Contiguous U.S. Distinct Population Segment of the Canada Lynx and Related Rule, 65 Fed. Reg. 16,052, 16,074 (Mar. 24, 2000) (to be codified at 50 C.F.R. pt. 17) (“Therefore, amendment of Forest Plans to provide protection for lynx and lynx habitat is needed to conserve habitat for lynx and its prey on Federal forest lands. Without such amendments, the species is threatened.”). The decision to not list the greater sage grouse was based largely on plans for federal lands that conserved the species. *See* Endangered and Threatened Wildlife and Plants; 12-Month Finding on a Petition to

(USDA) require USFS—and other USDA agencies—to “avoid actions which may cause a species to become threatened or endangered.”⁴⁸⁹ Under current plans and policies, species identified as “sensitive” were so designated in part to avoid their listing under the ESA,⁴⁹⁰ and agency actions may not create “significant trends towards federal listing.”⁴⁹¹ Current forest plans must ensure that viable populations of sensitive species are maintained.⁴⁹² The relationship of newly identified SCC and the ESA has not been as clearly articulated, but their role in developing adequate forest plan regulatory mechanisms should be similar.

When forest plans are amended or revised, they are also subject to the substantive requirements of the ESA for listed species.⁴⁹³ This means that they cannot jeopardize the continued existence of listed species,⁴⁹⁴ or destroy or adversely modify any critical habitat that has been designated,⁴⁹⁵ or result in prohibited incidental take.⁴⁹⁶ Forest plans may also be viewed as the primary means by which the agency is “carrying out programs for the conservation of” listed species, in accordance with section 7(a)(1) of the ESA.⁴⁹⁷

When it prepares forest plans under NFMA, USFS may include plan components that govern activities affecting wildlife.⁴⁹⁸ These plan components may include both desired ecological conditions and restrictions

List Greater Sage-Grouse (*Centrocercus urophasianus*) as an Endangered or Threatened Species, 80 Fed. Reg. 59,858, 59,858 (Oct. 2, 2015) (to be codified at 50 C.F.R. pt. 17).

⁴⁸⁹ U.S. DEP’T OF AGRIC., NO. 9500-004, DEPARTMENTAL REGULATION: FISH AND WILDLIFE POLICY § 1(d) (2008), <https://perma.cc/7T2X-FD7T>.

⁴⁹⁰ U.S. FOREST SERV., FOREST SERVICE MANUAL [FSM] § 2670.22(1) (2005).

⁴⁹¹ *Id.* § 2670.32(4).

⁴⁹² *Id.* § 2672.41 (2009).

⁴⁹³ *See, e.g.,* *Cottonwood Envtl. Law Ctr. v. U.S. Forest Serv.*, 789 F.3d 1075, 1086–88 (9th Cir. 2015), *cert. denied*, 137 S. Ct. 293 (2016).

⁴⁹⁴ *See, e.g.,* *Res. Ltd. v. Robertson*, 35 F.3d 1300, 1304 n.3 (9th Cir. 1993) (finding FWS conditioned its “no jeopardy” conclusion on the USFS’s continued adherence to grizzly bear guidelines).

⁴⁹⁵ *See Cottonwood*, 789 F.3d at 1088 (reinitiation of consultation on forest plans required after designation of critical habitat for Canada lynx).

⁴⁹⁶ Recently settled litigation involving the Superior National Forest Plan claimed that USFS is responsible for the take of Canada lynx resulting from hunting and trapping on the national forest. Complaint for Declaratory and Injunctive Relief at 2, 6, Ctr. for Biological Diversity v. Tidwell, No. 1:16-cv-01049-TSC (D.D.C. June 6, 2016).

⁴⁹⁷ 16 U.S.C. § 1536(a)(1) (2016). The Preamble to the 2012 Planning Rule states that the requirement to contribute to recovery, “will further the purposes of § 7(a)(1) of the ESA, by actively contributing to threatened and endangered species recovery and maintaining or restoring the ecosystems upon which they depend.” National Forest System Land Management Planning, 77 Fed. Reg. 21,162, 21,215 (Apr. 9, 2012) (to be codified at 50 C.F.R. pt. 219). The FWS Handbook for consultation states that a programmatic review based on section 7(a)(1) is appropriate for Federal agency planning and program management documents. U.S. FISH & WILDLIFE SERV. & NAT’L MARINE FISHERIES SERV., CONSULTATION HANDBOOK: PROCEDURES FOR CONDUCTING CONSULTATION AND CONFERENCE ACTIVITIES UNDER SECTION 7 OF THE ENDANGERED SPECIES ACT 1-1, 5-1 (1998), <https://perma.cc/LN7H-HNNL>.

⁴⁹⁸ *See* National Forest System Land and Resource Management Planning, 47 Fed. Reg. 43,026, 43,044 (Sept. 30, 1982) (to be codified at 36 C.F.R. § 219.11) (listing ecological factors as a planning criteria).

on activities that are likely to adversely affect these conditions.⁴⁹⁹ Such restrictions could be applicable to state actions occurring in a national forest.⁵⁰⁰ However, the 2012 Planning Rule states that plans do not themselves regulate uses by the public, such as hunting and fishing.⁵⁰¹

ii. Wildlife and Special Use Authorization

Several wildlife conflicts playing out in the national forests involve the question of whether or not USFS should authorize a wildlife-focused action by a nonfederal actor. For example, states may be engaged in introducing new species on national forest lands, or limiting or removing species that are undesirable from the state's perspective. Questions may arise about USFS's role in these state actions and the applicability of federal law to them.

USFS implements forest plans by authorizing specific uses that promote achievement of the desired outcomes, such as plant and animal diversity and viable populations.⁵⁰² It may also authorize activities that would not necessarily promote these outcomes.⁵⁰³ This is often the case with requests for special use authorizations by applicants for permits, which could include state and local governments.⁵⁰⁴ A forest plan may include mandatory requirements (e.g., standards or guidelines) applicable to the issuance of such permits.⁵⁰⁵

The objective of the USFS special uses program is to “[a]uthorize and manage special uses of National Forest System lands in a manner which protects natural resources and public health and safety, consistent with [forest plans].”⁵⁰⁶ Permits may be granted only if “[t]he proposed use cannot reasonably be accommodated on non-National Forest System lands.”⁵⁰⁷

Almost all uses of NFS lands, improvements, and resources are designated “special uses.”⁵⁰⁸ Wildlife management activities on national

⁴⁹⁹ *See id.*

⁵⁰⁰ A conflict between a state action and NFMA's diversity requirement could possibly arise where a state game species is considered at-risk by USFS. This is the case for bighorn sheep, where the State of Wyoming passed a law authorizing removal of bighorn sheep if USFS were to eliminate domestic sheep grazing. WYO. STAT. ANN. § 11-19-604(e) (2017); *see also* Idaho Wool Growers Ass'n v. Vilsack, 7 F. Supp. 3d 1085, 1092 (D. Idaho 2014) (finding USFS's forest plan “committed ‘no clear error in judgment’” by reducing domestic sheep grazing in order to prevent disease transmission to bighorn sheep), *aff'd*, 816 F.3d 1095 (9th Cir. 2016).

⁵⁰¹ 36 C.F.R. § 219.2(b)(2) (2016). A forest plan direction to limit public uses must be implemented by a closure order, pursuant to *id.* § 261.50, and may include special closures to protect wildlife pursuant to *id.* § 261.53(a).

⁵⁰² *Id.* § 219.9.

⁵⁰³ *Id.* § 219.9(b)(2).

⁵⁰⁴ *Id.* § 251.50(a).

⁵⁰⁵ *Id.* § 251.52.

⁵⁰⁶ FSM § 2702 (2011).

⁵⁰⁷ *Id.* § 2703.2(2)(b).

⁵⁰⁸ 36 C.F.R. § 251.50(a), (e) (some uses are not considered “special uses” because they are regulated by separate authorities); *see also* FSM § 2701.1 (listing the various authorities for different kinds of special uses).

forests by nonfederal parties would be considered special uses.⁵⁰⁹ Before conducting a special use, individuals or entities must obtain a special use authorization from the authorized officer, unless that requirement is waived by regulation.⁵¹⁰ There is no waiver provision that necessarily allows state actions taken on NFS lands without a permit. A special use authorization is normally not required for hunting or fishing.⁵¹¹ However, USFS may manage public recreation of any kind by issuing a closure order.⁵¹²

iii. Coordination with State and Local Governments

NFMA includes a requirement to coordinate with the land and resource management planning processes of state and local governments in the development of forest plans.⁵¹³ The 2012 Planning Rule requires review of the planning and land use policies of state and local governments, consideration of the objectives of these policies, and opportunities to reduce conflicts.⁵¹⁴ However, it explicitly does not permit the responsible USFS official to “conform the management to meet non-[USFS] objectives or policies.”⁵¹⁵

The 2012 Planning Rule also requires the official responsible for forest planning to “encourage States, counties, and other local governments to seek cooperating agency status in the NEPA process for development, amendment, or revision of a plan.”⁵¹⁶ The role of such cooperating agencies is to assist in the environmental review process.⁵¹⁷ NEPA also includes a requirement to “cooperate with State and local agencies to the fullest extent possible to reduce duplication between NEPA and State and local requirements.”⁵¹⁸ In addition, NEPA documents must identify any inconsistencies with state and local plans or laws, and “describe the extent to which the agency would reconcile its proposed action with the plan or

⁵⁰⁹ 36 C.F.R. § 251.50(a).

⁵¹⁰ *Id.* § 251.50(c)–(e) (the requirement for a special use permit is waived for most noncommercial recreational activities not involving a large organized group, most forms of travel on NFS roads, uses with nominal effects, and uses regulated by a state agency or another federal agency in a manner that adequately protects national forest lands and resources).

⁵¹¹ *Id.* § 251.50(c).

⁵¹² *Id.* § 261.50; *see also id.* § 261.70(a)(4) (among other reasons, closure orders are authorized for the “[p]rotection of threatened, endangered, rare, unique, or vanishing species of plants, animals, birds or fish, or special biological communities”).

⁵¹³ *See* NFMA, 16 U.S.C. § 1604(a) (2012) (providing that, “as appropriate,” forest plan revisions should be “coordinated with the land and resource management planning processes of State and local governments and other Federal agencies”); *see also* 36 C.F.R. § 219.4(b)(1) (requiring NFMA officials to coordinate with the “equivalent and related planning efforts” of Tribes, agencies, and state and local governments).

⁵¹⁴ 36 C.F.R. § 219.4(b)(2).

⁵¹⁵ *Id.* § 219.4(b)(3); *see, e.g.*, Letter from USDA Forest Serv., Intermountain Region, to Matt Mead, Governor of Wyo. (Feb. 20, 2015) (on file with authors) (Bridger-Teton National Forest refused to “adopt” a Wyoming plan for bighorn sheep, describing it only as “a valuable framework”).

⁵¹⁶ 36 C.F.R. § 219.4(a)(1)(iv).

⁵¹⁷ *Id.* § 219.4(a)–(b).

⁵¹⁸ 40 C.F.R. §§ 1501.6, 1506.2(b) (2016).

law.”⁵¹⁹ There is no general NEPA requirement to coordinate decision-making processes or for USFS decisions to be consistent with state plans.

In conclusion, although it is clear that USFS must coordinate the development of LRMPs with tribal, state, and local governments, this coordination requirement does not give such nonfederal entities equal footing in managing NFS lands, nor does it require USFS to act and manage NFS lands consistent with these nonfederal plans.

d. U.S. Forest Service Cooperation in Wildlife Management

Federal regulations applicable to USFS require cooperation among wildlife management agencies:

The Chief of [USFS], through the Regional Foresters and Forest Supervisors, shall determine the extent to which national forests or portions thereof may be devoted to wildlife protection in combination with other uses and services of the national forests, and, in cooperation with the Fish and Game Department or other constituted authority of the State concerned, he will formulate plans for securing and maintaining desirable populations of wildlife species, and he may enter into such general or specific cooperative agreements with appropriate State officials as are necessary and desirable for such purposes. Officials of [USFS] will cooperate with State game officials in the planned and orderly removal in accordance with the requirements of State laws of the crop of game, fish, fur-bearers, and other wildlife on national forest lands.⁵²⁰

USFS directives provide additional coordination guidance.⁵²¹ In particular, they require development of a written Memorandum of Understanding with each state involving policies or procedural matters.⁵²²

Hunting, fishing, and trapping on NFS lands are subject to state fish and wildlife laws and regulations, unless those regulations conflict with federal laws or they would permit activities that conflict with land and resource management responsibilities of USFS or that are inconsistent with direction in forest plans.⁵²³ Memorandums with state fish and wildlife agencies must

⁵¹⁹ *Id.* § 1506.2(d) (“To better integrate environmental impact statements into State or local planning processes, statements shall discuss any inconsistency of a proposed action with any approved State or local plan and laws (whether or not federally sanctioned). Where an inconsistency exists, the statement should describe the extent to which the agency would reconcile its proposed action with the plan or law.”).

⁵²⁰ 36 C.F.R. § 241.2.

⁵²¹ *See* FSM § 2671.1 (2005).

⁵²² *Id.* § 2611.1 (1990).

⁵²³ *Id.* § 2643.1 (1995); *see, e.g., Meister v. U.S. Dep’t of Agric.*, 623 F.3d 363, 379–80 (6th Cir. 2010) (stating that it is not beyond USFS’s authority to consider using a forest plan to prohibit gun hunting in areas to be managed for non-motorized recreation); *La. Sportsmen All. v. Vilsack*, 984 F. Supp. 2d 600, 611 (W.D. La. 2013) (holding that a forest plan may prohibit hunting deer with dogs to reduce conflicting uses), *rev’d on other grounds*, 583 F. App’x 379 (5th Cir. 2014); *Ctr. for Biological Diversity v. U.S. Forest Serv.*, No. CV–12–8176–PCT–SMM, 2013 WL 3335234,

“recognize the role of [USFS] in cooperating in the development of State fish and wildlife laws and regulations, especially those addressing hunting, fishing, and trapping as they would apply to occupancy and use of National Forest System lands.”⁵²⁴

“Introductions or stocking of species may be made to restore resources following environmental changes, [and] to provide recreation opportunities where reproduction is insufficient to meet demand.”⁵²⁵ Authority is also provided to “restore locally extinct indigenous species, to recover threatened and endangered species, and to introduce new species in coordination with State and Federal agencies.”⁵²⁶ A prior joint agreement with appropriate state fish and wildlife agencies is needed for any introductions.⁵²⁷ “Such MOU’s must document agreements on each fish and wildlife translocation project and appropriate environmental documentation.”⁵²⁸ When stocking and reintroductions occur, USFS “has the responsibility to prevent damage to resources occurring on [NFS] lands” and comply with the ESA and Wilderness Act.⁵²⁹

State cooperative agreements are found in MOUs that are appended to the USFS Manual as regional supplements that pertain to the states found in each region. For example, an MOU between Idaho and USFS commits USFS to considering state goals when developing its forest plans.⁵³⁰ It also recognizes that special use permits may be needed for some state actions on federal lands.⁵³¹ The MOU requires prior consultation (but not permission) for use of chemicals and for transplants or introductions of wildlife or fish “with sufficient lead time to permit joint field investigations regarding the effects of such programs on National Forest System lands.”⁵³² It also contains a savings clause regarding state and federal authorities.⁵³³

e. Special Designated Areas Managed by the U.S. Forest Service

The laws and regulations reviewed above generally apply throughout the NFS, but the System also includes special areas, designated by Congress or the President, that may include additional authority and direction for

*3 (D. Ariz. July 2, 2013) (determining that USFS has authority to regulate the use of lead bullets to protect California condors), *rev’d on other grounds*, 640 F. App’x 617 (9th Cir. 2016).

⁵²⁴ FSM § 2643.

⁵²⁵ *Id.* § 2640.3(3); *see also* Exec. Order No. 11,987, 3 C.F.R. § 116 (1977) (generally restricting federal agencies from introducing exotic species to lands they administer and encouraging the prevention of introductions by other levels of government and by private citizens).

⁵²⁶ FSM § 2640.3. “The State has the responsibility to make the determination as to which wildlife and fish species are native or indigenous.” *Id.* § 2641.

⁵²⁷ *Id.* §§ 2640.41–.42.

⁵²⁸ *Id.* § 2641.

⁵²⁹ *Id.*

⁵³⁰ *Id.* § 1561.2(A)(3) (1994).

⁵³¹ *Id.* § 1561.2(A)(6)–(7).

⁵³² *Id.* § 1561.2(B)(6)–(8).

⁵³³ *Id.* § 1561.2(C)(12).

managing wildlife. These include an assortment of USFS-administered national recreation areas, conservation areas, and other specially designated landscapes.⁵³⁴ These include national monuments that are established by the President using the Antiquities Act.⁵³⁵ A recent national monument established on NFS lands (which also includes BLM lands) is the Sand to Snow National Monument in California.⁵³⁶ President Obama's Proclamation establishing the monument emphasizes the area's "remarkable species richness that makes it one of the most biodiverse areas in southern California," that it "is home to 12 federally listed threatened and endangered animal species" and "frequented by over 240 species of birds," and that the area's "intersection of mountains makes th[e] area a critical bridge for wildlife traversing the high elevations of southern California's desert landscape."⁵³⁷ The Proclamation orders USFS and BLM to use "their respective applicable legal authorities" to implement these wildlife-focused purposes of the national monument and includes a savings clause stating that the Proclamation does nothing "to enlarge or diminish the jurisdiction of the State of California, including its jurisdiction and authority with respect to fish and wildlife management."⁵³⁸

5. Public Lands Managed by the Bureau of Land Management

a. Federal Land Policy Management Act (1976)

Of most relevance to wildlife on public lands managed by BLM is the Federal Land Policy Management Act of 1976. FLPMA is considered to be BLM's Organic Act because it consolidated and articulated the agency's mission and management responsibilities.⁵³⁹ Its full history is beyond the purview of this Article, but it is commonly recognized that the Act was designed, in part, to correct the agency's historic practice of prioritizing livestock grazing and mining as the dominant uses of public lands.⁵⁴⁰ In FLPMA, Congress declared that fish and wildlife values were to be balanced with other resources and uses of the public lands, and expressed a policy that:

⁵³⁴ For a comprehensive listing of "special recreation and conservation overlays," see GEORGE CAMERON COGGINS ET AL., FEDERAL PUBLIC LAND AND RESOURCES LAW 946–47 (6th ed. 2007); NAT. RES. LAW CTR., PROTECTIVE DESIGNATIONS ON FEDERAL LANDS: CASE STUDIES OF NATIONAL CONSERVATION AREAS, NATIONAL MONUMENTS, NATIONAL PARKS, NATIONAL RECREATION AREAS, AND WILDERNESS AREAS 2 (2004); Martin Nie & Michael Fiebig, *Managing the National Forests Through Place-Based Legislation*, 37 *ECOLOGY L.Q.* 1, 15–23 (2010).

⁵³⁵ Antiquities Act of 1906, 54 U.S.C. §§ 320301–320303 (Supp. III 2016); see *id.* § 320301.

⁵³⁶ Proclamation No. 9396, 81 Fed. Reg. 8379 (Feb. 18, 2016).

⁵³⁷ *Id.* at 8380.

⁵³⁸ *Id.* at 8382–83.

⁵³⁹ See DEBRA L. DONAHUE, THE WESTERN RANGE REVISITED: REMOVING LIVESTOCK FROM PUBLIC LANDS TO CONSERVE NATIVE BIODIVERSITY 203 (1999); JAMES R. SKILLEN, THE NATION'S LARGEST LANDLORD: THE BUREAU OF LAND MANAGEMENT IN THE AMERICAN WEST 102 (2009).

⁵⁴⁰ See DONAHUE, *supra* note 539, at 206–07; SKILLEN, *supra* note 539, at 102–03.

[T]he public lands be managed in a manner that will protect the quality of scientific, scenic, historical, ecological, environmental, air and atmospheric, water resource, and archeological values; that, where appropriate, will preserve and protect certain public lands in their natural condition; that will provide food and habitat for fish and wildlife and domestic animals; and that will provide for outdoor recreation and human occupancy and use.⁵⁴¹

FLPMA also codified a multiple-use mandate,⁵⁴² which is defined as follows:

[T]he management of the public lands and their various resource values so that they are utilized in the combination that will best meet the present and future needs of the American people; making the most judicious use of the land for some or all of these resources or related services over areas large enough to provide sufficient latitude for periodic adjustments in use to conform to changing needs and conditions; the use of some land for less than all of the resources; a combination of balanced and diverse resource uses that takes into account the long-term needs of future generations for renewable and nonrenewable resources, including, but not limited to, recreation, range, timber, minerals, watershed, *wildlife and fish*, and natural scenic, scientific and historical values; and harmonious and coordinated management of the various resources without permanent impairment of the productivity of the land and the quality of the environment with consideration being given to the relative values of the resources and not necessarily to the combination of uses that will give the greatest economic return or the greatest unit output.⁵⁴³

Three components of this definition are essential to understanding BLM's multiple-use mandate. First, it means that some lands may be used for less than all of the possible resources and values present in an area. In fact, some land may be used for only one resource or value. Second, "multiple use" means that some lands may be used for purposes that do not return the greatest profit to individuals, corporations, or federal, state, or local governments. Third, the diverse resources for which BLM is given direction to manage include "wildlife and fish," and not just fish and wildlife *habitat*. We return to this issue in Part IV.A.

Similar to other federal land laws, Congress recognized the national interest in these public lands and wanted their management to be based on a systematic inventory and an informed land use planning process. To this end, FLPMA requires the preparation of resource management plans.⁵⁴⁴ In preparing these plans, the agency must consider such things as the "present and potential uses of the public lands[,] . . . the relative scarcity of the values involved," to "rely, to the extent it is available, on the inventory of the public

⁵⁴¹ 43 U.S.C. § 1701(a)(8).

⁵⁴² Congress first codified a multiple-use management for BLM in the Classification and Multiple Use Act of 1964, 43 U.S.C. §§ 1411–1418 (1970) (omitted as obsolete in 1976).

⁵⁴³ 43 U.S.C. § 1702(c) (2012) (emphasis added).

⁵⁴⁴ *Id.* § 1712.

lands, their resources, and others values,” and “weigh long-term benefits to the public against short-term benefits.”⁵⁴⁵

As in the case of the national forests, the multiple-use mandate given to BLM provides a great deal of agency discretion.⁵⁴⁶ But this discretion is not boundless. The agency violates FLPMA if it fails to “engage in any reasoned or informed decisionmaking process” concerning the implementation of multiple use.⁵⁴⁷ FLPMA’s multiple-use mandate is also bounded by two additional provisions of FLPMA: 1) the requirement to avoid “permanent impairment . . . [to] the quality of the environment,”⁵⁴⁸ and 2) the requirement that the Secretary of Interior (and hence BLM) must “take any action necessary to prevent unnecessary or undue degradation of the lands.”⁵⁴⁹

i. Areas of Critical Environmental Concern

FLPMA requires BLM’s land use planning process to “give priority to the designation and protection of areas of critical environmental concern” (ACECs).⁵⁵⁰ As defined in FLPMA:

The term “areas of critical environmental concern” means areas within the public lands where special management attention is required (when such areas are developed or used or where no development is required) to protect and prevent irreparable damage to important historic, cultural, or scenic values, *fish and wildlife resources* or other natural systems or processes, or to protect life and safety from natural hazards.⁵⁵¹

This is a unique provision in federal land law. ACECs are often designated because of the fish and wildlife values associated with them.⁵⁵² Congress, in unambiguous fashion, ordered the agency to *prioritize* the designation and protection of ACECs.⁵⁵³ This means that BLM should be giving ACECs priority for consideration in the planning process and extra

⁵⁴⁵ *Id.* § 1712(c)(4)–(7).

⁵⁴⁶ *See, e.g.*, Nat. Res. Def. Council, Inc. v. Hodel, 624 F. Supp. 1045, 1058 (D. Nev. 1985), *aff’d*, 819 F.2d 927 (9th Cir. 1987).

⁵⁴⁷ Nat’l Wildlife Fed’n, 140 Interior Dec. 85, 101 (IBLA 1997). For a more complete history of this case and its implications for multiple use, see generally Joseph M. Feller, *The Comb Wash Case: The Rule of Law Comes to the Public Rangelands*, 17 PUB. LAND & RESOURCES L. REV. 25 (1996).

⁵⁴⁸ 43 U.S.C. § 1702(c).

⁵⁴⁹ *Id.* § 1732(b). *See generally* Roger Flynn, *Daybreak on the Land: The Coming of Age of the Federal Land Policy and Management Act of 1976*, 29 VT. L. REV. 815 (2005) (reviewing the application of this provision as it relates to water, mining, and property rights).

⁵⁵⁰ 43 U.S.C. § 1712(c)(3).

⁵⁵¹ *Id.* § 1702(a) (emphasis added).

⁵⁵² Karin P. Sheldon & Pamela Baldwin, *Areas of Critical Environmental Concern: FLPMA’s Unfulfilled Conservation Mandate*, 28 COLO. NAT. RESOURCES ENERGY & ENVTL. L. REV. 1, 28 (2017).

⁵⁵³ Debra L. Donahue, *Federal Rangeland Policy: Perverting Law and Jeopardizing Ecosystem Services*, 22 J. LAND USE & ENVTL. L. 299, 337–38 (2007).

weight in decision making.⁵⁵⁴ As summarized in a recent study: “The legislative history of FLPMA establishes Congress’ clear intent to provide for special protection of ACECs and to direct BLM to accord priority for that protection over other multiple uses in the agency’s inventory, land designation and planning activities.”⁵⁵⁵ The study finds that such prioritization has not taken place and recommends a number of steps be taken to meet FLPMA’s mandate. This includes “restor[ing] the visibility and effectiveness of ACECs”—in BLM regulations, policy guidance, and budget justifications—and providing them “the heightened level of protection required by FLPMA.”⁵⁵⁶

ii. Bureau of Land Management Regulation and Policy

Three provisions are of particular importance to wildlife management on public lands managed by BLM. The first is the “fundamentals of rangeland health” regulation that requires standards and guidelines to be developed by BLM, including those focused on wildlife habitat.⁵⁵⁷ The regulation requires that “[h]abitats are, or are making significant progress toward being, restored or maintained for Federal threatened and endangered species, Federal proposed or candidate threatened and endangered species, and other special status species.”⁵⁵⁸

The second is found in the BLM Manual for management of “special status species.”⁵⁵⁹ This policy was written pursuant to FLPMA, the ESA, and other laws.⁵⁶⁰ BLM special status species are defined as: “(1) species listed or proposed for listing under the [ESA], and (2) species requiring special management consideration to promote their conservation and reduce the likelihood and need for future listing under the ESA.”⁵⁶¹ The objectives of the policy are “[t]o conserve and/or recover ESA-listed species and the ecosystems on which they depend so that ESA protections are no longer needed for these species,” and “[t]o initiate proactive conservation measures that reduce or eliminate threats to Bureau sensitive species to minimize the likelihood of and need for listing of these species under the ESA.”⁵⁶² Candidate species for ESA listing are included in BLM’s sensitive species category.⁵⁶³ Furthermore, BLM must address “Bureau sensitive species and their habitats in land use plans and associated NEPA documents.”⁵⁶⁴ With

⁵⁵⁴ See *id.* (noting that Congress repeatedly emphasized the “priority” to be given to ACECs).

⁵⁵⁵ Sheldon & Baldwin, *supra* note 552, at 5.

⁵⁵⁶ *Id.* at 61, 63.

⁵⁵⁷ 43 C.F.R. § 4180.1 (2016).

⁵⁵⁸ *Id.* § 4180.1(d).

⁵⁵⁹ BUREAU OF LAND MGMT., MANUAL TRANSMITTAL SHEET: 6840—SPECIAL STATUS SPECIES MANAGEMENT (2008), <https://perma.cc/ME8D-HBTM>.

⁵⁶⁰ *Id.* § 6840.03.

⁵⁶¹ *Id.* § 6840.01.

⁵⁶² *Id.* § 6840.02.

⁵⁶³ *Id.* § 6840.01; see also *id.* at Glossary 5.

⁵⁶⁴ *Id.* § 6840.2A1(B).

respect to implementation-level planning, BLM “should consider all site-specific methods and procedures needed to bring species and their habitats to the condition under which management under the Bureau sensitive species policies would no longer be necessary.”⁵⁶⁵

The third regulation pertains to the issuance of special recreation permits. Wildlife is implicated when it is the object of a commercial or competitive event.⁵⁶⁶ BLM is obligated to regulate the use and occupancy of public lands,⁵⁶⁷ and its regulations and policy require special recreation permits for “commercial use, organized group activities or events, competitive use, and for use of special areas.”⁵⁶⁸ Discretion is provided to the agency over whether to issue a permit based on the following factors:

- (a) Conformance with laws and land use plans,⁵⁶⁹
- (b) Public safety,
- (c) Conflicts with other uses,
- (d) Resource protection,
- (e) The public interest served,
- (f) Whether in the past [the applicant] complied with the terms of [the] permit or other authorization from BLM and other agencies, and
- (g) Such other information that BLM finds appropriate.⁵⁷⁰

BLM may also impose stipulations and conditions on the permit “to meet management goals and objectives and to protect lands and resources and the public interest.”⁵⁷¹

⁵⁶⁵ *Id.*

⁵⁶⁶ 43 C.F.R. § 2932.11 (2016) (“[Y]ou must obtain a Special Recreation Permit for: (1) Commercial use, including vending associated with recreational use; or (2) Competitive use.”); *see also id.* § 2932.14(b) (“Outfitters and guides providing services to hunters, trappers, or anglers must obtain Special Recreation Permits from BLM. Competitive event operators and organized groups may also need a Special Recreation Permit for these activities.”).

⁵⁶⁷ FLPMA, 43 U.S.C. § 1732(b) (2012).

⁵⁶⁸ 43 C.F.R. § 2931.2. A competitive use is defined as “[a]ny organized, sanctioned, or structured use, event, or activity on public land in which 2 or more contestants compete” and either register, enter, or apply for the event and/or use a “predetermined course or area.” *Id.* § 2932.5. Commercial use means “recreational use of the public lands and related waters for business or financial gain,” and the activity, service, or use is commercial if “[a]ny person, group, or organization makes or attempts to make a profit, receive money, amortize equipment, or obtain goods or services, as compensation from participants in recreational activities occurring on public lands led, sponsored, or organized by that person, group, or organization.” *Id.*

⁵⁶⁹ Permits must be consistent with the applicable resource management plan for the area. *See* 43 U.S.C. § 1732(a); 43 C.F.R. § 1610.5–3(a).

⁵⁷⁰ 43 C.F.R. § 2932.26.

⁵⁷¹ *Id.* § 2932.41.

b. The National Landscape Conservation System

BLM is also tasked with managing units within the National Landscape Conservation System (NLCS).⁵⁷² NLCS includes BLM-administered national conservation areas (NCAs) and similar designations, national monuments, and wilderness study areas, and provides direction, either through statute or presidential proclamation, in how to manage individual units.⁵⁷³ It is beyond the scope of this Article to review the full extent and diversity of the NLCS. Importantly, however, most conservation areas and monuments managed by BLM include special provisions, going beyond FLPMA, that pertain to wildlife management and the biological values associated with the designations. For example, a purpose declared by Congress in establishing the Morley Nelson Snake River Birds of Prey NCA in Idaho is to “provide for the conservation, protection, and enhancement of raptor populations and habitats and the natural and environmental resources and values associated therewith.”⁵⁷⁴ Many of these laws also include wildlife savings clauses, some simply stating that nothing in the designation “shall be deemed to enlarge or diminish the jurisdiction” of the state “with respect to fish and wildlife management.”⁵⁷⁵ In 2009, Congress formally recognized and established the NLCS and provided another wildlife-specific savings clause that would serve as a backup if the enabling legislation was silent on the matter.⁵⁷⁶

c. Federal-State Interactions

FLPMA includes a provision encouraging the coordination and consistency of federal and state land use plans:

[T]o the extent consistent with the laws governing the administration of the public lands, coordinate the land use inventory, planning, and management

⁵⁷² 16 U.S.C. § 7202(c) (2012).

⁵⁷³ *Id.* § 7202(b). BLM manages roughly 4.1 million acres of NCAs and lands with similar designations, and roughly 9.5 million acres of national monuments. BUREAU OF LAND MGMT., NATIONAL LANDSCAPE CONSERVATION SYSTEM: NATIONAL CONSERVATION AREAS AND SIMILAR DESIGNATIONS, <https://perma.cc/XYV3-H4UZ> (last updated Oct. 2016); BUREAU OF LAND MGMT., NATIONAL LANDSCAPE CONSERVATION SYSTEM: NATIONAL MONUMENTS, <https://perma.cc/8F7Y-6CNV> (last updated Jan. 2017). Federal wilderness areas are also included in the NLCS, and we address those areas in Part III.B.7.

⁵⁷⁴ 16 U.S.C. § 460iii-2(a)(2).

⁵⁷⁵ *E.g.*, Proclamation No. 7398, 66 Fed. Reg. 7359, 7361 (Jan. 22, 2001).

⁵⁷⁶ Omnibus Public Land Management Act of 2009, Pub. L. No. 111-11, 123 Stat. 991 (codified as amended in scattered sections of 7, 16, 33, 36, 42, and 43 U.S.C.)

“Nothing in this chapter shall be construed as affecting the authority, jurisdiction, or responsibility of the several States to manage, control, or regulate fish and resident wildlife under State law or regulations, including the regulation of hunting, fishing, trapping and recreational shooting on public land managed by the Bureau of Land Management. Nothing in this chapter shall be construed as limiting access for hunting, fishing, trapping, or recreational shooting.”

16 U.S.C. § 7202(d)(2).

activities of or for such lands with the land use planning and management programs of other Federal departments and agencies and of the States and local governments within which the lands are located In implementing this directive, the Secretary shall, to the extent he finds practical, keep apprised of State, local, and tribal land use plans; assure that consideration is given to those State, local, and tribal plans that are germane in the development of land use plans for public lands; assist in resolving, to the extent practical, inconsistencies between Federal and non-Federal Government plans, and shall provide for meaningful public involvement of State and local government officials, both elected and appointed, in the development of land use programs, land use regulations, and land use decisions for public lands, including early public notice of proposed decisions which may have a significant impact on non-Federal lands. Such officials in each State are authorized to furnish advice to the Secretary with respect to the development and revision of land use plans, land use guidelines, land use rules, and land use regulations for the public lands within such State and with respect to such other land use matters as may be referred to them by him. Land use plans of the Secretary under this section *shall be consistent with State and local plans to the maximum extent he finds consistent with Federal law and the purposes of this Act.*⁵⁷⁷

This provision provides state governors the opportunity to advise BLM of their positions on draft land use plans. BLM must consider this advice in so-called “consistency reviews.”⁵⁷⁸

In short, there are several engagement points for state and local governments to participate in the land use planning process and multiple responsibilities on the part of BLM to respond to state and local concerns. But this entire process is conditioned on federal primacy: that priority be given to federal law and purposes in the land use planning processes. We return to this provision in Part IV.F, as we believe the coordination/consistency provisions of FLPMA provide a constructive opportunity for federal and state governments to plan for the management and conservation of wildlife across political jurisdictions.

FLPMA’s savings clause pertaining to wildlife provides additional direction on federal-state interactions regarding wildlife management:

That nothing in this Act shall be construed as authorizing the Secretary concerned to require Federal permits to hunt and fish on public lands or on lands in the National Forest System and adjacent waters or as enlarging or diminishing the responsibility and authority of the States for management of fish and resident wildlife. However, the Secretary concerned may designate areas of public land and of lands in the National Forest System where, and establish periods when, no hunting or fishing will be permitted for reasons of

⁵⁷⁷ 43 U.S.C. § 1712(c)(9) (2012) (emphasis added).

⁵⁷⁸ Resource Management Planning, 81 Fed. Reg. 89,580, 89,666 (Dec. 12, 2016) (to be codified at 43 C.F.R. § 1610.3–3); see *New Mexico ex rel. Richardson v. Bureau of Land Mgmt.*, 565 F.3d 683, 721 (10th Cir. 2009) (“A meaningful opportunity to comment is all the regulation requires.”); *W. Expl., LLC v. U.S. Dep’t of the Interior*, No. 3:15-cv-00491-MMD-VPC, 2017 WL 1237971, at *16 (D. Nev. Mar. 31, 2017) (“The statute and regulations are silent on how detailed or specific BLM needs to be,” and that BLM met its obligation to resolve inconsistencies between local plans and federal sage grouse plans “to the extent practical.”).

public safety, *administration, or compliance with provisions of applicable law.* Except in emergencies, any regulations of the Secretary concerned relating to hunting and fishing pursuant to this section shall be put into effect only after consultation with the appropriate State fish and game department. Nothing in this Act shall modify or change any provision of Federal law relating to migratory birds or to endangered or threatened species.⁵⁷⁹

This provision was at the center of a dispute involving a proposed wolf hunt on federal lands by the State of Alaska. In *Alaska v. Andrus*,⁵⁸⁰ the United States District Court for the District of Alaska found that this provision of FLPMA, along with the multiple-use mandate, “taken together clearly provide the Secretary with the power to halt the wolf hunt.”⁵⁸¹ Furthermore, said the court, under the power of “[a]dministration,’ the Secretary is commanded to manage the public lands under principles of multiple use [and m]ultiple use includes the management of wildlife.”⁵⁸² Although FLPMA grants authority to either permit or prohibit the wolf hunt, this authority, in and of itself, did not trigger NEPA when the agency failed to exercise it because there was no major federal action.⁵⁸³ The NEPA application question was at the heart of two circuit court reviews, both affirming that the non-exercise of power by the Secretary did not trigger NEPA, though the Ninth Circuit seemed to lament that it did “not reach the intriguing questions of statutory construction and application that would lurk in defining the Secretary’s power to supersede the State in managing wildlife.”⁵⁸⁴ We return to the questions unresolved by these courts in Part IV.D.

The Department of the Interior sought to provide more guidance on federal-state relationships through a policy statement in 1983.⁵⁸⁵ In essence, Department of Interior’s Policy simply recognizes some of the principles of wildlife federalism that we covered in Parts II and III.A of the Article, from states as trustees of wildlife to federal constitutional powers to manage

⁵⁷⁹ 43 U.S.C. § 1732(b) (emphasis added).

⁵⁸⁰ 429 F. Supp. 958 (D. Alaska 1977), *aff’d*, 591 F.2d 537 (9th Cir. 1979).

⁵⁸¹ *Id.* at 961–62.

⁵⁸² *Id.* at 962.

⁵⁸³ *Id.* at 963; *see* NEPA, 42 U.S.C. § 4332(c) (2012); COGGINS & GLICKSMAN, *supra* note 124, § 17:16 (noting that “[i]f federal and state projects are sufficiently interrelated to constitute a single ‘federal action’ for NEPA purposes, state agencies may be enjoined for NEPA violations”).

⁵⁸⁴ *Alaska v. Andrus*, 591 F.2d 537, 538 (9th Cir. 1979). The District of Columbia Circuit reached the same conclusion regarding NEPA, but used language in dicta that was relatively favorable to the state’s authority to manage wildlife. *See* *Defs. of Wildlife v. Andrus*, 627 F.2d 1238, 1250 (D.C. Cir. 1980) (“We are simply unable to read [FLPMA’s] cautious and limited permission to intervene in an area of state responsibility and authority as imposing such supervisory duties on the Secretary that each state action he fails to prevent becomes a ‘Federal action.’”).

⁵⁸⁵ Department of the Interior Fish and Wildlife Policy; State-Federal Relationships, 48 Fed. Reg. 11,642, 11,642 (Mar. 18, 1983) (to be codified at 43 C.F.R. pt. 24). Although the Policy appears in the C.F.R. “as a matter of convenience to the public,” *id.*, it was not subject to the rulemaking requirements of the Administrative Procedure Act, 5 U.S.C. § 553 (2012), and as such does not carry the force of law. *Christensen v. Harris County*, 529 U.S. 576, 587 (2000).

wildlife. For example, the Policy states that “[f]ederal authority exists for specified purposes while State authority regarding fish and resident wildlife remains the comprehensive backdrop applicable in the absence of specific, overriding Federal Law.”⁵⁸⁶

The Policy goes further than these fundamental principles of federalism, however, by stating that it is intended “to reaffirm the basic role of the States in fish and resident wildlife management, especially where States have primary authority and responsibility, and to foster improved conservation of fish and wildlife.”⁵⁸⁷ In other sections, the Policy recognizes that “[s]tate jurisdiction remains concurrent with Federal authority,”⁵⁸⁸ and asserts that, in passing FLPMA, Congress “recognized and reaffirmed the primary authority and responsibility of the States for management of fish and resident wildlife on such lands.”⁵⁸⁹ While the Policy does acknowledge basic constitutional principles pertaining to the Property Clause, Commerce Clause, federal preemption, and treaty-making powers,⁵⁹⁰ it also makes the often-repeated assertion that BLM “has custody of the land itself and the habitat upon which fish and resident wildlife are dependent” and that “[m]anagement of the habitat is a responsibility of the Federal Government,”⁵⁹¹ thereby implying that BLM only has power over the land and not the wildlife that inhabit it.

In Part IV.C, we explain the fundamental problems with the Department of Interior’s Policy on federal-state relationships and discuss the implications resulting from this problematic interpretation of law.

6. *The Special Case of Alaska*

a. Alaska National Interest Lands Conservation Act

Alaska presents a unique situation within the federal public lands system. Alaska includes all of the same land categories and federal laws that exist elsewhere in the country. However, federal land managers in Alaska must also contend with the Alaska National Interest Lands Conservation Act⁵⁹² (ANILCA), which creates new land categories⁵⁹³ and statutory exceptions⁵⁹⁴ that do not exist elsewhere, as well as an overarching system of subsistence management which adds an additional management

⁵⁸⁶ 43 C.F.R. § 24.1(a) (2016).

⁵⁸⁷ *Id.* § 24.2(a).

⁵⁸⁸ *Id.* § 24.3(c).

⁵⁸⁹ *Id.* § 24.4(c).

⁵⁹⁰ *Id.* § 24.3.

⁵⁹¹ *Id.* § 24.4(d).

⁵⁹² 16 U.S.C. §§ 3101–3233 (2012).

⁵⁹³ *See, e.g., id.* § 3201 (establishing National Preserves, a subcategory of National Park Lands on which sport hunting is permitted); *id.* § 410hh-2.

⁵⁹⁴ Such as exceptions to the prohibitions laid out by the Wilderness Act. For instance, snow machine use, which is banned as mechanized transport in every other state, is permitted in Alaska Wilderness Areas where that use was established before the creation of the Wilderness Area. *See id.* §§ 3121(a)–(b), 3170(a), 3171(a).

mission/goal to nearly all federal lands in Alaska.⁵⁹⁵ In *Sturgeon v. Frost*,⁵⁹⁶ the Supreme Court explicitly acknowledged this unusual status, stating that “ANILCA repeatedly recognizes that Alaska is different . . . [And] ANILCA itself accordingly carves out numerous Alaska-specific exceptions.”⁵⁹⁷

i. Subsistence

It is the subsistence requirement that is the single biggest difference between managing wildlife on federal lands in Alaska and managing them in the rest of the country. ANILCA is the establishment legislation for nearly every federal conservation unit in the state.⁵⁹⁸ This creates an opportunity for uniformity in management strategy across agencies and conservation units that could not exist elsewhere in the country where units were set aside in a more haphazard manner. Taking advantage of that opportunity, ANILCA establishes that subsistence shall be permitted on all federal lands with few exceptions,⁵⁹⁹ and creates a subsistence preference that applies to rural Alaskans that grants them a priority position in relation to other consumptive users of fish and game.⁶⁰⁰

Subsistence is defined by ANILCA as “the customary and traditional uses by rural Alaska residents of wild, renewable resources for direct personal or family consumption.”⁶⁰¹ More colloquially, it refers to rural hunting, fishing, and gathering of resources for personal use.⁶⁰² When ANILCA was originally passed, the intent of the statute was for the state to administer the subsistence hunting program (like all other hunting programs) on federal lands, and merely required that the state abide by ANILCA’s requirements.⁶⁰³ It soon became clear, however, that the state could not implement the rural subsistence preference because it violated the state’s constitutional requirement for equal access to fish and game, according the Alaska Supreme Court.⁶⁰⁴ Several efforts were made to amend the Alaska constitution so that the state could reclaim authority over all

⁵⁹⁵ See generally *id.* §§ 3111–3126 (establishing the overarching system of subsistence management under ANILCA).

⁵⁹⁶ 136 S. Ct. 1061 (2016).

⁵⁹⁷ *Id.* at 1070.

⁵⁹⁸ 16 U.S.C. §§ 410hh–410hh-1; *id.* §§ 460mm–460mm-2; *id.* § 539; ANILCA, Pub. L. No. 96-487, §§ 302–303, 94 Stat. 2371, 2385–93 (1980); *id.* §§ 601–603, 94 Stat. 2412–15; *id.* §§ 701–704, 94 Stat. 2371, 2417–19.

⁵⁹⁹ The exceptions are within the original boundaries of Denali National Park and Preserve and Glacier Bay National Park and Preserve, which were both expanded by ANILCA. 16 U.S.C. § 410hh-1(1), (3)(a).

⁶⁰⁰ See *id.* § 3112(2) (“[N]onwasteful subsistence uses of fish and wildlife and other renewable resources shall be the priority consumptive uses of all such resources on the public lands of Alaska.”).

⁶⁰¹ *Id.* § 3113.

⁶⁰² ANILCA states that “the situation in Alaska is unique in that, in most cases, no practical alternative means are available to replace the food supplies and other items gathered from fish and wildlife which supply rural residents dependent on subsistence uses.” *Id.* § 3111(2).

⁶⁰³ *Id.* § 3115(d).

⁶⁰⁴ *McDowell v. State*, 785 P.2d 1, 9 (Alaska 1989).

hunting, but those attempts were never successful.⁶⁰⁵ In 1990, the Federal Subsistence Board, which mirrors the functions of the state's Board of Game, was created, and the federal government began to assume control of subsistence hunting on federal lands.⁶⁰⁶

ANILCA instructs the agencies to manage subsistence "consistent with sound management principles, and the conservation of healthy populations of fish and wildlife," and "consistent with management of fish and wildlife in accordance with recognized scientific principles and the purposes for each unit."⁶⁰⁷ ANILCA also states that "[n]othing in this title shall be construed as . . . permitting the level of subsistence uses of fish and wildlife within a conservation system unit to be inconsistent with the conservation of healthy populations, and within a national park or monument to be inconsistent with the conservation of natural and healthy populations, of fish and wildlife."⁶⁰⁸ So the management standard for all federal public lands is the requirement to maintain healthy populations, but for national park lands, the requirement is to maintain natural and healthy populations of wildlife. Agencies must also evaluate the effect of all uses on public lands on subsistence uses and needs, and formally notify subsistence users if there could be any effects on subsistence harvests as a result of other uses.⁶⁰⁹

ii. Sport Hunting

Sport hunting (non-subsistence hunting) is permitted on most non-park lands in Alaska and is managed largely through the state regulatory process, as it is elsewhere in the United States.⁶¹⁰ However, ANILCA creates a new category of park lands called "Preserves" where sport hunting and commercial trapping are permitted.⁶¹¹ The State of Alaska regulates sport hunting statewide, including on federal lands.⁶¹² However, conflicts have arisen between the state's hunting regulations, which express the state's wildlife laws and goals, and the wildlife management goals expressed by several federal statutes. For instance, the State of Alaska is required to intensively manage wildlife populations in order to maximize a sustained yield of desirable prey (e.g., moose, caribou, and deer).⁶¹³ This intensive

⁶⁰⁵ FRANK NORRIS, ALASKA SUBSISTENCE: A NATIONAL PARK SERVICE MANAGEMENT HISTORY 162–63 (2002).

⁶⁰⁶ *Id.* at 165; Kyle Joly, Sanford P. Rabinowitch & Julie Lurman Joly, *Dual Management of Wildlife in Alaska: Making Federal Practice Align with Federal Mandates*, 32 GEORGE WRIGHT F. 18, 18 (2015).

⁶⁰⁷ 16 U.S.C. § 3112(1).

⁶⁰⁸ *Id.* § 3125(1).

⁶⁰⁹ *Id.* § 3120(a).

⁶¹⁰ *Id.* § 3202(c).

⁶¹¹ *Id.* §§ 410hh–2, 3201; *see* Alaska; Hunting and Trapping in National Preserves, 80 Fed. Reg. 64,325, 64,325 (Oct. 23, 2015) (to be codified at 36 C.F.R. pt. 13).

⁶¹² Alaska; Hunting and Trapping in National Preserves, 80 Fed. Reg. at 64,326.

⁶¹³ ALASKA STAT. § 16.05.255(e) (2016).

management requirement often leads to predator reduction efforts.⁶¹⁴ NPS on the other hand is required to maintain natural and healthy populations of all species according to ANILCA and “to conserve the scenery and the natural and historic objects and the wild life” according to the NPS Organic Act.⁶¹⁵ NPS policies implementing the Organic Act require the agency to “protect natural ecosystems and processes, including the natural abundances, diversities, distributions, densities, age-class distributions, populations, habitats, genetics, and behaviors of wildlife.”⁶¹⁶ These state and federal goals are mutually exclusive.⁶¹⁷

In 2015, NPS promulgated new regulations restricting how the state’s sport hunting laws could apply within parks, so that they do not conflict with NPS’s legal obligations under the Organic Act and ANILCA.⁶¹⁸ The new rules clarify that state wildlife regulations that conflict with NPS regulations or laws are not applicable on NPS lands.⁶¹⁹ The Alaska Regional Park Service Director will publish a list, at least annually, of all state-permitted activities that are prohibited on NPS lands.⁶²⁰

There has been a great deal of criticism of these rule changes. NPS’s effort has been characterized by the state as statutory overreach and a violation of the public trust doctrine,⁶²¹ though both ANILCA and the Organic Act recognize NPS’s authority to regulate these activities.⁶²²

Once the NPS rules were successfully promulgated, FWS began a similar rulemaking process. FWS’s effort to follow a similar course was initially marked by efforts to block the development of such rules on national wildlife refuges,⁶²³ though FWS’s effort was eventually successful,

⁶¹⁴ See Alaska; Hunting and Trapping in National Preserves, 80 Fed. Reg. at 64,326 (“In the last several years, the State of Alaska has allowed an increasing number of liberalized methods of hunting and trapping wildlife and extended seasons to increase opportunities to harvest predator species.”).

⁶¹⁵ 54 U.S.C. § 100101 (Supp. II 2015) (previously codified at 16 U.S.C. § 1).

⁶¹⁶ See Alaska; Hunting and Trapping in National Preserves, 80 Fed. Reg. at 64,326 (citing NPS MANAGEMENT POLICIES, *supra* note 375, §§ 4.1, 4.4.1, 4.4.1.2, and 4.4.2).

⁶¹⁷ Lurman & Rabinowitch, *supra* note 275, at 165.

⁶¹⁸ Alaska; Hunting and Trapping in National Preserves, 80 Fed. Reg. at 64,325. This rule change has been followed by a similar rule change on National Wildlife Refuges. See *infra* notes 623–624 and accompanying text.

⁶¹⁹ 36 C.F.R. § 13.42(a), (f) (2016).

⁶²⁰ *Id.* § 13.42(f)(1).

⁶²¹ See, e.g., Doug Vincent-Lang, *Alaska Must Reject Feds’ Claim to Control Hunting in Preserves and Refuges*, ALASKA DISPATCH NEWS (June 26, 2016), <https://perma.cc/2F3L-VGYN>. Lang is the former director of Wildlife Conservation at the Alaska Department of Fish and Game. *Id.*

⁶²² Alaska; Hunting and Trapping in National Preserves, 80 Fed. Reg. at 64,329, 64,333.

⁶²³ Senator Sullivan (R. AK) submitted an amendment, which was ultimately never passed, to the Bipartisan Sportsmen’s Act of 2015 that would prohibit FWS from implementing regulations restricting the application of state hunting rules on Refuge lands. Sam Friedman, *Sullivan Moves to Prohibit Federal Refuge Predator Hunt Rules*, FAIRBANKS DAILY NEWS-MINER (Jan. 20, 2016), <https://perma.cc/E7EA-WNY9>.

and the rules were promulgated.⁶²⁴ Ultimately, in 2017, Congress—exercising its authority under the Congressional Review Act⁶²⁵—abolished the FWS regulations.⁶²⁶ Therefore, the FWS regulations are no longer in force (though this elimination of the regulations does not speak in any way to their legality), while the NPS regulations remain in place. Furthermore, while the FWS regulations have been eliminated, the statutes animating them are still in place. FWS still possesses the authority, and often the obligation, to prevent the state from acting in ways contrary to federal mandates regarding wildlife management on refuges, regardless of the status of these particular regulations. As NPS states, “the State’s responsibility [to manage fish and wildlife] is not exclusive and it does not preclude federal regulation of wildlife on federal public lands, as is well-established in the courts and specifically stated in ANILCA.”⁶²⁷

7. The National Wilderness Preservation System

a. The Policy and Objectives of the Wilderness Act

The Wilderness Act of 1964 expresses the following policy:

In order to assure that an increasing population, accompanied by expanding settlement and growing mechanization, does not occupy and modify all areas within the United States and its possessions, leaving no lands designated for preservation and protection in their natural condition, it is hereby declared to be the policy of the Congress to secure for the American people of present and future generations the benefits of an enduring resource of wilderness. For this purpose there is hereby established a National Wilderness Preservation System to be composed of federally owned areas designated by Congress as “wilderness areas”, and *these shall be administered for the use and enjoyment of the American people in such manner as will leave them unimpaired for future use and enjoyment as wilderness.*⁶²⁸

The Act defines wilderness⁶²⁹ and imposes a duty on the federal agencies to administer designated areas for “preserving the wilderness character.”⁶³⁰ In addition, Congress designated fifty-four areas managed by USFS,⁶³¹ detailed inventory procedures,⁶³² prohibited a number of uses,⁶³³ and

⁶²⁴ Non-Subsistence Take of Wildlife, and Public Participation and Closure Procedures, on National Wildlife Refuges in Alaska, 81 Fed. Reg. 52,248 (Aug. 5, 2016) (to be codified at 50 C.F.R. pts. 32 and 36).

⁶²⁵ 5 U.S.C. §§ 801–808 (2012). The law authorizes Congress to review and repeal federal agency regulations passed within the last sixty legislative days. *Id.* § 801(a)(3).

⁶²⁶ Act of Apr. 3, 2017, Pub. L. No. 115-20, 131 Stat. 86 (providing congressional disapproval).

⁶²⁷ Alaska; Hunting and Trapping in National Preserves, 80 Fed. Reg. at 64,331.

⁶²⁸ 16 U.S.C. § 1131(a) (2012) (emphasis added).

⁶²⁹ *Id.* § 1131(c).

⁶³⁰ *Id.* § 1133(b).

⁶³¹ *Id.* § 1132(a); KATIE HOOVER, CONG. RESEARCH SERV., RL31447, WILDERNESS: OVERVIEW AND STATISTICS (2015).

adopted special provisions to clarify certain other uses.⁶³⁴ Sections of the Act particularly relevant to managing wildlife in wilderness areas include the definition of wilderness and the federal responsibility to preserve wilderness character; the prohibited uses; and the congressionally authorized special provisions that apply to managing wildlife in wilderness.

i. Preserving Wilderness Character

Congress directed each federal agency managing a wilderness to “preserve its wilderness character.”⁶³⁵ To implement this requirement, the four wilderness-managing agencies have endorsed the following definition of wilderness character:

Wilderness character is a holistic concept based on the interaction of (1) biophysical environments primarily free from modern human manipulation and impact, (2) personal experiences in natural environments relatively free from the encumbrances and signs of modern society, and (3) symbolic meanings of humility, restraint, and interdependence that inspire human connection with nature. Taken together, these tangible and intangible values define wilderness character and distinguish wilderness from all other lands.⁶³⁶

Specifically, five qualities of wilderness character are identified in the Act’s definition of wilderness: untrammeled; natural; undeveloped; solitude or primitive and unconfined recreation; and other features of value, including ecological and scientific features.⁶³⁷ We review each of these qualities below.

Untrammeled. In one of the most poetic passages found in the U.S. Code, the Wilderness Act provides that “wilderness, in contrast with those areas where man and his own works dominate the landscape, is hereby recognized as an area where the earth and its community of life are

⁶³² 16 U.S.C. § 1132(b)–(d). BLM’s authority to inventory for wilderness characteristics and to manage areas designated by Congress was expressed in FLPMA. 43 U.S.C. §§ 1711, 1782 (2012).

⁶³³ 16 U.S.C. § 1133(c).

⁶³⁴ *Id.* § 1133(d).

⁶³⁵ *Id.* § 1133(b).

⁶³⁶ PETER LANDRES ET AL., RMRS-GTR-340, KEEPING IT WILD 2: AN UPDATED INTERAGENCY STRATEGY TO MONITOR TRENDS IN WILDERNESS CHARACTER ACROSS THE NATIONAL WILDERNESS PRESERVATION SYSTEM 7 (2015) [hereinafter KIW2]; see Memorandum from Chair, Interagency Wilderness Steering Committee to Chair, Interagency Wilderness Policy Council, Interagency Wilderness Steering Committee’s *Keeping It Wild 2* Recommendations (Sep. 21, 2015) (approved by the Wilderness Policy Council Dec. 23, 2015). Understanding the complex meaning of the term “wilderness character” has been an ongoing task for the federal agencies mandated to preserve it for over a decade. See PETER LANDRES ET AL., RMRS-GTR-212, KEEPING IT WILD: AN INTERAGENCY STRATEGY TO MONITOR TRENDS IN WILDERNESS CHARACTER ACROSS THE NATIONAL WILDERNESS PRESERVATION SYSTEM 5–7 (2008) [hereinafter KIW]; PETER LANDRES ET AL., RMRS-GTR-151, MONITORING SELECTED CONDITIONS RELATED TO WILDERNESS CHARACTER: A NATIONAL FRAMEWORK, at iii–iv, 4–6 (2005).

⁶³⁷ 16 U.S.C. § 1131(c).

untrammelled by man” that “generally appears to have been affected primarily by the forces of nature” and “retain[s] its primeval character and influence.”⁶³⁸ Untrammelled means “essentially unhindered and free from the intentional actions of modern human control or manipulation.”⁶³⁹ In terms of wildlife management, this concept precludes intentional manipulation of species, populations, and individuals (with the exception of casual, noncommercial hunting and fishing, where allowed).⁶⁴⁰ The Untrammelled Quality is a unique requirement among federal land management legislation; it is what puts the “wild” in “wilderness.” When manipulation is necessary—for instance, to comply with another law such as the ESA or to improve another quality of wilderness character—action should be taken with the utmost restraint and humility.⁶⁴¹

Natural. The Act provides that wilderness is “protected and managed so as to preserve its natural conditions.”⁶⁴² This means that ecological systems within wilderness areas “are substantially free from the effects of modern civilization.”⁶⁴³ In terms of wildlife management, wilderness ecosystems should retain their native or indigenous species composition, distribution patterns, and ecological processes, including predator-prey dynamics, disturbance regimes, and abiotic and biotic fluctuations.⁶⁴⁴ These ecosystems should be uncompromised by non-native species, or by artificially increased (or decreased) populations of native species or other biophysical conditions.⁶⁴⁵ While the Untrammelled Quality reflects the wilderness character mandate to halt actions undertaken to consciously manipulate “the earth and its community of life,” the Natural Quality minimizes the adverse ecological effects to a wilderness area from intentional or unintentional actions, as well as the adverse effects from larger scale ecological change occurring outside the wilderness—for example, the spread of non-native species and habitat fragmentation.⁶⁴⁶

Undeveloped. The Wilderness Act also identifies wilderness as “an area of undeveloped Federal land . . . without permanent improvements or human habitation,” “where man himself is a visitor who does not remain . . . with the imprint of man’s work substantially unnoticeable.”⁶⁴⁷ This means that wilderness is unmarred by “the sights and sounds of modern human occupation.”⁶⁴⁸ The Act’s prohibition on “improvements” is not restricted to those that are permanent, but includes any physical developments (e.g.,

⁶³⁸ *Id.*

⁶³⁹ KIW2, *supra* note 636, at 10–11.

⁶⁴⁰ *See id.* at 104.

⁶⁴¹ *See* Sandra B. Zellmer, *Wilderness Imperatives and Untrammelled Nature, in* ENVIRONMENTAL LAW AND CONTRASTING IDEAS OF NATURE: A CONSTRUCTIVIST APPROACH 179, 184–85 (Keith H. Hirokawa ed., 2014).

⁶⁴² 16 U.S.C. § 1131(c).

⁶⁴³ KIW2, *supra* note 636, at 11; *see also id.* at 39.

⁶⁴⁴ *Id.* at 41–43.

⁶⁴⁵ *Id.* at 11.

⁶⁴⁶ *Id.* at 101, 109–10.

⁶⁴⁷ 16 U.S.C. § 1131(c).

⁶⁴⁸ KIW2, *supra* note 636, at 11; *see also id.* at 45–48.

structures, installations, and both permanent and temporary roads) as well as temporal developments (i.e., where the wilderness is “developed” for the duration of the use of the prohibited tool, such as motor vehicles, motorized equipment, and mechanical transport).⁶⁴⁹ Again, restraint and humility are key: “[In wilderness areas] we stand without our mechanisms that make us immediate masters over our environment.”⁶⁵⁰ The implications for wildlife management are discussed in greater detail below.⁶⁵¹

Solitude or Primitive and Unconfined Recreation. Wilderness areas provide “outstanding opportunities for solitude or a primitive and unconfined type of recreation.”⁶⁵² This means that, in wilderness, recreational opportunities occur “in an environment that is relatively free from the encumbrances of modern society, and for the experience of the benefits and inspiration derived from self-reliance, self-discovery, physical and mental challenge, and freedom from societal obligations.”⁶⁵³ In terms of wildlife management, recreational opportunities to enjoy wildlife (including hunting and fishing) are allowed within the constraints of preserving wilderness character as a whole—that is, without structures, installations, the use of motorized equipment, motor vehicles, or mechanical transport, and without manipulating populations for a more “desirable” (and less natural) assemblage of species.⁶⁵⁴

Other Features of Value. Finally, the Wilderness Act provides that wilderness “may also contain ecological, geological, or other features of scientific, educational, scenic, or historical value.”⁶⁵⁵ “This quality captures important elements or ‘features’ of a particular wilderness that are not [necessarily] covered by the other four qualities.”⁶⁵⁶ In terms of wildlife management, the ecological and scientific values are key, and in most cases, they are already addressed within the purview of the Natural Quality.⁶⁵⁷

ii. Within and Supplemental

Under section 4(a) of the Wilderness Act: “The purposes . . . are hereby declared to be within and supplemental to the purposes for which national forests and units of the national park and national wildlife refuge systems are established and administered.”⁶⁵⁸ As section 4(b) makes clear, however, “each agency administering any area designated as wilderness shall be responsible for *preserving the wilderness character* of the area and shall so administer such area for such other purposes for which it may have been

⁶⁴⁹ See 16 U.S.C. § 1133(c).

⁶⁵⁰ Howard Zahniser, *The Need for Wilderness Areas*, 59 LIVING WILDERNESS 37, 38 (1956).

⁶⁵¹ See discussion *infra* Part III.B.7.a.iii.

⁶⁵² 16 U.S.C. § 1131(c).

⁶⁵³ KIW2, *supra* note 636, at 11–12; see also *id.* at 51–55.

⁶⁵⁴ *Id.* at 51, 78.

⁶⁵⁵ 16 U.S.C. § 1131(c).

⁶⁵⁶ KIW2, *supra* note 636, at 12; see also *id.* at 57–60.

⁶⁵⁷ *Id.* at 39, 57–58.

⁶⁵⁸ 16 U.S.C. § 1133(a).

established as also *to preserve its wilderness character*.⁶⁵⁹ For all four agencies, upon designation as wilderness, the preservation of wilderness character becomes the primary duty of the underlying unit,⁶⁶⁰ and management of other purposes must meet the requirements of the Wilderness Act in addition to the requirements of each agency's Organic Act.⁶⁶¹

All four land management agencies struggle with this concept, but it has been especially problematic for FWS and NPS, largely because many employees of these two agencies believe that their conservation-oriented purposes are equivalent to wilderness preservation.⁶⁶² How these agencies have addressed this problem is discussed below.⁶⁶³ Implications and continuing issues surrounding “within and supplemental” are discussed in Part IV.E. The “within and supplemental” requirement crops up routinely with respect to justifying uses explicitly prohibited by the Wilderness Act.⁶⁶⁴

iii. Prohibition of Certain Uses

Section 4(c) of the Wilderness Act specifically prohibits ten uses.⁶⁶⁵ These are all subject to two exceptions: “Except as specifically provided for in this chapter, and subject to existing private rights.”⁶⁶⁶ Notably, there are no “existing private rights” associated with the management of wildlife in wilderness, and other specific provisions are discussed below.⁶⁶⁷ Two of the ten prohibited uses—commercial enterprise and permanent roads—are subject *only* to these two exceptions (unless specifically authorized in subsequent legislation).⁶⁶⁸ The prohibition on commercial enterprises has been a significant issue in wildlife management.

Commercial enterprise is defined as “a project or undertaking of or relating to commerce.”⁶⁶⁹ Only three types of commercial activity may be allowed in wilderness, as they are specifically provided for in the Act:

⁶⁵⁹ *Id.* § 1133(b) (emphasis added).

⁶⁶⁰ *See* *Wilderness Watch v. Vilsack*, 229 F. Supp. 3d 1170, 1182 (D. Idaho 2017) (“Congress made preservation of wilderness values ‘the primary duty of [USFS], and it must guide all decisions as the first and foremost standard of review for any proposed action.’” (quoting *Greater Yellowstone Coal. v. Timchak*, No. CV-06-04-E-BLW, 2006 WL 3386731, at *6 (D. Idaho Nov. 21, 2006))), *amended by* No. 4:16-CV-012-BLW, 2017 WL 3749441 (D. Idaho Aug. 30, 2017).

⁶⁶¹ 16 U.S.C. § 1133(a).

⁶⁶² *See* Sandra B. Zellmer, *Wilderness Management in National Parks and Wildlife Refuges*, 44 ENVTL. L. 497, 500 (2014) (analyzing wilderness management on dominant use lands).

⁶⁶³ *See* discussion *infra* Part III.B.7.c

⁶⁶⁴ *See* discussion *infra* Part IV.E.

⁶⁶⁵ 16 U.S.C. § 1133(c).

⁶⁶⁶ *Id.*

⁶⁶⁷ *See* discussion *infra* Part III.B.7.a.iv.

⁶⁶⁸ ROSS W. GORTE, CONG. RESEARCH SERV., R41649, WILDERNESS LAWS: STATUTORY PROVISIONS AND PROHIBITED AND PERMITTED USES 10–11 (2011).

⁶⁶⁹ *See* *Wilderness Soc’y v. U.S. Fish & Wildlife Serv. (Tustemena Lake)*, 353 F.3d 1051, 1061, 1065 (9th Cir. 2003) (en banc) (stating that commercial means “work that is intended for the mass market” and “even non-profit entities may engage in commercial activity”), *amended en banc* by 360 F.3d 1374 (9th Cir. 2004).

livestock grazing,⁶⁷⁰ exercising certain mineral rights,⁶⁷¹ and commercial services.⁶⁷² Absent those three activities, no commercial enterprise can take place in wilderness, and no wilderness resources can be removed for financial gain, including animals or parts of animals such as antlers and fur.⁶⁷³ Therefore, collection of wilderness wildlife resources may be allowed only for personal use. Not only is it a violation of the Wilderness Act to remove wilderness resources for financial gain, but also, no action may be taken to enhance a commercial activity, even if the activity itself takes place entirely outside the wilderness and even if it causes only “minimal intrusion on wilderness values.”⁶⁷⁴

Although commercial enterprises and permanent roads are tightly proscribed by the Wilderness Act, the other eight prohibited uses—temporary roads; use of motor vehicles, motorized equipment, and motorboats; landing of aircraft; any other form of mechanical transport; structures; and installations—are subject to an exception “as necessary to meet minimum requirements for the administration of the area for the purpose of this chapter.”⁶⁷⁵ This “minimum requirements” exception has three components.

For the purpose of this Act. As described above, the purpose of the Wilderness Act, and congressional direction to the federal agencies on the means of accomplishing that purpose, is to preserve wilderness character.⁶⁷⁶ Unless necessary in the exercise of a legal right, or unless specifically allowed elsewhere in the Wilderness Act (or other federal law), Congress has made it clear that otherwise-prohibited uses cannot be authorized for any purpose other than preserving wilderness character.⁶⁷⁷

For the administration of the area. Otherwise-prohibited uses cannot be authorized to facilitate management objectives or activities occurring *outside* of the wilderness area.⁶⁷⁸ Notably, in section 4(c), Congress clearly

⁶⁷⁰ 16 U.S.C. § 1133(d)(4).

⁶⁷¹ *Id.* § 1133(d)(3).

⁶⁷² *Id.* § 1133(d)(5); see *supra* notes 693–696 and accompanying text.

⁶⁷³ See BUREAU OF LAND MGMT., MANUAL TRANSMITTAL SHEET: 6340—MANAGEMENT OF DESIGNATED WILDERNESS AREAS (PUBLIC) § 1.6(C)(21)(c)(ix)(E) (2012), <https://perma.cc/287T-JA3V> [hereinafter BLM MANUAL] (“Sale of wildlife products gathered from wilderness is prohibited.”).

⁶⁷⁴ *Tustemena Lake*, 353 F.3d at 1062, 1066–67 (prohibiting FWS approval of salmon stocking within the Kenai Wilderness).

⁶⁷⁵ 16 U.S.C. § 1133(c).

⁶⁷⁶ See discussion *supra* Part III.B.7.a.i.

⁶⁷⁷ 16 U.S.C. § 1133(b)–(c).

⁶⁷⁸ See *High Point*, *LLL v. Nat’l Park Serv.*, 850 F.3d 1185, 1197–98 (11th Cir. 2017) (finding that, just as a van filled with tourists could not “be construed as ‘necessary’ to meet the ‘minimum requirements’ for administering the area,” neither could enlargement of a dock (a prohibited structure) be construed as an “existing private right[]” given the narrow construction applied to Wilderness Act exceptions (citing *Wilderness Watch v. Mainella*, 375 F.3d 1085, 1092 (11th Cir. 2004)); *High Sierra Hikers Ass’n v. U.S. Forest Serv.*, 436 F. Supp. 2d 1117, 1134, 1137, 1144 (E.D. Cal. 2006) (holding that the repair, maintenance, and operation of dams in a wilderness area to enhance downstream flows for fisheries and to preserve historical values was not necessary to meet minimum requirements for the administration of the area as the

referenced “*the area*”;⁶⁷⁹ not, as the Act does elsewhere, the National Wilderness Preservation System as a whole.⁶⁸⁰ In other words, prohibited uses cannot be authorized in Wilderness A to preserve the wilderness character of Wilderness B, unless they also preserve the wilderness character of Wilderness A.

Necessary to meet minimum requirements. Defining the “minimum” “necessary” is a work of art. One court cautioned that a generic finding of necessity will not suffice, and while it declared that the agencies need not “make a finding of ‘*absolute* necessity,’”⁶⁸¹ it offered no measure of exactly how necessary is necessary enough to meet the statute’s requirements when coupled with the qualifier “minimum.”⁶⁸² To guide the agencies, the Arthur Carhart National Wilderness Training Center (Carhart) has devised a two-step process: first, managers must determine if any action is *necessary* to address a problem of wilderness stewardship; if so, managers must then determine what the *least amount* of an otherwise prohibited use is necessary to accomplish the problem identified in the first step.⁶⁸³ Though not specifically required by the Act, Carhart’s *Minimum Requirements Decision Guide* is the most frequently used tool for making a minimum requirements decision, and the two-step analysis process has become ubiquitous.⁶⁸⁴ In any event, the courts have made it clear that before the federal agency can authorize one of these prohibited uses, it must explain why non-prohibited uses would be insufficient to preserve the area’s wilderness character.⁶⁸⁵

enhancement of fisheries was not necessary to meet minimum requirements for the administration of the area).

⁶⁷⁹ 16 U.S.C. § 1133(c).

⁶⁸⁰ See, e.g., *id.* § 1281(b) (“Any portion of a component of the national wild and scenic rivers system that is within the national wilderness preservation system . . . shall be subject to the provisions of both the Wilderness Act and this chapter . . .”).

⁶⁸¹ *Wilderness Watch, Inc. v. U.S. Fish & Wildlife Serv.* (*Kofa*), 629 F.3d 1024, 1037 n.8 (9th Cir. 2010) (emphasis added).

⁶⁸² See *id.* at 1049 & n.9 (Bybee, J., dissenting) (arguing that the word “necessary” should be construed broadly, as it has with respect to other legislation, but failing to recognize that none of the other examples couples “necessity” with the Wilderness Act’s qualifier “minimum”).

⁶⁸³ See ARTHUR CARHART NAT’L WILDERNESS TRAINING CTR., MINIMUM REQUIREMENTS DECISION GUIDE: OVERVIEW 1, 3 (2016), <https://perma.cc/XDH4-F6BP>.

⁶⁸⁴ See, e.g., Director’s Order No. 41, Jonathan Jarvis, Dir., Nat’l Park Serv., U.S. Dep’t of Interior, Wilderness Stewardship § 6.4 (May 13, 2013), <https://perma.cc/5XKB-L9TJ> (requiring national parks to follow the two-step analysis process when completing the minimum requirements analysis); ARTHUR CARHART NAT’L WILDERNESS TRAINING CTR., MINIMUM REQUIREMENTS DECISION GUIDE: U.S. FOREST SERVICE GUIDELINES 1 (2008), <https://perma.cc/SYL6-S3V7> (“Use of the MRDG is not currently required by law or agency policy However, use of the MRDG or a similar minimum requirements analysis (MRA) process was strongly recommended by the chief in a 2000 memo.”); BLM MANUAL, *supra* note 673, app. B-1 (“BLM will use the Minimum Requirements Decision Guide (MRDG) developed by the Arthur Carhart National Wilderness Training Center.”); FWS WILDERNESS POLICY, *supra* note 437, § 1.20 (requiring national wildlife refuge staff to attend a wilderness training at Carhart before making minimum requirement decisions).

⁶⁸⁵ See *Kofa*, 629 F.3d at 1037–38 (“[T]he key question—whether water structures were necessary at all—remains entirely unanswered and unexplained by the record . . . [N]owhere in the record does the Service explain why [conforming] actions, alone or in combination, are insufficient”); *cf.* *High Sierra Hikers Ass’n v. Blackwell*, 390 F.3d 630, 646 (9th Cir. 2004)

iv. Special Provisions

The Wilderness Act contains a number of “special provisions.”⁶⁸⁶ Three of these are applicable to the management of wildlife in wilderness. One special provision deals wholly with wildlife management, the so-called savings clause: “Nothing in this chapter shall be construed as affecting the jurisdiction or responsibilities of the several States with respect to wildlife and fish in the national forests.”⁶⁸⁷ As with similar savings clauses discussed above, this provision retains federal jurisdiction over wildlife on federal lands, while recognizing the traditional interest of the states with respect to wildlife management insofar as consistent with Wilderness Act purposes.⁶⁸⁸ Federal land managers cannot defer to state management prerogatives when doing so would violate the express terms of the Wilderness Act,⁶⁸⁹ or undermine the purposes of the Act.⁶⁹⁰

The second relevant special provision involves pre-existing uses of aircraft or motorboats. The Wilderness Act states “the use of aircraft or motorboats, where these uses have already become established, may be permitted to continue subject to such restrictions as the Secretary . . . deems

(construing the Wilderness Act’s provision for commercial services “to the extent necessary for activities which are proper for realizing the recreational or other wilderness purposes of the areas,” and holding that in order to invoke that exception, the agency must make a reasoned finding of necessity (quoting 16 U.S.C. § 1133(d)(5))).

⁶⁸⁶ 16 U.S.C. § 1133(d).

⁶⁸⁷ *Id.* § 1133(d)(7). This provision was extended to BLM: “Once an area has been designated for preservation as wilderness, the provisions of the Wilderness Act which apply to national forest wilderness areas shall apply with respect to the administration and use of such designated area.” FLPMA, 43 U.S.C. § 1782(c) (2012) (citation omitted).

⁶⁸⁸ See Lindsay Sain Jones, Note, *The Problem with the Bureau of Land Management’s Delegation of Wildlife Management in Wilderness*, 47 GA. L. REV. 1281, 1310 (2013) (stating that the savings clause does not affect “the nature of the jurisdiction or responsibility of the states with respect to wildlife on federal lands”; thus “the federal government’s jurisdiction over wildlife on federal lands remains intact”); *cf.* *Izaak Walton League of Am. v. St. Clair*, 353 F. Supp. 698, 707 (D. Minn. 1973) (holding that, despite the general rule that the federal government has no inherent police power and that zoning is a power of the states, state zoning provisions were not applicable within a national forest wilderness area), *rev’d on other grounds*, 497 F.2d 849 (8th Cir. 1974).

⁶⁸⁹ See *Kofa*, 629 F.3d at 1027, 1039–40 (invalidating a cooperative initiative with Arizona to maintain water structures); *Tustemena Lake*, 353 F.3d 1051, 1066–67, 1069 (9th Cir. 2003) (*en banc*) (prohibiting a salmon enhancement project as a prohibited “commercial enterprise” even though the state had previously administered and maintained regulatory control over the project), *amended en banc* by 360 F.3d 1374 (9th Cir. 2004); *Californians for Alts. to Toxics v. U.S. Fish & Wildlife Serv.*, 814 F. Supp. 2d 992, 996 (E.D. Cal. 2011) (invalidating a joint federal-state plan to restore cutthroat trout to its historic range in a wilderness area by eradicating non-native trout with rotenone); *High Sierra Hikers Ass’n*, 436 F. Supp. 2d 1117, 1122, 1137 (E.D. Cal. 2006) (holding that the repair, maintenance, and operation of dams in a wilderness area to enhance fisheries was not necessary to meet minimum requirements and thus was prohibited despite involvement and support of the California Department of Fish and Game).

⁶⁹⁰ See *Wolf Recovery Found. v. U.S. Forest Serv.*, 692 F. Supp. 2d 1264, 1266, 1269–70 (D. Idaho 2010) (affirming a decision to allow the Idaho Fish and Game Commission to use helicopters to monitor wolves in the Frank Church Wilderness, but only because the activity was “designed to aid the restoration of a specific aspect of the wilderness character of the Frank Church Wilderness that had earlier been destroyed by man”).

desirable.”⁶⁹¹ Agency regulations and policy specify the conditions to allow such uses and also limit the permissible locations to established sites to be used by the public, rather than for any agency’s administrative uses (such as wildlife management), which is subject to the more liberal analysis of simply meeting the “minimum necessary” test.⁶⁹²

Third, while commercial activity in wilderness is severely restricted, commercial services are allowable “to the extent necessary for activities which are proper for realizing . . . wilderness purposes.”⁶⁹³ In a series of cases over outfitters in wilderness areas on the Inyo National Forest as well as the Sequoia-Kings Canyon Wilderness, the courts have made it clear that “the [federal] agency’s primary responsibility is to protect the wilderness, not cede to commercial needs.”⁶⁹⁴ Determining the “extent necessary” is paramount: “[The] argument that [certain services] are not specifically forbidden in the wilderness area confuses the absence of a specific prohibition with the requirement of *necessity*; the fact that something is otherwise ‘legal’ does not make it necessary.”⁶⁹⁵ In allocating guiding permits, the federal agency errs if it “elevate[s] recreational activity over the long-term preservation of the wilderness character of the land.”⁶⁹⁶

*b. Subsequent Wilderness Legislation with Wildlife Provisions*⁶⁹⁷

A common refrain from wilderness managers is that “the Act designating *my* wilderness contains special direction on the management of wildlife.” In most cases, however, the precise language of any given piece of

⁶⁹¹ 16 U.S.C. § 1133(d)(1); *see also* Wilderness Watch, Inc. v. Bureau of Land Mgmt., 799 F. Supp. 2d 1172, 1176, 1181 (D. Nev. 2011) (holding that this exception supported BLM’s determination to allow police department to conduct search and rescue helicopter training where aircraft use pre-dated designation as protected wilderness area); *United States v. Gregg*, 290 F. Supp. 706, 706–08 (W.D. Wash. 1968) (upholding conviction for an unauthorized landing of an airplane in a wilderness, but noting that the Secretary could, by regulation, “create an exception to this blanket prohibition at places where the use of aircraft was established before the passage of the Act”).

⁶⁹² *See, e.g.*, U.S. FOREST SERV., HELICOPTER LANDINGS IN WILDERNESS: FINAL ENVIRONMENTAL IMPACT STATEMENT 2–3 (1997), <https://perma.cc/BS2C-PGTU> (“Established helicopter use was for general public access, not helicopter access authorized by . . . law (such as . . . administrative use by [USFS] or other agencies).”); *see also* Memorandum from James Sippel, Wilderness Planner, Bureau of Land Mgmt., to Robert Taylor, Assistant Field Manager for Nat’l Landscape Conservation Sys., & Juan Palma, Las Vegas Field Manager (Mar. 1, 2007) (on file with authors) (stating that this section of the Wilderness Act is “in reference to previously existing landing strips used as fly-in trailheads” in relatively few wilderness areas).

⁶⁹³ 16 U.S.C. § 1133(d)(5).

⁶⁹⁴ *High Sierra Hikers Ass’n v. U.S. Dep’t of the Interior*, 848 F. Supp. 2d 1036, 1042, 1047 (N.D. Cal. 2012); *see also Blackwell*, 390 F.3d 630, 636, 647 (9th Cir. 2004).

⁶⁹⁵ *High Sierra Hikers Ass’n v. Weingardt*, 521 F. Supp. 2d 1065, 1078 (N.D. Cal. 2007) (emphasis added) (noting the agency’s conclusion “improperly equates ‘preference’ with ‘need’”).

⁶⁹⁶ *Blackwell*, 390 F.3d at 636, 647.

⁶⁹⁷ For a comprehensive analysis of wildlife management provisions in post-1964 wilderness bills, *see Federal Lands & Wildlife, supra* note 3 (FAQs currently under construction).

subsequent legislation makes no substantive difference in the implementation of the Wilderness Act's provisions.⁶⁹⁸

As of 2017, Congress has designated 711 wilderness areas⁶⁹⁹ since the original fifty-four were designated in 1964.⁷⁰⁰ Each subsequent bill contains nearly identical “boilerplate” regarding administration of the area: “Subject to valid existing rights, this wilderness area shall be administered by the Secretary . . . in accordance with the Wilderness Act.”⁷⁰¹

The first wilderness legislation to include extra special language⁷⁰² specifically pertaining to wildlife was passed in 1972, with the establishment of the Sawtooth National Recreation Area, including the Sawtooth Wilderness.⁷⁰³ The relevant language of this extra special provision makes no actual difference in wildlife management within the Sawtooth Wilderness.⁷⁰⁴ In 1978, Congress started the custom of including not only the blanket “boilerplate” direction,⁷⁰⁵ but also repeating or rewording the Wilderness Act's statement on wildlife jurisdiction and responsibilities.⁷⁰⁶

⁶⁹⁸ See *infra* notes 707–708 and accompanying text.

⁶⁹⁹ *National Wilderness Preservation System Fact Sheet*, WILDERNESS CONNECT, <https://perma.cc/7EUS-4TBN> (last updated June 27, 2017).

⁷⁰⁰ Shannon Meyer & Peter Landres, *A National Wilderness Preservation System Database*, INT'L J. WILDERNESS, April 2000, at 13, 13.

⁷⁰¹ See, e.g., Act of Mar. 21, 1968, Pub. L. No. 90-271, § 3, 82 Stat. 51, 52 (codified at 16 U.S.C. § 1132 (2012)) (“The . . . Wilderness shall be administered by the Secretary . . . in accordance with the provisions of the Wilderness Act governing areas designated by that Act as wilderness areas, except that any reference in such provisions to the effective date of the Wilderness Act shall be deemed to be a reference to the effective date of this Act.”); Sawtooth National Recreation Area and Jerry Peak Wilderness Additions Act, Pub. L. No. 114-46, § 102(a), 129 Stat. 477, 477 (2015) (similar); Big Sur Wilderness and Conservation Act of 2002, Pub. L. No. 107-370, § 3(a), 116 Stat. 3071, 3073 (similar). With minor variations, this wording is found in every subsequent law designating wilderness.

⁷⁰² We use the term “extra special language” to describe provisions other than those found in the Special Provisions enumerated at 16 U.S.C. § 1133(d) or other direction found in the Wilderness Act of 1964.

⁷⁰³ Sawtooth National Recreation Area Act, Pub. L. No. 92-400, §§ 1(a), 8, 86 Stat. 612, 612, 614 (1972) (codified at 16 U.S.C. §§ 460aa–460aa-14).

⁷⁰⁴ See 16 U.S.C. § 460aa-7 (providing that hunting and fishing “shall” be permitted “within the boundaries of the recreation area in accordance with applicable laws of the United States and the State of Idaho, except that the Secretary may designate zones where, and establish periods when, no hunting or fishing shall be permitted for reasons of public safety, administration, or public use and enjoyment,” after consultation with the State; the consultation requirement is inapplicable in emergencies); *id.* § 460aa-1(b) (“The lands designated as the Sawtooth Wilderness Area . . . shall be administered in accordance with the provisions of this Act and the provisions of the Wilderness Act whichever is more restrictive . . .” (citation omitted)).

⁷⁰⁵ See *supra* note 701 and accompanying text (describing boilerplate language found in all bills designating wilderness areas).

⁷⁰⁶ See, e.g., Act of Oct. 21, 1978, Pub. L. No. 95-495, § 14, 92 Stat. 1649, 1657 (“Nothing in this Act shall be construed as affecting the jurisdiction or responsibilities of the State with respect to fish and wildlife in the wilderness . . .”); *cf.* Clark County Conservation of Public Land and Natural Resources Act of 2002, Pub. L. No. 107-282, § 208(a), 116 Stat. 1994, 2005 (reasserting that nothing “affects or diminishes” state jurisdiction).

Of the 139 laws designating wilderness since the passage of the 1964 Act,⁷⁰⁷ only four have extra special language that create minor effects in wilderness stewardship of wildlife resources in those particular wilderness areas,⁷⁰⁸ and only one has extra special language affecting that particular wilderness that is completely out of the norm of all other wilderness legislation. That bill designated the Wovoka Wilderness and is embedded within the Carl Levin and Howard P. ‘Buck’ McKeon National Defense Authorization Act for Fiscal Year 2015.⁷⁰⁹ The unique provisions of this law are as confusing as they are astonishing, and so are given extended attention here as an extreme outlier. On the one hand, the legislation states the Wovoka “shall be administered by the Secretary in accordance with the Wilderness Act”⁷¹⁰ and House Report 101-405 Appendix B.⁷¹¹ The law then adds: “The State, including a designee of the State, may conduct wildlife management activities . . . in accordance with the . . . ‘Memorandum of Understanding: Intermountain Region [USFS] and the Nevada Department of Wildlife State of Nevada’ and signed . . . [in] 1984.”⁷¹² The legislation says “may,” retaining a measure of federal discretion. But the cited MOU, which does not mention wilderness, contains contradictory direction and does not conform to federal law: “[USFS] agrees [t]o recognize the Department [of Wildlife of the State of Nevada] as the agency responsible for the preservation and management of the wildlife resources in Nevada and for determining the regulations under which fish and wildlife will be managed, utilized, and protected.”⁷¹³ There is no authority for a state to determine federal regulations, and this provision is contradicted later in the document: “[E]ach and every provision of the Memorandum is subject to the laws of the State of Nevada, the laws of the United States, and the regulations of the Secretary of Agriculture.”⁷¹⁴ The MOU also defines “exotic” wildlife species as “those species that do not or have not existed within the continental United States within recorded historical times.”⁷¹⁵ By this definition, any

⁷⁰⁷ Methodology for counting wilderness bills varies. Here, we count as a separate law bills with their own public law number, separate titles within one public law, and separate sections where the law refers to that section as a Wilderness Act.

⁷⁰⁸ See California Desert Protection Act of 1994, Pub. L. No. 103-433, §§ 503, 506(b), 108 Stat. 4471, 4490 (directing the Secretary to allow hunting in the Mojave National Preserve Wilderness, which was created largely out of BLM lands where hunting was permitted); North Cascades National Park Service Complex Fish Stocking Act, Pub. L. No. 113-137, § 3, 128 Stat. 1741, 1741 (2014) (mandating fish stocking in the North Cascades NPS Complex); Endangered American Wilderness Act of 1978, Pub. L. No. 95-237, § 4(c), 92 Stat. 40, 44 (directing the USFS to conduct wildlife research in cooperation with the State of Idaho in the Gospel-Hump Wilderness); Lee Metcalf Wilderness and Management Act of 1983, Pub. L. No. 98-140, § 2(c), 97 Stat. 901, 901-02 (limiting the use of motor vehicles for wildlife management in the Lee Metcalf Wilderness).

⁷⁰⁹ Pub. L. No. 113-291, § 3066(b)(1), 128 Stat. 3292, 3838 (2014) (codified in scattered sections of 10, 16, 40, and 46 U.S.C.).

⁷¹⁰ *Id.* § 3066(c)(1), 128 Stat. at 3839.

⁷¹¹ *Id.* § 3066(d)(2)(B)(ii), 128 Stat. at 3841; see H.R. REP. NO. 101-405 (1990).

⁷¹² *Id.* § 3066(d)(5), 128 Stat. at 3842.

⁷¹³ FSM § 1561.2 exhibit 3(A)(1) (1994).

⁷¹⁴ *Id.* § 1561.2 exhibit 3(C)(16).

⁷¹⁵ *Id.* § 1561.2 exhibit 3(B)(6)(1).

species from anywhere in the world that is currently anywhere within the continental United States is not exotic (and, according to the MOU, no USFS-advanced approval is necessary for species within the continental United States to be transplanted by the State).⁷¹⁶ This conflicts with the Executive Order defining exotic species as, “with respect *to a particular ecosystem*, any species . . . that is not native *to that ecosystem*,” and defining a native species as, “with respect to a particular ecosystem, a species that, *other than as a result of an introduction*, historically occurred or currently occurs in that ecosystem.”⁷¹⁷

Two other statutes are notable in that they contain language affecting the management of wildlife in multiple wilderness areas. The first is ANILCA, which contains far more extra special language on a variety of issues than any other wilderness-designating language “in recognition of the unique conditions in Alaska.”⁷¹⁸ Concerning wildlife, ANILCA provides that in national forest wilderness areas the Secretary *may* allow activities and facilities to enhance aquaculture “in a manner which adequately assures protection, preservation, enhancement, and rehabilitation of the wilderness resource.”⁷¹⁹ Other provisions dealing with wildlife center on allowable public uses, rather than management actions per se. These include construction of certain structures—with some Secretarial discretion—to facilitate the taking of fish and wildlife,⁷²⁰ and public use of motor vehicles for subsistence hunting.⁷²¹ Additional analysis of the wildlife provisions in ANILCA is found in Part III.B.6.

The other wilderness legislation with extra special language affecting multiple areas is in Title I of the California Desert Protection Act of 1994,⁷²² which designated sixty-nine wilderness areas under the stewardship of BLM.⁷²³ Section 103(f) contains a unique provision: “Management activities to maintain or restore fish and wildlife populations and . . . habitats . . . *may* be carried out . . . *and shall include the use of motorized vehicles by the appropriate State agencies.*”⁷²⁴ The contradictory use of “shall” and “may” caused considerable confusion in the offices tasked with stewardship of

⁷¹⁶ See *id.* § 1561.2 exhibit 3(B)(6) (requiring Regional Forester approval “before transplanting nonindigenous, Federally classified endangered or threatened or exotic[] wildlife species” but not for all other species).

⁷¹⁷ Exec. Order No. 13,112, 3 C.F.R. § 159 (2000) (emphasis added) (defining “alien” and “native” species); see also *Frequently Asked Question About Invasive Species*, U.S. FISH & WILDLIFE SERV., <https://perma.cc/A9YV-MRHT> (last updated Nov. 20, 2012) (“Other terms sometimes used for exotic species include ‘non-native[]’ ‘non-indigenous,’ and ‘alien.’ . . . These definitions come from Executive Order 13112.”).

⁷¹⁸ 16 U.S.C. § 3203(a) (2012).

⁷¹⁹ *Id.* § 3203(b).

⁷²⁰ *Id.* § 3204(a).

⁷²¹ *Id.* § 3121(b).

⁷²² *Id.* §§ 410aaa–410aaa-83.

⁷²³ See, e.g., California Desert Protection Act of 1994, Pub. Law No. 103-433, § 102(3), (55), (61), 108 Stat. 4471, 4473, 4479–80 (designating, among others, the Bighorn Mountain Wilderness, Rodman Mountains Wilderness, and Sheephole Valley Wilderness).

⁷²⁴ *Id.* § 103(f), 108 Stat. at 4482 (emphasis added).

these areas.⁷²⁵ Ultimately, BLM determined the correct interpretation of this language is that “BLM continues to hold the ultimate responsibility for managing any actions occurring with in [sic] the wilderness areas . . . [and w]hen BLM and [the California Department of Fish and Wildlife (CDFG)] cooperatively determine the need [for any access by CDFG] . . . CDFG and their volunteer organizations will be allowed to continue to use motor vehicles to carry out these necessary activities.”⁷²⁶

Another notable wilderness bill is the Arizona Desert Wilderness Act of 1990,⁷²⁷ which was the first of many laws to direct wildlife management “in accordance with appropriate policies and guidelines such as those set forth in Appendix B of [House Report 101-405].”⁷²⁸ As discussed below, this House Report is a verbatim transcript of the substantive portions of the 1986 International Association of Fish and Wildlife Agencies (IAFWA) agreement,⁷²⁹ and Congressional direction here contains two important points: 1) management actions “*may* be carried out”—i.e., action is not mandatory but discretionary; and 2) actions should be “consistent with relevant wilderness management plans”—i.e., discretion to take action lies with the federal land manager.⁷³⁰ In short, except for aerial fish stocking,⁷³¹ the federal responsibility to manage wildlife in such a way as to preserve an area’s wilderness character was not changed.

Some more recent laws in Nevada and Idaho have lengthy sections on wildlife management that affirm federal discretion, but (with one exception)⁷³² these sections change nothing of substance from the authority found in the Wilderness Act itself.⁷³³ The considerable confusion and

⁷²⁵ Memorandum from Ed Hartey, State Dir., Bureau of Land Mgmt., to Dist. Managers of Bakersfield and Cent. Cal. Dist., Bureau of Land Mgmt. (Sept. 30, 1997), <https://perma.cc/T4MU-N2GT>.

⁷²⁶ *Id.*

⁷²⁷ Pub. L. No. 101-628, 104 Stat. 4469 (codified at 16 U.S.C. § 460ddd).

⁷²⁸ *Id.* § 101(h), 104 Stat. at 4474; *see* H.R. REP. NO. 101-405 (1990).

⁷²⁹ *See* discussion *infra* Part III.B.7.d.

⁷³⁰ Arizona Desert Wilderness Act of 1990, § 101(h), 104 Stat. at 4474.

⁷³¹ *See* U.S. FOREST SERV., BUREAU OF LAND MGMT. & INT’L ASS’N OF FISH & WILDLIFE AGENCIES, APPENDIX I: POLICIES AND GUIDELINES FOR FISH AND WILDLIFE MANAGEMENT IN NATIONAL FOREST AND BUREAU OF LAND MANAGEMENT WILDERNESS I-8 to -9 (1986), <https://perma.cc/YE3K-8DEF> [hereinafter IAFWA 1986 AGREEMENT]. Under the IAFWA 1986 Agreement: “Aerial stocking of fish *shall* be permitted for those waters in wilderness where this was an established practice before wilderness designation or where other practical means are not available.” *Id.* (emphasis added). While “[a]erial stocking requires approval by the administering agency,” agency discretion is limited in that such use of aircraft is exempted from the “minimum necessary” requirement as discussed above in Part III.B.7.a.iii. *Id.* at I-9.

⁷³² *See supra* notes 709–717 and accompanying text (discussing the Wovoka Wilderness legislation). We review extra special wildlife provisions in wilderness law in more detail in the FAQs accompanying this Article. *See Federal Lands & Wildlife, supra* note 3 (FAQs currently under construction).

⁷³³ *See* Clark County Conservation of Public Land and Natural Resources Act of 2002, Pub. L. No. 107-282, § 208, 116 Stat. 1994 (2005); Lincoln County Conservation, Recreation, and Development Act of 2004, Pub. L. No. 108-424, § 209, 118 Stat. 2403, 2411–12; Tax Relief and Health Care Act of 2006, Pub. L. No. 109-432, § 329, 120 Stat. 2922, 3036–37; Omnibus Public Land Management Act of 2009, Pub. L. No. 111-11, § 1503(b)(8), 123 Stat. 991, 1035–36; Carl Levin and Howard P. “Buck” McKeon National Defense Authorization Act for Fiscal Year 2015,

misinterpretation of these laws by federal managers, state employees, and nongovernmental organizations is discussed in Part IV.E.

c. Agency Policy

Each of the four agencies has developed policy measures to guide wilderness managers. According to NPS's policy, both planning and management activities "must ensure that wilderness character is likewise preserved" within designated units of the National Park System.⁷³⁴ It provides: "The purpose of wilderness in the national parks includes the preservation of wilderness character and wilderness resources in an unimpaired condition and, in accordance with the Wilderness Act, wilderness areas shall be devoted to the public purposes of recreational, scenic, scientific, educational, conservation, and historical use."⁷³⁵ "In addition to managing these areas for the preservation of the physical wilderness resources, planning for these areas must ensure that the wilderness character is likewise preserved."⁷³⁶

FWS's policy provides that, upon designation, wilderness character becomes an additional purpose of any wilderness area within a refuge. More specifically, the agency's policy states: "As we carry out individual refuge establishing purpose(s), the Administration Act purposes, the Refuge System mission and goals, and [FWS]'s mission in areas designated as wilderness, we do so in a way that preserves wilderness character."⁷³⁷

For the National Forest System, USFS's policy states that "[w]ildlife and fish management programs shall be consistent with wilderness values."⁷³⁸ It commits the agency to "[b]ase any [USFS] recommendation to State wildlife and fish agencies on the need for protection and maintenance of the wilderness resource",⁷³⁹ "[p]rovide an environment where the forces of natural selection and survival rather than human actions determine which and what numbers of wildlife species will exist",⁷⁴⁰ and "[d]iscourage measures for direct control (other than normal harvest) of wildlife and fish populations."⁷⁴¹ In addition, practical application of the USFS policies reflects the *Policies and Guidelines for Fish and Wildlife Management in*

Pub. L. No. 113-291, §§ 3064(e), 3066(d), 128 Stat. 3292, 3831-32, 3841-42 (2014). For a section-by-section analysis of these laws, see *Federal Lands & Wildlife*, *supra* note 3 (FAQs currently under construction).

⁷³⁴ NPS MANAGEMENT POLICIES, *supra* note 375, §§ 6.1, 6.3.1.

⁷³⁵ *Id.* § 6.1.

⁷³⁶ *Id.* § 6.3.1.

⁷³⁷ FWS WILDERNESS POLICY, *supra* note 437, § 1.12(B).

⁷³⁸ FSM § 2323.32(2) (2006).

⁷³⁹ *Id.* § 2323.32(1). This provision recognizes that states also have responsibilities for the protection of wildlife in wilderness and calls for cooperative federalism in fish and wildlife management. *Id.*

⁷⁴⁰ *Id.* § 2323.31(1).

⁷⁴¹ *Id.* § 2323.32(3).

National Forest and Bureau of Land Management Wilderness developed with AFWA.⁷⁴² This document is discussed below.

BLM's wilderness policy was completely rewritten in 2012.⁷⁴³ Though never explicitly stated, the wildlife section of this policy purposefully adheres more closely to the IAFWA 1986 Agreement than the 2006 Agreement.⁷⁴⁴ Importantly, the 2012 BLM policy provides that "States have a primary and critical role" rather than "*the* primary role" in wildlife management,⁷⁴⁵ recognizing that the states' interests are not supreme, but that either the states or the federal agency may initiate wildlife stewardship proposals in wilderness. In addition, the policy plainly declares "[t]he ultimate responsibility to preserve wilderness character rests with the BLM"; it emphasizes wilderness preservation and requires the use of the Carhart *Minimum Requirements Decision Guide* for any wildlife management action.⁷⁴⁶ It also clarifies the prohibition on commercial use of wildlife.⁷⁴⁷

d. Wilderness and the Association of Fish & Wildlife Agencies

While Congress has not substantially changed wildlife management in wilderness with the recent legislation discussed above, for a little more than a decade there have been significant efforts to do so through legally questionable policy channels and nontransparent agreements between federal agencies and IAFWA or AFWA (the Association changed names in 2006).

In 1986, USFS and BLM made a comprehensive revision of their wilderness management directives with the cooperation of IAFWA.⁷⁴⁸ This agreement consists of a statement of purpose, general sideboards for the management of fish and wildlife in wilderness, and details regarding specified actions that may or may not be taken in cooperation with the states.⁷⁴⁹ It maintains federal control over decision-making processes,

⁷⁴² See *id.* § 2323.32(5) (citing U.S. FOREST SERV. ET AL., POLICIES AND GUIDELINES FOR FISH AND WILDLIFE MANAGEMENT IN NATIONAL FOREST AND BUREAU OF LAND MANAGEMENT WILDERNESS (2006), <https://perma.cc/M8MK-WDCY> [hereinafter AFWA 2006 AGREEMENT]). For details on the AFWA 2006 Agreement, see discussion *infra* Part III.B.7.d.

⁷⁴³ BLM MANUAL, *supra* note 673 (superseding BUREAU OF LAND MGMT., MANUAL TRANSMITTAL SHEET: 8560—MANAGEMENT OF DESIGNATED WILDERNESS AREAS).

⁷⁴⁴ See, e.g., *id.* § 1.6(C)(21)(c)(v) (discussing chemical treatment of pesticides). Compare AFWA 2006 AGREEMENT, *supra* note 742, at 6 (providing a less comprehensive policy and guidelines for application of pesticides), with IAFWA 1986 AGREEMENT, *supra* note 731, at I-6 to -7 (providing a more comprehensive policy and guidelines for application of pesticides).

⁷⁴⁵ BLM MANUAL, *supra* note 673, § 1.6(C)(21)(b)(i) (emphasis added). This is a shift from the misleading language of 43 C.F.R. § 24.3 (2016). See discussion *infra* Part IV.C.

⁷⁴⁶ BLM MANUAL, *supra* note 673, § 1.6(C)(21)(b)(ii)–(iii), app. B-1 (discussing application of the ARTHUR CARHART NAT'L WILDERNESS TRAINING CTR., *supra* note 683).

⁷⁴⁷ *Id.* § 1.6(C)(21)(c)(ix)(E).

⁷⁴⁸ IAFWA 1986 AGREEMENT, *supra* note 731, at I-1.

⁷⁴⁹ *Id.* at I-1 to -2. Fourteen specific action areas are listed: use of motorized equipment; fish and wildlife research and management surveys; facility development and habitat alteration; threatened and endangered species; angling, hunting, and trapping; population sampling; chemical treatment; spawn taking; fish stocking; aerial fish stocking; transplanting wildlife;

recognizes the responsibility afforded federal managers by the Wilderness Act, and is guided by the following direction: “Fish and wildlife management activities will emphasize the protection of natural processes . . . [and] by the principle of doing only the minimum necessary to manage the area as wilderness.”⁷⁵⁰ As noted above, these guidelines were incorporated into House Report 101-405 and referenced in several subsequent wilderness bills.⁷⁵¹

Although USFS, BLM, and IAFWA “reaffirmed [their] mutual commitment” to the 1986 Agreement in 1995⁷⁵² and again in 2002,⁷⁵³ the agencies initiated a complete revision of the document and ultimately issued a revamped “Policies and Guidelines” in 2006.⁷⁵⁴ There were remarkable changes between the 1986 Agreement and the 2006 Agreement.⁷⁵⁵ The solicitor assigned to review the 2006 Agreement on behalf of the Department of the Interior noted several problems with it, including significant inconsistencies with federal law.⁷⁵⁶ At least one AFWA officer was unconcerned: “[U.S. Department of the Interior] Solicitors balked but BLM Director made the decision to sign.”⁷⁵⁷

wildlife damage control; visitor management to protect wilderness wildlife resources; and management of fire. *Id.* at I-2 to -11.

⁷⁵⁰ *Id.* at I-1. The 1986 Agreement veers off course in one respect, found in the section on aerial fish stocking: “Aerial stocking of fish *shall* be permitted for those waters in wilderness where this was an established practice before wilderness designation or where other practical means are not available.” *Id.* at I-8 to -9 (emphasis added).

⁷⁵¹ See *supra* notes 710–712, 727–729 and accompanying text.

⁷⁵² Memorandum from Jack Ward Thomas, Chief, U.S. Forest Serv., et al., to Reg'l Foresters et al, Int'l Ass'n of Fish & Wildlife Agencies 1 (Feb. 23, 1995) (on file with authors).

⁷⁵³ Memorandum from Dale N. Bosworth, Chief, U.S. Forest Serv., et al., to State Gov't Members of the Int'l Ass'n of Fish & Wildlife Agencies, et al. 1–2 (Aug. 9, 2002) (on file with authors) (noting “the statutory endorsement of the existing guidelines by the Arizona Desert Wilderness Act”).

⁷⁵⁴ AFWA 2006 AGREEMENT, *supra* note 742.

⁷⁵⁵ Compare IAFWA 1986 AGREEMENT, *supra* note 731, at I-5 (“[S]uch actions [related to threatened and endangered species] must be necessary for the perpetuation or recovery of the species and it must be demonstrated that the actions cannot be done more effectively outside wilderness.”), with AFWA 2006 AGREEMENT, *supra* note 742, at 8–9 (omitting the language from the IAFWA 1986 Agreement).

⁷⁵⁶ See Facsimile Transmission from Kris Clark, Div. of Land & Water Res., U.S. Dep't of the Interior, to Dwight Fielder, Bureau of Land Mgmt., & Jeff Jarvis, Bureau of Land Mgmt. 1, 6–7 (Aug. 10, 2005) (on file with authors) (“[T]he handling of the ‘minimum requirements’ analysis appears to conflict with the Wilderness Act [I]t materially changes the meaning of the provision [of section 4(c) in the Wilderness Act],” “[The Agreement fails to recognize that] Federal law, including regulations and discretionary actions, preempt[s] state jurisdiction.”); see also e-mail from Kris Clark to E. Dwight Fielder, Chief, Div. of Fish, Wildlife & Plant Conservation, Bureau of Land Mgmt. (June 22, 2006) (on file with authors) (explaining that “decisions about federal agency management of wildlife in wilderness areas is not the appropriate subject for negotiation with an outside group” and stating that the Agreement’s characterizations of the Wilderness Act “are misleading and in many cases incorrect”).

⁷⁵⁷ E-mail from Gary J. Taylor, Legislative Dir., Ass'n of Fish & Wildlife Agencies, to Duane Shroufe et al. (July 18, 2006) (on file with authors) (also noting “USDI Solicitors question[ed] [the] legal status of AFWA being able to speak for the states. Whatever . . . the important thing is that it is signed.” (omission in original)); see also *id.* (stating that the USFS Chief, BLM Director,

A complete inventory of the changes is available elsewhere,⁷⁵⁸ but problematic additions or deletions include the following:

- Declaring that “State fish and wildlife management activities that do not involve Wilderness Act prohibitions identified . . . in Section 4(c) . . . are generally exempt from authorizations by the Federal administering agencies,”⁷⁵⁹ when in fact federal requirements to preserve wilderness character go beyond prohibiting section 4(c) uses and include prevention of any action that may degrade an area’s wilderness character (e.g., introducing a non-native species).⁷⁶⁰
- Giving states responsibility to determine whether wildlife and fish species are indigenous, thereby possibly degrading the Natural Quality of wilderness character.⁷⁶¹ Associated with this change is the deletion of the IAFWA 1986 Agreement prohibition on stocking exotic fish.⁷⁶²
- Identifying any state plans and agreements as sufficient to establish if an action is necessary in wilderness, when the Wilderness Act states prohibited uses can be approved only to manage the area for the purpose of the Act.⁷⁶³
- Deleting a passage committing the agencies to being guided by the principle of doing “only the minimum necessary to manage the area as wilderness,” and assigning authority for completing the “minimum requirements” analysis in part to the states,⁷⁶⁴ when the Act unequivocally gives federal agencies the sole responsibility to manage wilderness areas and preserve their wilderness character.⁷⁶⁵
- Analyzing implementation alternatives on the basis of impacts to “the wilderness characteristics (naturalness, outstanding

and AFWA Executive Vice President “all agreed no fanfare, news release or anything spotlighting it”).

⁷⁵⁸ ARTHUR CARHART NAT’L WILDERNESS TRAINING CTR., POLICIES AND GUIDELINES FOR FISH AND WILDLIFE MANAGEMENT IN NATIONAL FOREST AND BUREAU OF LAND MANAGEMENT WILDERNESS: A COMPARISON OF THE 1986 IAFWA AND 2006 AFWA DOCUMENTS, <https://perma.cc/KR83-7CNK> (last updated May 30, 2017).

⁷⁵⁹ AFWA 2006 AGREEMENT, *supra* note 742, at 5.

⁷⁶⁰ *See* discussion *supra* Part.III.B.7.a.i.

⁷⁶¹ AFWA 2006 AGREEMENT, *supra* note 742, at 5.

⁷⁶² *See* IAFWA 1986 AGREEMENT, *supra* note 731, at I-8 (“Exotic species of fish shall not be stocked.”).

⁷⁶³ Wilderness Act, 16 U.S.C. § 1133(c) (2012); AFWA 2006 AGREEMENT, *supra* note 742, at 5, 16.

⁷⁶⁴ *See* IAFWA 1986 Agreement, *supra* note 731, at 1 (containing the now-deleted language about doing only the minimum necessary); AFWA 2006 Agreement, *supra* note 742, at 14 (“[T]he intent of this attachment is to document the analysis process used by the BLM and [USFS], in cooperation with the State fish and wildlife agencies, to determine the ‘minimum requirements’ for accomplishing fish and wildlife projects and activities within a wilderness area.”).

⁷⁶⁵ 16 U.S.C. § 1133(b).

opportunities for solitude or primitive and unconfined recreation, and other special features),” and omitting consideration of other important impacts, in particular, to the untrammelled quality and the undeveloped quality.⁷⁶⁶

These provisions, and other AFWA initiatives, reflect AFWA’s fundamental misunderstanding of the federal role in managing wildlife. According to AFWA: “The state fish and wildlife agencies are responsible for fish and wildlife management within their borders, even on most federal public lands—including federal lands designated as Wilderness.”⁷⁶⁷ While the states have duties related to wildlife management, no statute grants them authority in wilderness—or other federal lands—superior to the federal agencies.⁷⁶⁸

It is clear from the plain text of the Wilderness Act that Congress intended the preservation of wilderness character as the primary purpose of the Act. Congress was adamant that wilderness areas shall be “administered for the use and enjoyment of the American people in such manner as will leave them unimpaired for future use and enjoyment *as wilderness*,”⁷⁶⁹ and that allowing otherwise prohibited uses to meet minimum necessary requirements must be for the purpose of the Act,⁷⁷⁰ not for meeting “states’ abilities to accomplish big game harvest objectives.”⁷⁷¹ The misconception that federal agencies should only utilize “[w]ilderness management planning processes that support the state wildlife agencies and their wildlife management responsibilities and goals”⁷⁷² is exactly backward. In wilderness, state wildlife agencies should support—and cannot undermine—the congressional mandate to preserve wilderness character. While the state agencies may not be required to do so, the federal agencies must evaluate any action that may degrade wilderness character and are required to deny any action that does so.⁷⁷³

IV. ANALYSIS AND RECOMMENDATIONS

A. The Federal Obligation to Manage and Conserve Fish and Wildlife on Federal Lands

We begin our analysis by recognizing that federal land agencies have an *obligation*, and not just the discretion, to manage and conserve fish and

⁷⁶⁶ AFWA 2006 AGREEMENT, *supra* note 742, at 17.

⁷⁶⁷ John Kennedy, Speech at the National Wilderness Conference in Albuquerque, New Mexico: Fish and Wildlife Management in Wilderness 2 (Oct. 17, 2014) [hereinafter Kennedy Speech] (transcript on file with authors).

⁷⁶⁸ See 16 U.S.C. § 1133(a)(3) (“Nothing in this chapter shall modify the statutory authority under which units of the national park system are created.”).

⁷⁶⁹ *Id.* § 1131(a) (emphasis added).

⁷⁷⁰ *Id.* § 1133(c).

⁷⁷¹ Kennedy Speech, *supra* note 767, at 6.

⁷⁷² *Id.* at 11.

⁷⁷³ 16 U.S.C. § 1133(b).

wildlife on federal lands. Before explaining, it is important to first dispel the common myth that “the states manage wildlife, federal land agencies only manage wildlife habitat.”⁷⁷⁴ We found this mantra repeated throughout our study, and it was commonly invoked by state *and* federal agencies in multiple cases and contexts.

The mantra has a long history and can be traced to the different sources of federal and state powers regarding wildlife management. As discussed in Part II.A, states claim ownership of wildlife and a commensurate public trust duty to manage it in the public’s interest. On the other hand, the Property Clause of the U.S. Constitution provides federal land agencies with vast plenary powers to manage public lands—and the wildlife thereon.⁷⁷⁵ Writing in 1970, the Public Land Law Review Commission noted that “[h]istorically, the states have regulated the game population, and the Federal Government has managed the habitat.”⁷⁷⁶ But the Commission also observed that, “increasingly, . . . the line between the traditional functions has become shadowy” because of the interplay between wildlife populations and habitat.⁷⁷⁷ The Commission released its report prior to passage of the ESA, NFMA, and FLPMA.⁷⁷⁸ And while these laws gave federal land agencies new responsibilities to conserve at-risk species and manage wildlife, and not just wildlife habitat, the “federal lands-habitat” refrain continued.

Part of the mantra’s endurance is also due to the states’ traditional role in regulating hunting, fishing, and trapping. As discussed previously, FLPMA and the Sikes Act include provisions related to hunting and fishing on public lands administered by USFS and BLM, meaning that federal agencies most often defer to the states when it comes to regulating the harvest of fish and wildlife on federal lands.⁷⁷⁹ Congress has shown no interest in usurping this traditional role of the states. However, wildlife management goes beyond simply setting harvest levels and methods. Just because the federal government has traditionally deferred to the states in establishing regulations pertaining to hunting, fishing, and trapping does not mean “the states manage wildlife, and federal land agencies manage wildlife habitat.” We suspect that this non sequitur explains why the mantra has been so rarely questioned in the past.

⁷⁷⁴ See, e.g., *Kleppe*, 426 U.S. 529, 534 n.4, 536–37 (1976) (“[The State of New Mexico] contend[s] that the [Property] Clause grants Congress essentially two kinds of power: (1) the power to dispose of and make incidental rules regarding the use of federal property; and (2) the power to protect federal property. According to [the State], the first power is not broad enough to support legislation protecting wild animals that live on federal property; and the second power is not implicated since the Act is designed to protect the animals, which are not themselves federal property, and not the public lands.”).

⁷⁷⁵ See *id.* at 546; Blumm & Paulsen, *supra* note 5, at 1461.

⁷⁷⁶ PUB. LAND LAW REVIEW COMM’N, ONE THIRD OF THE NATION’S LAND: A REPORT TO THE PRESIDENT AND TO THE CONGRESS BY THE PUBLIC LAND LAW REVIEW COMMISSION 158 (1970), <https://perma.cc/7R83-JWLF>.

⁷⁷⁷ *Id.*

⁷⁷⁸ See *id.* at iii (submitting the report in 1970). The ESA, NFMA, and FLPMA were passed in 1973, 1976, and 1976, respectively. See *supra* notes 87–88, 287 and accompanying text.

⁷⁷⁹ See *supra* notes 104–105, 579–582 and accompanying text.

The mantra is wrong from a legal standpoint, limited from a biological one, and problematically simplifies the complexity of wildlife-habitat relationships. We take issue with the mantra because it invariably leads to fragmented approaches to wildlife conservation and unproductive battles over agency turf, and it often leads to an abdication of federal responsibility over wildlife.

We begin with a review of the public land laws surveyed in Part III.B. We then turn to the public trust and national interest in federal lands, and finally to the biological and ecological concerns perpetuated by the wildlife-habitat mantra.

1. Federal Land Laws Governing Wildlife Management

Part III.B makes clear that Congress directed all four federal land management agencies to manage wildlife on federal lands and to not just provide wildlife habitat. The ESA is a good starting point because the Act and its regulations so clearly intertwine the fate of species and ecosystems. The two are linked together under the law, and the statute mandates that all federal land agencies utilize their authorities to effectuate the purposes of the Act.⁷⁸⁰ And the purpose of the Act, after all, is “to provide a means whereby the ecosystems upon which endangered species and threatened species depend may be conserved.”⁷⁸¹ Furthermore, the meaning of “harm,” in the definition of “take” includes “significant habitat modification or degradation.”⁷⁸² The ESA obligates federal agencies to conserve species and to avoid jeopardizing the continued existence of the listed species or destroying critical habitat.⁷⁸³

The ESA is also significant because of the role played by federal lands in the conservation of listed and candidate species. The most recent assessment, completed in 2008, measured the distribution of ESA-status species (listed as endangered, threatened, or candidate) and species defined by NatureServe as imperiled.⁷⁸⁴ It found that federal lands are significant reservoirs of biodiversity.⁷⁸⁵ Lands managed by USFS and the Department of Defense (DOD) stood out in terms of supporting the greatest number of species with status under the ESA. Both agencies harbored about 23% of species with ESA-status (at least 355 species for each agency), followed by

⁷⁸⁰ ESA, 16 U.S.C. § 1536(a)(1) (2012); *see supra* note 311 and accompanying text.

⁷⁸¹ 16 U.S.C. § 1531(b).

⁷⁸² 50 C.F.R. § 17.3(c)(3) (2016).

⁷⁸³ 16 U.S.C. § 1536(a)(1)–(2).

⁷⁸⁴ Bruce A. Stein et al., *Federal Lands and Endangered Species: The Role of Military and Other Federal Lands in Sustaining Biodiversity*, 58 *BIOSCIENCE* 339, 341 (2008). NatureServe provides independent conservation status assessments for extinction risks facing species in the United States. *Id.* at 340; *About Us*, NATURESERVE, <https://perma.cc/K8TD-6J8R> (last visited Nov. 11, 2017) (“[W]e collect decision-quality data about imperiled species and entire ecosystems, transform that data into knowledge products and visualizations, and provide meaning through expert analyses and support to guide decision-making, implement action, and enhance conservation outcomes.”).

⁷⁸⁵ Stein et al., *supra* note 784, at 346.

NPS (19%), FWS (18%), and BLM (16%).⁷⁸⁶ USFS also harbored the most NatureServe-defined imperiled species: approximately 27% of the total (at least 821 species).⁷⁸⁷ This was followed by BLM (20%) and DOD lands (15%).⁷⁸⁸

To put these percentages in context, consider the importance of national forest lands to fish and wildlife more broadly:

The 193 million acres of the National Forest System support much of North America's wildlife heritage, including: habitat for 430 federally listed threatened and endangered species, six proposed species, and 60 candidate species, with over 16 million acres and 22,000 miles of streams designated as critical habitat for endangered species; approximately 80% of the elk, mountain goat, and bighorn sheep habitat in the lower 48 States; nearly 28 million acres of wild turkey habitat; approximately 70% of the Nation's remaining old growth forests; over 5 million acres of waterfowl habitat; habitat for more than 250 species of migratory birds; habitat for more than 3,500 rare species; some of the best remaining habitat for grizzly bear, lynx, and many reptile, amphibian and rare plant species; over two million acres of lake and reservoir habitat; and over two hundred thousand miles of fish-bearing streams and rivers.⁷⁸⁹

Amongst federal land agencies, BLM has the "fewest ESA status species" and "ranks second for number of imperiled species."⁷⁹⁰ Nonetheless, over 245 ESA-listed species and at least another 31 candidate species are found on BLM lands, and roughly 450 rare and listed plant and animal species "are believed to occur only on BLM-managed lands."⁷⁹¹ While private and other landholdings are essential to biodiversity conservation, federal lands will play an increasingly crucial role in the future.⁷⁹²

The wildlife conservation mandates given to NPS and FWS are unambiguous in the obligation to prioritize the conservation of fish and wildlife. The National Park Service Organic Act makes the conservation of

⁷⁸⁶ *Id.* at 343 & fig.2.

⁷⁸⁷ *Id.*

⁷⁸⁸ *Id.*

⁷⁸⁹ U.S. FOREST SERV., BIOLOGICAL ASSESSMENT OF THE UNITED STATES DEPARTMENT OF AGRICULTURE NATIONAL FOREST SYSTEM LAND MANAGEMENT PLANNING RULE FOR FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES; SPECIES PROPOSED FOR FEDERAL LISTING; SPECIES THAT ARE CANDIDATES FOR FEDERAL LISTING ON NATIONAL FOREST SYSTEM LANDS 17–18 (2011), <https://perma.cc/F4EP-4LQZ>.

⁷⁹⁰ Stein et al., *supra* note 784, at 345.

⁷⁹¹ *Threatened and Endangered Species*, BUREAU LAND MGMT., <https://perma.cc/2RYC-DFY2> (last visited Nov. 11, 2017); see *Threatened and Endangered . . .*, FLICKR, <https://perma.cc/W65S-3QD4> (last visited Nov. 11, 2017) (follow "Show more" hyperlink).

⁷⁹² Stein and colleagues conclude that "[g]iven the current and projected pace of private land development, we can expect that federal lands will assume greater importance for the protection of our native species." Stein et al., *supra* note 784, at 346; see also U.S. FOREST SERV., FUTURE OF AMERICA'S FORESTS AND RANGELANDS: FOREST SERVICE 2010 RESOURCES PLANNING ACT ASSESSMENT 11 (2012), <https://perma.cc/ZDB2-TJUR> (reviewing how development pressure on nonpublic lands is affecting "the ability of those public lands to sustain important ecosystem services and biodiversity"); *The Disappearing West*, CTR. FOR AM. PROGRESS, <https://perma.cc/RU3C-54L2> (last visited Nov. 11, 2017) (discussing the loss of natural land due to human development and the need for private, state, and federal conservation efforts).

park resources, including wildlife, a primary management goal, and the courts are consistent in their reading that conservation is to be prioritized over facilitating public enjoyment.⁷⁹³ Furthermore, the enjoyment of park resources and wildlife may only occur in “such manner and by such means as will leave them unimpaired for the enjoyment of future generations.”⁷⁹⁴ The wildlife conservation mandate is even more well defined for national wildlife refuges. The 1997 Improvement Act prioritizes “the conservation of fish, wildlife and plants, and their habitats within the System” and seeks to “ensure that the biological integrity, diversity, and environmental health of the System are maintained for the benefit of present and future generations of Americans.”⁷⁹⁵ The laws governing national parks and wildlife refuges make clear the obligation to conserve fish and wildlife and its habitat.

The wildlife-habitat mantra is most often invoked in the context of USFS and BLM management.⁷⁹⁶ But the multiple-use mandates given to both agencies require that these lands be managed for fish and wildlife purposes, with no distinction made between wildlife and wildlife habitat.⁷⁹⁷ The multiple-use mandates provide USFS and BLM considerable discretion, but that does not mean that the agencies can arbitrarily opt out of managing fish and wildlife where laws or regulations require such management.

NFMA provides a more substantive and enforceable mandate for USFS: “[to] provide for diversity of plant and animal communities based on the suitability and capability of the specific land area in order to meet overall multiple-use objectives.”⁷⁹⁸ Land and Resource Management Plans, whether written pursuant to the 1982 or 2012 NFMA regulations, must ensure the viability of species in planning areas.⁷⁹⁹ The regulations differ in how the viability requirement is defined, but both regulations emphasize the importance of habitat or “ecological conditions” in meeting the diversity mandate.⁸⁰⁰ Yet the definitions of viability, in both sets of regulations, focus on the population of species (e.g., their distribution, persistence, resilience, etc.).⁸⁰¹

FLPMA provides BLM with no wildlife diversity mandate, and it possesses more discretion than other federal land agencies. But this discretion is limited by FLPMA and its regulations.⁸⁰² Multiple use is defined in the Act to include “wildlife and fish.”⁸⁰³ Though “habitat for fish and wildlife and domestic animals” is referenced in FLPMA as well, the language

⁷⁹³ See discussion *supra* Part II.B.2.a.

⁷⁹⁴ 54 U.S.C. § 100101(a) (Supp. II 2015).

⁷⁹⁵ 16 U.S.C. § 668dd(a)(4) (2012).

⁷⁹⁶ See, e.g., *Kleppe*, 426 U.S. 529, 536–37 (1976) (invoking the wildlife mantra to challenge federal jurisdiction over unbranded and unclaimed horses and burros on public lands administered by USFS and BLM).

⁷⁹⁷ See, e.g., 16 U.S.C. § 1604(e)(1); FLPMA, 43 U.S.C. § 1702(c) (2012).

⁷⁹⁸ 16 U.S.C. § 1604(g)(3)(B).

⁷⁹⁹ 36 C.F.R. § 219.9(b) (2012); *id.* § 219.19 (1983).

⁸⁰⁰ *Id.* §§ 219.9(b), 219.19 (2012); *id.* § 219.19 (1983).

⁸⁰¹ *Id.* § 219.19 (2012); *id.* (1983).

⁸⁰² 43 U.S.C. § 1712(c).

⁸⁰³ 43 C.F.R. § 1601.0-5(i) (2016).

is embedded in a more inclusive section focused on the ecological and other values for which public lands must be managed.⁸⁰⁴ The Act also requires BLM's land use planning process to "give priority to the designation and protection of areas of critical environmental concern,"⁸⁰⁵ and "to protect and prevent irreparable damage" to the "fish and wildlife resources" found within these areas.⁸⁰⁶ Furthermore, whatever discretion BLM has regarding wildlife conservation becomes much less relevant once a species found on BLM lands is protected by the ESA.

2. *The Public Trust and National Interest in Federal Lands*

In addition to the statutory requirements summarized above, many of these federal land laws include trust-like language pertaining to the national interest in federal lands, non-impairment, and intergenerational responsibility that further clarifies the federal obligation to conserve wildlife. The NPS Organic Act, for example, requires the conservation of "scenery, natural and historic objects, and wild life" therein and also requires the provision for the enjoyment of the same "in such manner and by such means as will leave them unimpaired for the enjoyment of future generations."⁸⁰⁷ The mission of the National Wildlife Refuge System, as provided by the Improvement Act, "is to administer a national network of lands and waters for the conservation, management, and where appropriate, restoration of the fish, wildlife, and plant resources and their habitats within the United States for the benefit of present and future generations of Americans."⁸⁰⁸ In the Wilderness Act, Congress secured "for the American people of present and future generations the benefits of an enduring resource of wilderness."⁸⁰⁹ Section 101 of NEPA expresses the federal government's responsibility to use all practicable means to "fulfill the responsibilities of each generation as trustee of the environment for succeeding generations."⁸¹⁰ Finally, the ESA includes similar language pertaining to the multiple values of species "to the Nation and its people" and the importance of "better safeguarding, for the benefit of all citizens, the Nation's heritage in fish, wildlife, and plants."⁸¹¹

⁸⁰⁴ 43 U.S.C. § 1701(a)(8).

⁸⁰⁵ *Id.* § 1712(c)(3).

⁸⁰⁶ *Id.* § 1702(a).

⁸⁰⁷ 54 U.S.C. § 100101(a) (Supp. II 2015).

⁸⁰⁸ National Wildlife Refuge System Administration Act of 1966, 16 U.S.C. § 668dd(a)(2) (2012); see also Robert L. Fischman & Robert S. Adamcik, *Beyond Trust Species: The Conservation Potential of the National Wildlife Refuge System in the Wake of Climate Change*, 51 NAT. RESOURCES J. 1, 6 (2011) (analyzing FWS's "variable and amorphous application of 'trust' terminology and the doctrine that such terminology reflects").

⁸⁰⁹ 16 U.S.C. § 1131(a).

⁸¹⁰ NEPA, 42 U.S.C. § 4331(b)(1) (2012).

⁸¹¹ 16 U.S.C. § 1531(a); see also *Palila*, 471 F. Supp. 985, 994 (D. Haw. 1979), *aff'd on other grounds*, 639 F.2d 495 (9th Cir. 1981), *aff'd*, 852 F.2d 1106 (9th Cir. 1988). According to the court: "It is also possible that Congress can assert a property interest in endangered species which is superior to that of the state. . . . The importance of preserving such a national resource may be of such magnitude as to rise to the level of a federal property interest." *Palila*, 471 F. Supp. at

While the multiple-use statutes of USFS and BLM do not specifically reference an intergenerational trust, it is implied in various provisions pertaining to the national interest in federal lands and the command to not impair them. MUSYA, for instance, requires USFS to manage multiple uses in a combination “that will best meet the needs of the American people . . . without impairment of the productivity of the land.”⁸¹² NFMA speaks to “the public interest” and serving “the national interest” in the renewable resources program.⁸¹³ And finally, FLPMA similarly recognizes “the national interest” in public lands and requires multiple-use management to “meet the present and future needs of the American people” as well as “long-term needs of future generations,” and to do so “without permanent impairment of the productivity of the land and the quality of the environment.”⁸¹⁴ The public trust is also acknowledged in Department of the Interior regulations on intergovernmental cooperation in fish and wildlife management:

The Secretary of the Interior reaffirms that fish and wildlife must be maintained for their ecological, cultural, educational, historical, aesthetic, scientific, recreational, economic, and social values to the people of the United States, and that these resources are held in public trust by the Federal and State governments for the benefit of present and future generations of Americans.⁸¹⁵

As the statutory language suggests, applying trust principles to lands as varied as those found in the federal system is challenging. It is one thing, for example, to find a trust duty for the national parks, but it becomes murkier when thinking of the routine multiple-use decisions that must be made by USFS and BLM, decisions that often involve the private use of public resources. But even here, there is an understanding by the courts that such private uses must be for “national and public purposes,”⁸¹⁶ and that anti-monopoly restrictions impose a constraint on Congress in making decisions about federal lands as a trust resource.⁸¹⁷ At least one prominent scholar places federal public lands “at the outer reaches of the public trust doctrine.”⁸¹⁸ This is in part because federal public land law is a field heavy

995 n.40. See generally Mary Christina Wood, *Protecting the Wildlife Trust: A Reinterpretation of Section 7 of the Endangered Species Act*, 34 ENVTL. L. 605 (2004) (analyzing the wildlife trust doctrine).

⁸¹² 16 U.S.C. §§ 529, 531(a).

⁸¹³ *Id.* § 1600(2)–(3).

⁸¹⁴ 43 U.S.C. §§ 1701(a)(2), (a)(7), 1702(c) (2012).

⁸¹⁵ 43 C.F.R. § 24.1(b) (2016).

⁸¹⁶ *Light*, 220 U.S. 523, 537 (1911).

⁸¹⁷ See *Camfield*, 167 U.S. 518, 524 (1897) (“[The United States] would be recreant to its duties as trustee for the people . . . to permit any individual or private corporation to monopolize them for private gain”); *United States v. Trinidad Coal & Coking Co.*, 137 U.S. 160, 170 (1890) (“[I]n making regulations for disposing of [lands], Congress took no thought of their pecuniary value, but, in the discharge of a high public duty and in the interest of the whole country, sought to develop the material resources of the United States”).

⁸¹⁸ Charles F. Wilkinson, *The Public Trust Doctrine in Public Land Law*, 14 U.C. DAVIS L. REV. 269, 273 (1980).

with statutes and regulations, leaving some to question the relevance of applying a common law–based trust doctrine,⁸¹⁹ and also because, in the past, Congress has not hesitated to deploy its Property Clause powers to privatize federal public lands and resources.⁸²⁰ But by the same token, when it appears Congress has chosen to dispose of federal property, the Court has demanded a clear expression of congressional intent.⁸²¹

The issue of a federal trust duty has received vigorous judicial and scholarly debate in recent years,⁸²² but the courts have nonetheless referenced a public trust duty in numerous federal land cases.⁸²³ It is fair to say that the federal public trust, like the Property Clause, “favors retention of federal land in national ownership (retention), national over state and local authority (nationalization), and environmental preservation (conservation),” as a matter of constitutional common law.⁸²⁴

Whether employed as an interpretive canon by the courts or a conservation tool by the federal agencies, the federal public trust provides a useful way of understanding the broad obligations of federal agencies to

⁸¹⁹ See *id.* at 276 (“The legislative matrix is sufficiently comprehensive that doubts can fairly be raised as to whether there is room for a broad, common law doctrine to operate.”).

⁸²⁰ See *id.* (explaining that the government “sold or . . . transferred away” its public lands to allow settlement of the western United States and that “[n]o serious suggestion could be made that private title to some 1.4 billion acres is clouded due to the United States’ inability to convey clear title”); *Light*, 220 U.S. at 537 (describing the federal public trust doctrine as applicable to “[a]ll the public lands of the nation [which] are held in trust for the people of the whole country” but also stating that Congress had sole power to dispose of those lands).

⁸²¹ See John D. Leshy, *A Property Clause for the Twenty-First Century*, 75 U. COLO. L. REV. 1101, 1110 (2004) (“[T]he Court demands that Congress express itself more clearly when it wants to dispose of federal lands than when it retains them.”). Leshy places the *Light* opinion within the burgeoning conservation thrust of 20th century cases. See *id.* at 1120. Although the Court remarked that Congress, when exercising its rights incident to proprietorship and sovereignty, holds the power to “establish[] a forest reserve for what it decides to be national and public purposes . . . [or] disestablish a reserve,” it in fact upheld federal authority to reserve and protect its public lands from destruction by unregulated grazing. *Light*, 220 U.S. at 537.

⁸²² Much of the recent debate stems from a misinterpretation of *PPL Montana, LLC v. Montana*, 565 U.S. 576 (2012). See, e.g., *Juliana v. United States*, 217 F. Supp. 3d 1224, 1256, 1258 (D. Or. 2016) (“[A] close reading of *PPL Montana* reveals that it says nothing about the viability of federal public trust claims.”). For additional background, see Amicus Curiae Brief of Law Professors in Support of Granting Writ of Certiorari at 3–8, Alec L. *ex rel.* Looz v. McCarthy, 135 S. Ct. 774 (2014) (No. 14-496), 2014 WL 5841697, at *3–8 [hereinafter Amicus Curiae Brief] (arguing the lower court misapplied *PPL Montana*). See generally Hope M. Babcock, *Using the Federal Public Trust Doctrine to Fill Gaps in the Legal Systems Protecting Migrating Wildlife from the Effects of Climate Change*, 95 NEB. L. REV. 649 (2017) (arguing the legal basis for a federal version of the public trust doctrine); Michael C. Blumm & Lynn S. Schaffer, *The Federal Public Trust Doctrine: Misinterpreting Justice Kennedy and Illinois Central Railroad*, 45 ENVTL. L. 399, 408–09 (2015) (discussing Justice Kennedy’s comments in *PPL Montana* regarding the public trust doctrine).

⁸²³ See Wilkinson, *supra* note 818, at 298 (identifying thirty-six court opinions describing “the inland public lands as being held in trust”); *Juliana*, 217 F. Supp. 3d at 1258–89 (applying the public trust doctrine to the federal government as a fundamental attribute of sovereignty).

⁸²⁴ See Leshy, *supra* note 821, at 1101 (reviewing Property Clause powers); *Juliana*, 217 F. Supp. 3d at 1260 (“[P]ublic trust rights both predated the Constitution and are secured by it.”).

manage and conserve wildlife located on or integral to federal lands.⁸²⁵ We are not suggesting that the trust doctrine will provide a precise guide or formula that can be used by federal agencies to make complicated wildlife decisions. Rather, it will require that federal agencies explicitly consider their own trust obligations in decision-making processes and stop the practice of reflexively acquiescing to state claims of wildlife authority.

The famous “Mono Lake decision” by the California Supreme Court provides a constructive way of thinking about this obligation and what it means in practice.⁸²⁶ There, the court had to reconcile two different systems of legal thought—the prior appropriation doctrine and public trust doctrine of Western water law—that were on a “collision course.”⁸²⁷ Though the court did not dictate any “particular allocation” of water in the dispute, leaving that decision to the water management agencies, it did make clear that there is “an affirmative duty to take the public trust into account in the planning and allocation of water resources, and to protect public trust uses whenever feasible.”⁸²⁸ The public trust duty, said the court, “imposes a duty of continuing supervision over the taking and use of the appropriated water.”⁸²⁹ In the case, the court asked state agencies to integrate two different doctrines of law and corrected the State of California who “mistakenly thought itself powerless to protect” trust resources.⁸³⁰ Federal agencies similarly have statutory and trust obligations for federal lands and wildlife, and these responsibilities must be factored into their decision-making processes.

Another trust responsibility of relevance is that between the federal government and Indian tribes. While we cannot give this complicated issue full consideration, it is important to recognize yet another layer of trust responsibilities found on federal lands. The federal government has a unique trust responsibility to protect the rights, assets, and property of Indian tribes.⁸³¹ This trust responsibility extends to protecting those off-reservation

⁸²⁵ See Melissa K. Scanlan, *A Comparative Analysis of the Public Trust Doctrine for Managing Water in the United States and India*, in ROUTLEDGE HANDBOOK OF WATER LAW AND POLICY 23, 25 (Alistair Rieu-Clarke et al. eds., 2017) (describing the trust as a judicial presumption that the state cannot privatize or substantially impair trust resources without a clear statutory directives and findings); William D. Araiza, *The Public Trust Doctrine as an Interpretive Canon*, 45 U.C. DAVIS L. REV. 693, 738 (2012) (characterizing the public trust doctrine as “[a]n interpretive canon . . . that provides courts with a judicially manageable method of vindicating the fundamental principle of public purpose in government management of natural resources”).

⁸²⁶ Nat’l Audubon Soc’y v. Superior Court of Alpine Cty., 658 P.2d 709, 711–12 (Cal. 1983).

⁸²⁷ *Id.* at 712.

⁸²⁸ *Id.* at 728, 732.

⁸²⁹ *Id.* at 728.

⁸³⁰ *Id.* at 732.

⁸³¹ “Though sovereign, Indian tribes are not foreign nations, but rather distinct political communities ‘that may more correctly perhaps be denominated domestic, dependent nations,’ whose ‘relations to the United States resemble that of a ward to his guardian.” Martin Nie, *The Use of Co-Management and Protected Land-Use Designations to Protect Tribal Cultural Resources and Reserved Treaty Rights on Federal Lands*, 48 NAT. RESOURCES J. 585, 595 (2008) (quoting *Cherokee Nation v. Georgia*, 30 U.S. (5 Pet.) 1, 2 (1831)). “A less paternalistic way of thinking about this trust relationship” is cast in terms of property; “the federal government has a

use rights that were reserved by tribes through treaties.⁸³² Hundreds of treaties precede the creation of federal land agencies, and many of these contain provisions that reserved rights on what is now federally managed land.⁸³³ These off-reservation treaty rights often include “hunting and fishing rights, gathering rights, water rights, grazing rights, and subsistence rights.”⁸³⁴ The trust responsibility to protect these rights is recognized by Congress, the Executive Branch, and the courts.⁸³⁵

3. The Ecological Fallacy of Separating Wildlife from Habitat

The “states manage wildlife, federal land agencies manage habitat” mantra is also problematic from a biological and wildlife management perspective. This is because it creates a reductionist and oversimplified dichotomy between wildlife and habitat. It is obvious that 1) land management decisions made by federal agencies impact fish and wildlife populations, and 2) the decisions made by state agencies about fish and wildlife populations impact federal land and resources. Consider, for example, the impact a federal oil and gas lease can have on a state-managed mule deer population, or a state introducing non-native mountain goats to a national forest and the impact this introduction will have to that forest’s alpine environment. Now, imagine in the latter case, USFS acquiescing to the introduction of non-native mountain goats on the grounds that the agency does not have authority over wildlife management and that it simply manages habitat. In cases like this, the habitat mantra becomes an abdication of federal responsibility over wildlife and its habitat.

duty to prevent harm to another sovereign’s property.” *Id.* (citing Mary Christina Wood, *Indian Land and the Promise of Native Sovereignty: The Trust Doctrine Revisited*, 1994 UTAH L. REV. 1471, 1503–04 (1994)).

⁸³² *Id.*

⁸³³ *See id.* at 585–86, 596 (discussing reserved treaty rights of Native Nations on federal lands and approaches for protecting such rights).

⁸³⁴ *Id.* at 597.

⁸³⁵ *See* Exec. Order 13,175, 3 C.F.R. § 304 (2000) (“The United States has a unique legal relationship with Indian tribal governments as set forth in the Constitution of the United States, treaties, statutes, Executive Orders, and court decisions. Since the formation of the Union, the United States has recognized Indian tribes as domestic dependent nations under its protection. The Federal Government has enacted numerous statutes and promulgated numerous regulations that establish and define a trust relationship with Indian tribes.”); Order No. 3335, Sally Jewel, Sec’y of the Interior, Reaffirmation of the Federal Trust Responsibility to Federally Recognized Indian Tribes and Individual Indian Beneficiaries § 3 (Aug. 20, 2014) (providing background on the trust responsibility including a review of relevant statutes and case law). USFS “recognizes the Federal Government has certain trust responsibilities and a unique legal relationship with federally recognized Indian Tribes.” 36 C.F.R. § 219.4(a)(2) (2016); *see also* U.S. FOREST SERV. HANDBOOK § 1509.13(11) (2016) (discussing consultation with Indian tribes); Joint Secretarial Order No. 3206, Sec’y of the Interior & Sec’y of Commerce, American Indian Tribal Rights, Federal-Tribal Trust Responsibilities, and the Endangered Species Act § 1 (June 5, 1997), <https://perma.cc/U45L-UWXF> (“This Order further acknowledges the trust responsibility and treaty obligations of the United States toward Indian tribes and tribal members and its government-to-government relationship in dealing with tribes.”).

The fields of wildlife biology and management recognize the complex interplay between wildlife and habitat. For example, state wildlife agencies often make clear in their educational and outreach materials that wildlife management *is* habitat management.⁸³⁶ And a popular text views habitat

as a concept that is related to a particular species, and sometimes even to a particular population, of plant or animal. Habitat, then, is an area with a combination of resources (like food, cover, water) and environmental conditions (temperature, precipitation, presence or absence of predators and competitors) that promotes occupancy by individuals of a given species (or population) and allows those individuals to survive and reproduce.⁸³⁷

What is wildlife? The authors propose a similarly inclusive definition that includes “the full array of all biota present in an ecosystem as well as their ecological functions.”⁸³⁸ From here, the text goes on to analyze the interconnections between wildlife and habitat, while noting the obvious: “That vegetation plays a central role in the life of many animals is self-evident.”⁸³⁹ The authors, as do others in the field, call for managing wildlife in this larger ecosystem context.⁸⁴⁰ In some ways, the call differs little from Aldo Leopold’s views of “thinking like a mountain” and protecting the integrity of biotic communities: “The land ethic simply enlarges the boundaries of the community to include soils, waters, plants, and animals, or collectively: the land.”⁸⁴¹

B. State Wildlife Governance

1. State Ownership and the Wildlife Trust

The common claim that “states own wildlife”—full stop—is incomplete, misleading, and needlessly deepens divisions between federal and state governments. The claim is especially dubious when states assert ownership as a basis to challenge federal authority over wildlife on federal lands. As

⁸³⁶ See, e.g., Mont. Fish, Wildlife & Parks, *Fish & Wildlife: Fish Habitat*, MONTANA.GOV, <https://perma.cc/5QWH-7TKS> (last visited Nov. 11, 2017) (“Habitat is the KEY to fish and wildlife management in Montana.”).

⁸³⁷ MICHAEL L. MORRISON ET AL., WILDLIFE—HABITAT RELATIONSHIPS: CONCEPTS AND APPLICATIONS 10 (3d ed. 2006).

⁸³⁸ *Id.* at 380.

⁸³⁹ *Id.* at 43.

⁸⁴⁰ *Id.* at 12; see, e.g., Michael A. Huston, *Introductory Essay: Critical Issues for Improving Predictions*, in PREDICTING SPECIES OCCURRENCES: ISSUES OF ACCURACY AND SCALE 7, 7 (J. Michael Scott et al. eds., 2002) (explaining that theories of “how certain processes are expected to produce particular ecological patterns” are important “for the management and conservation of natural resources, including endangered species and biodiversity”); BRENDA C. MCCOMB, WILDLIFE HABITAT MANAGEMENT: CONCEPTS AND APPLICATIONS IN FORESTRY 7 (2d. ed. 2016) (“[V]egetation management by forest-land managers is probably the greatest factor influencing the abundance and distribution of animals in our forests today.”).

⁸⁴¹ ALDO LEOPOLD, A SAND COUNTY ALMANAC: WITH ESSAYS ON CONSERVATION FROM ROUND RIVER 137–41, 239 (1953).

reviewed in Part III.A, the U.S. Supreme Court has rejected this argument time and again. “To put the claim of the State upon title is to lean upon a slender reed,” ruled the Court in *Missouri v. Holland*.⁸⁴² Decades later, in *Hughes v. Oklahoma*, the Court called such claims a “19th-century legal fiction.”⁸⁴³

The states are on firm ground when declaring a “sovereign ownership” of wildlife that must be managed in the public interest. However, a more accurate phrase is to say that states manage wildlife under a doctrine of “sovereign trusteeship.”⁸⁴⁴ In Part II, we highlighted trust-like language found in state constitutions, statutes, and case law. The so-called “wildlife trust doctrine” is essentially a branch of the public trust doctrine. It requires governmental trustees to manage the corpus of the trust—in this case wildlife—in the public interest and for the benefit of present and future generations, who are the beneficiaries of the trust.⁸⁴⁵ But the development and application of the wildlife trust is limited when contrasted to other trust resources, such as navigable waterways, submerged lands, and public access.⁸⁴⁶

While rejecting claims of state ownership, the *Hughes* Court makes clear that there nevertheless remain “*legitimate state concerns* for conservation and protection of wild animals” and that the states are not “powerless to protect and conserve wild animal life within their borders.”⁸⁴⁷ The *Kleppe* Court also acknowledged that “States have broad trustee and police powers over wild animals within their jurisdictions.”⁸⁴⁸ Although it did not elaborate on these powers, the Court emphasized that they were nevertheless subject to the constitutional powers and supremacy of the federal government.⁸⁴⁹ Similarly, in *Baldwin v. Fish & Game Commission of Montana*, the Court remarked that “the State’s control over wildlife is not exclusive and absolute in the face of federal regulation.”⁸⁵⁰ In Part III.A, we

⁸⁴² 252 U.S. 416, 434 (1920).

⁸⁴³ 441 U.S. 322, 335 (1979), *overruling Geer*, 161 U.S. 519 (1896).

⁸⁴⁴ Mary Christina Wood, *The Tribal Property Right to Wildlife Capital (Part I): Applying Principles of Sovereignty to Protect Imperiled Wildlife Populations*, 37 IDAHO L. REV. 1, 59 (2000).

⁸⁴⁵ See *Juliana*, 217 F. Supp. 3d 1224, 1254 (D. Or. 2016) (“[B]asic trust principles . . . impose upon the trustee a fiduciary duty to ‘protect the trust property against damage or destruction.’ The trustee owes this duty equally to both current and future beneficiaries of the trust.” (citation omitted)).

⁸⁴⁶ See, e.g., Frank, *supra* note 15, at 678 (“[T]here has been precious little development of public trust principles in the fish and wildlife context over the past three decades. . . . [T]he reported decisions that do exist seem reluctant to apply public trust principles vigorously to protect fish and wildlife resources.”). But see Robin Kundis Craig, *A Comparative Guide to the Western States’ Public Trust Doctrines: Public Values, Private Rights, and the Evolution Toward an Ecological Public Trust*, 37 ECOLOGY L.Q. 53, 84–86 (2010) (noting that California courts, for example, have applied the public trust doctrine to wildlife).

⁸⁴⁷ *Hughes*, 441 U.S. at 336, 338 (emphasis added).

⁸⁴⁸ *Kleppe*, 426 U.S. 529, 545 (1976).

⁸⁴⁹ *Id.*

⁸⁵⁰ *Baldwin*, 436 U.S. 371, 386 (1978) (“Nor does a State’s control over its resources preclude the proper exercise of federal power.”); see also *Otter v. Jewel*, 227 F. Supp. 3d 117, 124–26, (D.D.C. 2017) (holding that sovereign ownership of wildlife based on a state statute did not

reviewed other cases where the courts struck down state wildlife laws—and assertions of state ownership of wildlife—as being in violation of the U.S. Constitution, thus clarifying that state powers over wildlife on federal lands are qualified.

The problem is that states seem to most frequently reference ownership and a public trust in wildlife when declaring broad powers to manage it in opposition to federal (or tribal) interests. In other words, states often claim the powers of a trustee without the accompanying responsibilities.⁸⁵¹ The public trust in wildlife raises a number of related questions. What are the state's affirmative conservation duties under their trust obligations? What must they refrain from doing? Does the doctrine apply to just game species or to biological diversity more broadly?⁸⁵² Does it help resolve conflicts amongst species and if so how? Does the doctrine extend to the protection of wildlife habitat? How is the doctrine enforced and, in particular, do private citizens—the beneficiaries of the trust—have the ability to challenge state agencies to ensure protection of trust resources?⁸⁵³ How can a state exert its trust responsibilities for wildlife on federal lands when a state's trust responsibility is limited to the people of that state only, while federal land and its resources are to be managed for the benefit of all Americans? It is only when these and related questions are sufficiently answered by the states that the term “sovereign ownership” can be used meaningfully.⁸⁵⁴

To summarize, unqualified proclamations that states own wildlife and that the rights associated with ownership limit federal agencies from taking actions to conserve wildlife and its habitat must be challenged. We appreciate that the term “state ownership” is sometimes used as a shortcut to express the trust principles on which it is based and to characterize the state's substantial interest in conserving wildlife. But the term is too often used by the states as a way to challenge federal authority—as if “ownership”

mean that management of sage grouse on federal lands by the federal government produced an injury-in-fact for the purpose of state standing to challenge federal land management plans), *appeal filed sub nom.*, *Otter v. Zinke*, No. 17-5050 (D.C. Cir. Mar. 28, 2017).

⁸⁵¹ See Horner, *supra* note 14, at 28 (“[S]tates have been quick to assert their ‘rights’ with respect to public trust resources . . . Unfortunately, their corresponding ‘duties’ have not been as readily accepted.”).

⁸⁵² See, e.g., Jeremy T. Bruskotter et al., *Rescuing Wolves from Politics: Wildlife as a Public Trust Resource*, 333 *SCIENCE* 1828, 1828–29 (2011) (arguing that states should utilize the public trust doctrine to protect wildlife species in need of support); Edward A. Fitzgerald, *The Alaskan Wolf War: The Public Trust Doctrine Missing in Action*, 15 *ANIMAL L.* 193, 197 (2009) (“The public trust doctrine . . . imposes a fiduciary duty on state government to protect and preserve public resources. . . . [It] ‘demands fair procedures, decisions that are justified, and results that are consistent with protection and perpetuation of the resource.’”).

⁸⁵³ See *Ctr. for Biological Diversity, Inc. v. FPL Grp., Inc.*, 83 Cal. Rptr. 3d 588, 603 (Cal. Ct. App. 2008) (affirming that the public has standing to challenge the state's management of wildlife under the public trust doctrine).

⁸⁵⁴ Eric Freyfogle and Dale Goble summarize: “The problem with taking [wildlife] trust language literally is that there is no trust document that sets forth the precise terms of the trust.” FREYFOGLE & GOBLE, *supra* note 292, at 33. So far, they say, “courts have had little or no occasion to struggle with these issues” and “[t]he duties states have and the limits they face in managing wildlife remain largely undecided.” *Id.* at 34; accord Blumm & Paulsen, *supra* note 5, at 1471; Horner, *supra* note 14, at 27.

provides them with more clout than “trust responsibility”—and it does little to help solve conflict or find common ground with federal agencies.⁸⁵⁵

Further complicating matters is that the state’s wildlife trust duty, insofar as it is defined at all, is subject to the federal government’s statutory and trust obligations over federal lands. As we discussed above, courts have found a trust responsibility for federal lands and integral resources. Although its potential application and parameters remain ill-defined, the cases tend to reinforce and strengthen federal powers over public lands, not limit them.⁸⁵⁶ This is in stark contrast to cases addressing the state public trust doctrine, which tend to restrict legislative and executive actions that run counter to trust responsibilities.⁸⁵⁷ This is not to suggest, however, that the doctrine cannot be used to impose limits and obligations on federal agencies. The Redwood National Park litigation is the most well-known example.⁸⁵⁸ In a series of cases involving the Park, national park statutes *and* the public trust doctrine were invoked to require affirmative action be taken to protect park resources from external threats posed by logging.⁸⁵⁹ There was, according to the court, an obligation to act: “any discretion vested in the Secretary concerning time, place and specifics of the exercise of such

⁸⁵⁵ As summarized by the Tenth Circuit in the Wyoming National Elk Refuge dispute: “FWS’s apparent indifference to the State of Wyoming’s problem and the State’s insistence of a ‘sovereign right’ to manage wildlife on the [National Elk Refuge] do little to promote ‘cooperative federalism.’” *Wyoming*, 279 F.3d 1214, 1240 (10th Cir. 2002).

⁸⁵⁶ See *Juliana*, 217 F. Supp. 3d 1224, 1253, 1260 (D. Or. 2016) (applying the public trust doctrine to the federal government as a fundamental attribute of sovereignty, and finding that “plaintiffs’ public trust rights both predated the Constitution and are secured by it”); Eric Pearson, *The Public Trust Doctrine in Federal Law*, 24 J. LAND RESOURCES & ENVTL. L. 173, 175 (2004) (noting that the trust doctrine “supplements federal power rather than restricts it”); Wilkinson, *supra* note 818, at 284 (“[T]he trust concept was used to reach results in favor of the United States, that is, to create and reinforce federal powers.”). But see MICHAEL C. BLUMM & MARY CHRISTINA WOOD, *THE PUBLIC TRUST DOCTRINE IN ENVIRONMENTAL AND NATURAL RESOURCES LAW* 305 (2d ed. 2015) (challenging the notion that the trust obligation does not impose a restraint on federal land management and noting that these early cases never tested the issue, as many of them centered on the federal government’s ability to protect federal lands from trespassers).

⁸⁵⁷ See *Ill. Cent. R.R. Co. v. Illinois*, 146 U.S. 387, 452–54 (invalidating a transfer of state trust lands—submerged lands under Lake Michigan—to a private company); Robin Kundis Craig, *Adapting to Climate Change: The Potential Role of State Common-Law Public Trust Doctrines*, 34 VT. L. REV. 781, 784 (2010) (discussing how “the classic statement of the American public trust doctrine” provides limitations on the States’ ability to alienate trust resources).

⁸⁵⁸ See *Redwoods III*, 424 F. Supp. 172, 175 (N.D. Cal. 1976) (finding that the Department of the Interior had taken all the necessary steps required of it to protect Redwood National Park under the Redwood National Park Act, 16 U.S.C. §§ 79a–79j (2012), and therefore was discharged of its previous failure to perform duties required by law); *Redwoods II*, 398 F. Supp. 284, 287, 293–94 (N.D. Cal. 1975) (stating that there is a “general trust duty” to conserve and provide for enjoyment of “scenery and natural and historic objects and wildlife . . . in such manner and by such means as will leave them unimpaired”), *modified*, *Redwoods III*, 424 F. Supp. 172 (N.D. Cal. 1976); *Redwoods I*, 376 F. Supp. 90, 93, 95–96 (N.D. Cal. 1974) (finding that any discretion vested in the Secretary of Interior was subordinate to his obligations to protect the park under the public trust doctrine as “guardian of the people of [the] United States over the public lands” and the Redwood National Park Act).

⁸⁵⁹ *Redwoods III*, 424 F. Supp. at 172–73; *Redwoods II*, 398 F. Supp. at 285; *Redwoods I*, 376 F. Supp. at 93.

powers is subordinate to his paramount legal duty imposed, not only under his trust obligation but by the statute itself, to protect the park.”⁸⁶⁰

In moving forward, then, there would be value in attempting to harmonize the multiple trust obligations found on federal lands. As a starting place, the federal government must respond to state assertions of ownership and a wildlife trust by making clear that it too has statutory and trust obligations over federal lands, and they may extend to the conservation of wildlife. In some cases, the implication may be that the federal interest in wildlife preempts that of the states. But, in other cases when there are no competing objectives, a more cooperative form of “co-trusteeship” is possible. Mary Christina Wood uses this term to characterize the multiple trust obligations—at the federal, state, and tribal levels—as they apply to the interjurisdictional nature of salmon conservation and resource management more generally.⁸⁶¹ This co-trustee approach provides one way of reframing what is too often an adversarial relationship between federal and state governments. As Wood explains, the co-trustee framework creates mutual rights to transboundary assets along with collective responsibilities for conserving the resource.⁸⁶²

2. *Hunting and the North American Model of Wildlife Conservation*

Several conflicts examined as part of this project are partially driven by the way in which wildlife is managed and funded at the state level. Many of the cases reviewed as part of this research involve federal agency actions that are perceived to be in conflict with the state’s interest in promoting and regulating fishing, hunting, and trapping. The Alaska cases provide the clearest examples, as the State of Alaska views actions by NPS and FWS to be in direct opposition to the state’s mandate to intensively manage wildlife population in order to maximize a sustained yield of prey species in order to achieve high levels of human harvest.⁸⁶³ The wolf management cases in Idaho

⁸⁶⁰ *Redwoods I*, 376 F. Supp. at 96.

⁸⁶¹ Mary Christina Wood, *Advancing the Sovereign Trust of Government to Safeguard the Environment for Present and Future Generations (Part I): Ecological Realism and the Need for a Paradigm Shift*, 39 ENVTL. L. 43, 84–85 (2009).

⁸⁶² *Id.* at 85. Wood calls the approach a “sovereign cotenancy” over shared assets. *Id.* “A cotenancy is a ‘tenancy under more than one distinct title, but with unity of possession.’” *Id.* She cites, among other cases, *Puget Sound Gillnetters Ass’n v. U.S. District Court for the Western District of Washington*, 573 F.2d 1123, 1126 (9th Cir. 1978), *vacated sub nom.*, *Washington v. Wash. State Commercial Passenger Fishing Vessel Ass’n*, 443 U.S. 658 (1979), where the Ninth Circuit “invoked the cotenancy model to describe shared sovereign rights to migrating salmon.” Wood, *supra* note 861, at 85 & n.226. The most referenced case pertaining to co-trusteeship is *United States v. 1.58 Acres of Land Situated in Boston, Suffolk, Massachusetts*, 523 F. Supp. 120, 123–24 (D. Mass. 1981). See Amicus Curiae Brief, *supra* note 822, at 7 (reviewing the co-trustee/cotenancy model and its application to wildlife and other resources); Wood, *supra* note 861, at 71 & n.149 (stating that the public trust doctrine is not only prevalent in litigation at state level but applies with equal force to the federal government).

⁸⁶³ See, e.g., *Alaska*, 591 F.2d 537, 539 (9th Cir. 1979) (discussing Alaska’s challenge to the Secretary of the Interior’s decision “to close . . . federal lands to [a state-run] wolf-kill program,” which had been “designed to relieve pressure upon the caribou herd”).

provide another example.⁸⁶⁴ In the Frank Church River of No Return Wilderness, the State of Idaho undertook actions to protect elk from wolves and did so in complete contravention of the Wilderness Act.⁸⁶⁵

In these cases, and others, those outside interests challenging federal agency action/inaction on state wildlife management express a deep mistrust in a state's willingness to protect nongame species and predators. Clearly, some interests prefer federal management, or continued protection under the ESA or federal land law, because they believe that most states prioritize the management of fish and game and the revenue it produces through their license-based funding systems.

This is one reason why it is important for the states to find a more secure and predictable stream of funding for nongame management. Increased funding for nongame species would build capacity at the state level and help harmonize federal-state responsibilities over wildlife on federal lands. It is also necessary to broaden the base of wildlife funding at the state level. Doing so would bring states closer to the principles of wildlife trust management. Jacobson and others get to the crux of the matter:

According to the [public trust doctrine], wildlife is owned by no one and held in trust for the benefit of all, but with the user pay-benefit model, those who both derive direct benefits from wildlife and fund wildlife conservation from user fees may believe they have the only legitimate voice in governance of public wildlife conservation and management. Further, this model logically encourages those who pay via licenses and permits for the privilege of using wildlife to expect greater benefits than those who do not pay. This is a potentially fatal, deeply rooted inconsistency between rhetoric and reality in wildlife management in the United States, given the core premise of the [public trust doctrine] that wildlife is a public resource and no single stakeholder group should benefit from wildlife management more than others.⁸⁶⁶

It is beyond the scope of this Article to comprehensively address the North American Model of Wildlife Conservation. But, we were surprised to find the Model referenced so often in the cases examined, as it is merely a set of principles and is not based in law or regulation.⁸⁶⁷ Its frequent invocation by AFWA and the states is problematic, from providing a

⁸⁶⁴ See, e.g., *Wilderness Watch*, 229 F. Supp. 3d 1170, 1174, 1182–83 (D. Idaho 2017) (finding that USFS's approval of the efforts made by the Idaho Department of Fish and Game's (IDFG) to collar elk violated NEPA and the Wilderness Act), *amended by* No. 4:16-CV-012-BLW, 2017 WL 3749441 (D. Idaho Aug. 30, 2017); *Maughan v. Vilsack*, No. 4:14-CV-0007-EJL, 2014 WL 12605649, at *1–2 (D. Idaho July 25, 2014) (discussing plaintiffs' claim that a wolf trapping and hunting program conducted by IDFG in a wilderness area violated NFMA, NEPA, the Wilderness Act, and other federal laws).

⁸⁶⁵ *Wilderness Watch*, 229 F. Supp. 3d at 1174, 1182–83.

⁸⁶⁶ Cynthia A. Jacobson et al., *A Conservation Institution for the 21st Century: Implications for State Wildlife Agencies*, 74 J. WILDLIFE MGMT. 203, 205–06 (2010).

⁸⁶⁷ See *supra* notes 56–57 and accompanying text.

particularly narrow and hunting-centric view of conservation history to asserting the power and authority of the states to regulate wildlife.⁸⁶⁸

First, the Model is often used to emphasize the importance of hunting, hunter access, and the significance of license-based revenue for state wildlife agencies.⁸⁶⁹ This exacerbates the potential for intergovernmental conflict by displaying an institutional bias toward game species and hunters, primarily because of the role hunters play in funding state wildlife agencies. Instead of building bridges between federal and state governments, the Model is wielded to draw distinctions between federal and state priorities.

In addition, the Model further undermines the potential for cooperative federalism by failing to include a principle focused on habitat and the role played by federal lands in the conservation of wildlife. As detailed above, federal lands and the habitat they provide are increasingly significant to biodiversity.⁸⁷⁰ Any story of wildlife conservation failing to acknowledge the contribution of federal lands—and the laws and regulations governing them—is woefully incomplete.

Another problem is that while the Model has a principle regarding wildlife as an international resource, it includes no such principle related to intergovernmental cooperation within the United States.⁸⁷¹ This makes little sense because of the transboundary and interjurisdictional nature of wildlife conservation. Some proponents of the Model suggest that it “must be viewed as a dynamic set of principles that can grow and evolve” and that its “future rests to a high degree on the adaptability and application of its principles to contemporary wildlife conservation needs.”⁸⁷² If so, the Model must consider more seriously how states can cooperate, as co-trustees, with federal and tribal governments in the conservation of wildlife.

C. The Department of Interior’s Policy Statement on Federal-State Relationships

In Part III.B.5.c, we reviewed the Interior Department’s 1983 policy statement and regulations on federal-state relations in wildlife policy. Although the Policy appears in the Code of Federal Regulations “as a matter of convenience to the public,”⁸⁷³ it was not subject to the rulemaking

⁸⁶⁸ See, e.g., Brief for the Ass’n of Fish & Wildlife Agencies as Amicus Curiae in Support of Petitioners, *supra* note 8, at 10 (referencing the Model to assert, “States have legal authority to manage fish and wildlife within their borders, except for federally protected species”); see also discussion *supra* Part II.C (providing examples of the Model’s role in various cases).

⁸⁶⁹ See, e.g., Kennedy Speech, *supra* note 767, at 1, 6 (invoking the Model, on behalf of the Wyoming Game and Fish Department and AFWA’s State-Federal Relations Committee, to criticize management of federal wilderness areas because of restrictions on types of hunter use and access).

⁸⁷⁰ See *supra* notes 784–788 and accompanying text.

⁸⁷¹ ORGAN ET AL., *supra* note 31, at 19.

⁸⁷² *Id.* at 29.

⁸⁷³ Department of the Interior Fish and Wildlife Policy; State-Federal Relationships, 48 Fed. Reg. 11,642, 11,642 (Mar. 18, 1983) (to be codified at 43 C.F.R. pt. 24).

requirements of the Administrative Procedure Act⁸⁷⁴ (APA),⁸⁷⁵ and as such does not carry the force of law.⁸⁷⁶ Despite its lack of weight, the Policy—which is not a bona fide regulation—was referenced in several of the cases we examined as part of this research and is frequently cited by agency officials.⁸⁷⁷

Most of the provisions reiterate basic principles of federalism as applied to wildlife management on federal lands with references to the Property, Commerce, Treaty, and Supremacy Clauses of the U.S. Constitution.⁸⁷⁸ The Policy also provides that fish and wildlife “are held in public trust by the Federal and State governments for the benefit of present and future generations of Americans.”⁸⁷⁹ It makes clear that “Congress may choose to preempt State management of fish and wildlife on Federal lands,” but then asserts that Congress nonetheless “reaffirmed the basic responsibility and authority of the States to manage fish and resident wildlife on Federal lands.”⁸⁸⁰

The most plausible construction of this language is that the states manage wildlife (including regulating hunting, fishing, and trapping) up to the point where the federal government determines that state-regulated activities conflict with federal law and regulation. This construction comports with our review of the case law in Part III.A, which expresses the vast constitutional powers held by Congress to conserve wildlife on federal lands.

A separate provision of the Department of Interior’s Policy muddies the water, however, by purporting to “reaffirm the basic role of the States in fish and resident wildlife management, especially where States have primary authority and responsibility, and to foster improved conservation of fish and wildlife.”⁸⁸¹ The word “primary” is not defined, and it is used in an inconsistent fashion throughout the Policy.⁸⁸² Moreover, it is not clear “where” (or when) states have such “primary” authority. In one section, the Policy refers to state wildlife authority as providing a “comprehensive backdrop applicable *in the absence of specific, overriding Federal law*.”⁸⁸³ When placed in context, however, it becomes clear that this provision is merely another type of savings clause, recognizing state authority and

⁸⁷⁴ 5 U.S.C. §§ 551–559, 701–706, 1305, 3105, 3344, 4301, 5335, 5372, 7521 (2012).

⁸⁷⁵ *Id.* § 553.

⁸⁷⁶ *Christensen*, 529 U.S. 576, 587 (2000).

⁸⁷⁷ *See, e.g.*, Final Appropriate Refuge Uses Policy Pursuant to the National Wildlife Refuge System Improvement Act of 1997, 71 Fed. Reg. 36,408, 36,410 (June 26, 2006); *N.M. Dep’t of Game & Fish v. U.S. Dep’t of the Interior*, 854 F.3d 1236, 1243 (2017).

⁸⁷⁸ 43 C.F.R. § 24.3(a) (2016).

⁸⁷⁹ *Id.* § 24.1(b).

⁸⁸⁰ *Id.* § 24.3(a)–(b).

⁸⁸¹ *Id.* § 24.2(a).

⁸⁸² *Compare id.* (“This policy is intended to reaffirm the basic role of the States in fish and resident wildlife management, especially where States have primary authority and responsibility . . .”), *with id.* § 24.4(c) (“Congress in the Federal Land Policy and Management Act . . . reaffirmed the primary authority and responsibility of the States for management of fish and resident wildlife on such lands.”).

⁸⁸³ *Id.* § 24.1(a) (emphasis added).

responsibility where appropriate under existing law, and where appropriate to achieve the objective of “improved conservation of fish and wildlife.”⁸⁸⁴

The Policy is more problematic with respect to lands managed by BLM, where it asserts, without citing any specific statutory provision, that FLPMA “explicitly recognized and reaffirmed the primary authority and responsibility of the States for management of fish and resident wildlife on such lands.”⁸⁸⁵ The problem is that FLPMA did no such thing. The word “primary” is not used in the statute nor is it implied.⁸⁸⁶ And, the regulations cannot “reaffirm” a principle of federalism that does not exist today and did not exist at the time of FLPMA’s enactment.⁸⁸⁷ Furthermore, as we discuss in Part III.B.5.c, FLPMA’s savings clause does nothing to enlarge or diminish state responsibilities for wildlife management on federal lands, and it explicitly reserves to the Secretary of Interior the authority to prohibit hunting and fishing for reasons of public safety, administration, and compliance with applicable laws.⁸⁸⁸

The Department of Interior’s Policy on federal-state relations, particularly for BLM lands, represents an erroneous interpretation of the law. In its entirety, as currently written, the Policy is internally inconsistent, easily misconstrued, and provides little practical guidance because it does not sort through the fundamental tensions involved in managing wildlife on federal lands. To the extent it attempts to provide guidance, it is confusing and, in some passages, plainly contrary to law.⁸⁸⁹ Although it is fair to say that states may manage wildlife on federal lands unless state management strategies or measures conflict with federal prerogatives, neither BLM nor

⁸⁸⁴ *Id.* § 24.2(a).

⁸⁸⁵ *Id.* § 24.4(c).

⁸⁸⁶ Confusing matters even further, in another section of the same provision, the Department of the Interior acknowledges its responsibility for multiple-use management as defined in FLPMA, “including fish and wildlife *conservation*.” *Id.* (emphasis added).

⁸⁸⁷ Much of what eventually became FLPMA can be traced to the work of the Public Lands Law Review Commission whose recommendations were published as *One Third of the Nation’s Land* in 1970. See generally PUB. LAND LAW REVIEW COMM’N, *supra* note 776. The Commission’s chapter on fish and wildlife management demonstrates what was understood to be the balance of federal-state power prior to FLPMA’s passage in 1976. Far from affirming the “primary authority” of the states to manage wildlife on federal lands, the Commission emphasized the extent of federal powers to preempt the states. *Id.* at 158. Referenced within their recommendations pertaining to fish and wildlife is a 1964 opinion by the Solicitor of the Interior stating that “regulation of the wildlife populations on federally owned land is an appropriate and necessary function of the Federal Government when the regulations are designed to protect and conserve the wildlife as well as the land,” concluding that “this authority is superior to that of a state.” *Id.* (quoting 71 Interior Dec. 469, 473, 476 (1964)).

⁸⁸⁸ FLPMA, 43 U.S.C. § 1732(b) (2012).

⁸⁸⁹ See APA, 5 U.S.C. § 706(2) (2012) (directing courts to set aside agency actions that are “not in accordance with law” or “contrary to constitutional right, power, privilege, or immunity”); *United States v. Mead Corp.*, 533 U.S. 218, 234–35 (2001) (finding that informal agency interpretations are not entitled to *Chevron* deference but only receive the level of deference “proportional to its ‘power to persuade’” (quoting *Skidmore v. Swift & Co.*, 323 U.S. 134, 140 (1944))).

the Department of Interior has the authority to rewrite FLPMA,⁸⁹⁰ much less to redraw the constitutional boundaries of federal and state powers that were so clearly addressed in *Kleppe v. New Mexico*.⁸⁹¹ There, the Supreme Court explained why “‘the complete power’ that Congress has over public lands *necessarily* includes the power to regulate and protect the wildlife living there.”⁸⁹² Accordingly, we recommend that the Policy be corrected, this time using APA rulemaking procedures with adequate notice and meaningful opportunities for all interested stakeholders to comment.

D. Failure to Act: The APA, NEPA, and Beyond

As shown in Part III.A, the constitutional authority of federal land agencies to manage wildlife is well settled, and federal land laws and regulations provide the discretion and sometimes the obligation to conserve wildlife on federal lands. One of the most difficult contemporary questions concerns circumstances where federal agencies have refused to take action to protect wildlife on federal lands.

When states are involved, the general questions tend to be: 1) must the state ask the federal agency for permission to undertake its proposed use of federal land, and 2) if so, what if a state does not do so? The answer to the first question depends on whether the federal agency has a legal duty to act. Such duties may be found in the statutory authorities discussed in Part III.B or in regulations furthering the purposes of those authorities. It is important to distinguish those circumstances where the agency has a duty to act from those where the agency has the authority to act but action is discretionary. A failure to engage in a discretionary act is characterized by law as mere “inaction” while a failure to execute a mandatory duty is characterized as a judicially reviewable “failure to act.”⁸⁹³ The distinction has legal significance with regard to the second question above.

As explained by the Supreme Court in *Norton v. Southern Utah Wilderness Alliance (SUWA)*,⁸⁹⁴ in order for courts “to avoid judicial entanglement in abstract policy disagreements” there must be a “discrete agency action” that an agency is required to take.⁸⁹⁵ There was no duty for BLM to act to prohibit motorized use in wilderness study areas in *SUWA* because the statutory provision at issue in FLPMA “is mandatory as to the object to be achieved, but it leaves BLM a great deal of discretion in deciding

⁸⁹⁰ See 43 U.S.C. §§ 1702(a), 1702(c) (defining the terms “areas of critical environmental concern” and “multiple use” in ways that limit federal land use).

⁸⁹¹ *Kleppe*, 426 U.S. 529, 539–41 (1976).

⁸⁹² *Id.* at 540–41 (emphasis added); see also *supra* notes 145–150 and accompanying text (discussing *Kleppe* in detail).

⁸⁹³ Under the APA, a reviewing court may “compel agency action unlawfully withheld.” 5 U.S.C. § 706(1) (2012). “[A]gency action” is defined as “the whole or a part of an agency rule, order, license, sanction, relief, or the equivalent or denial thereof, or failure to act.” *Id.* § 551(13) (emphasis added). For analysis, see generally Julie Lurman, *Subsistence at Risk: Failure to Act and NEPA Compliance in Post-ANILCA Alaska*, 36 ENVTL. L. 289 (2006).

⁸⁹⁴ 542 U.S. 55 (2004).

⁸⁹⁵ *Id.* at 66.

how to achieve it.”⁸⁹⁶ Similarly, the Department of the Interior had no duty under FLPMA to intervene in the State of Alaska’s aerial wolf control program on federal lands in *Defenders of Wildlife v. Andrus* because the statutory language was discretionary; thus, there was no judicially reviewable “failure to act.”⁸⁹⁷

In addition to FLPMA, the plaintiffs in both *SUWA* and *Defenders of Wildlife* alleged violations of NEPA.⁸⁹⁸ The courts determined that where there was simply inaction, NEPA procedures were not required.⁸⁹⁹ Conversely, failure to act when there is a legal obligation to do so may trigger NEPA.⁹⁰⁰ While NEPA itself does not compel any particular federal action, a NEPA analysis is required whenever a federal action is otherwise compelled by law—whether the agency engages in that action or fails to do so.⁹⁰¹ Moreover, “[n]onfederal actors may . . . be enjoined under NEPA if their proposed action cannot proceed without the prior approval of a federal agency.”⁹⁰²

As described in Part III.B, the federal agencies have, where necessary, determined through regulations the circumstances where permits or other approvals are required prior to the use and occupancy of federal lands. In general, failure by a federal agency to require the necessary approval represents a “failure to act” and may result in the non-permitted activity being enjoined.⁹⁰³

In *Maughan v. Vilsack*,⁹⁰⁴ a court declined to enjoin the State of Idaho from contracting to kill wolves in a national forest wilderness area.⁹⁰⁵ However, the court cautioned that its decision was only for the purposes of

⁸⁹⁶ *Id.* at 59–61, 66.

⁸⁹⁷ *Def. of Wildlife*, 627 F.2d 1238, 1239–40, 1249–50 (D.C. Cir. 1980) (citing 43 U.S.C. § 1732). Claimants also do not appear to be able to sue a state based on federal inaction. *See Wilderness Soc’y v. Kane County*, 632 F.3d 1162, 1169–71 (10th Cir. 2011) (explaining that environmental groups had no rights in federal lands that would give them standing to challenge defendant county’s actions on those lands based on preemption under the Supremacy Clause of the U.S. Constitution).

⁸⁹⁸ *SUWA*, 542 U.S. at 61; *Def. of Wildlife*, 627 F.2d at 1240.

⁸⁹⁹ *SUWA*, 542 U.S. at 73; *Def. of Wildlife*, 627 F.2d at 1245, 1247.

⁹⁰⁰ *See* 40 C.F.R. § 1508.18 (2016) (defining “actions” subject to NEPA as including “circumstance[s] where the responsible officials fail to act and that failure to act is reviewable” under the APA or otherwise).

⁹⁰¹ *Robertson v. Methow Valley Citizens Council*, 490 U.S. 332, 350 (1989); *see* Lurman, *supra* note 893, at 294–95 (explaining that NEPA attaches “if action were *mandated* (under a separate statute) but that action was not taken . . . this is failure to act”).

⁹⁰² *Fund for Animals, Inc. v. Lujan*, 962 F.2d 1391, 1397 (9th Cir. 1992).

⁹⁰³ *See id.* Such injunctions are not limited to NEPA violations. *See* *Karuk Tribe of Cal. v. U.S. Forest Serv.*, 681 F.3d 1006, 1016, 1030 (9th Cir. 2012) (holding that USFS’s approval of Notices of Intent to mine constituted “agency action” under the ESA and thus required consultation); *Dubois v. U.S. Dep’t of Agric.*, 102 F.3d 1273, 1283, 1299–1301 (1st Cir. 1996) (expansion of ski resort enjoined where USFS failed to require a National Pollutant Discharge Elimination System permit).

⁹⁰⁴ No. 4:14-CV-0007-EJL, 2014 WL 201702 (D. Idaho Jan. 17, 2014).

⁹⁰⁵ *Id.* at *1, *5 (accepting, for the purpose of the temporary restraining order and injunction analysis, the USFS’s conclusion that “the activity is regulated by a State agency in a manner adequate to protect the lands and resources,” which is one of the exceptions found in the USFS’s special use permit regulations).

a temporary restraining order, and “USFS has not yet reached a determination regarding the [Idaho Fish and Game] program let alone concluded that a special use permit is required.”⁹⁰⁶ Until that time, there was no federal action subject to NEPA.⁹⁰⁷ In *Wilderness Watch v. Vilsack*,⁹⁰⁸ the same court enjoined the use of data obtained by the State of Idaho under a special use permit to use helicopters in the same wilderness area.⁹⁰⁹ It concluded that the State “must obtain approval from [USFS] before undertaking [its] project in the [w]ilderness [a]rea,” and “that any action taken by [Idaho] without [USFS] approval would be contrary to the Wilderness Act.”⁹¹⁰

In *Friends of Columbia Gorge, Inc. v. Elicker*,⁹¹¹ the United States District Court for the District of Oregon construed the USFS special use permit regulations to apply to approval of a reintroduction plan that would use federal land to establish a population of mountain goats in the Columbia Gorge National Scenic Area.⁹¹² For this and other reasons, USFS was required to comply with NEPA.⁹¹³ In Utah, the state released mountain goats on land adjacent to the Manti-La Sal National Forest, which proceeded to occupy a research natural area on the national forest that was designated to protect plant species that would be vulnerable to trampling.⁹¹⁴ These species included three plant species listed as “sensitive” by USFS.⁹¹⁵ The United States District Court for the District of Utah held that “allowing” the mountain goats on national forest land was not a federal agency action, and that the same special use permit regulations did not require such permits

⁹⁰⁶ *Id.* at *5.

⁹⁰⁷ *See id.* at *6 (explaining that USFS’s failure to require an EIS was not a final agency action).

⁹⁰⁸ 229 F. Supp. 3d 1170, 1183 (D. Idaho 2017), *amended by* No. 4:16-CV-012-BLW, 2017 WL 3749441 (D. Idaho Aug. 30, 2017).

⁹⁰⁹ *Id.* at 1177, 1183.

⁹¹⁰ *Id.* at 1182 (referencing Wilderness Act, 16 U.S.C. § 1133(c) (2012)). The injunction was based in part on a violation of NEPA. *Id.* In Part III.B.7.a.iii, *infra*, we assess other issues posed by this case, in particular, the Wilderness Act’s requirement that USFS make a finding that the activity is “necessary to meet minimum requirements for the administration of the area” before issuing its approval. *But cf.* *WildEarth Guardians v. U.S. Forest Serv.*, No. 4:14-cv-00488-REB, 2017 WL 1217099, at *1 & n.2, *5–9 (D. Idaho Mar. 31, 2017) (Predator hunting “derbies” organized by private parties and occurring on national forest lands did not meet any of the regulatory criteria requiring a special use authorization, and did not have effects subject to NEPA. However, the court struck documents submitted by plaintiffs suggesting such permits had been issued by USFS for six other organized hunts. BLM was initially a defendant in this case but the parties reached an agreement to settle those claims, regarding different regulatory language, out of court.).

⁹¹¹ 598 F. Supp. 2d 1136 (D. Or. 2007), *vacated*, No. 05-CV-646-BR, 2011 WL 3205773 (D. Or. July 27, 2011).

⁹¹² *Id.* at 1153, 1159; *see also* 36 C.F.R. § 251.50 (2016) (describing USFS’s special use permitting system).

⁹¹³ *Friends of Columbia Gorge*, 598 F. Supp. 2d at 1155.

⁹¹⁴ *Utah Native Plant Soc’y v. U.S. Forest Serv.*, No. 2:16-cv-56-PMW, 2017 WL 822098, at *1–2 (D. Utah Mar. 2, 2017), *appeal filed*, No. 17-4074 (10th Cir. May 4, 2017).

⁹¹⁵ *Id.* at *1.

“every time state-managed wildlife enters federal land.”⁹¹⁶ These cases indicate that it is incumbent on the land managers to evaluate any state action against the regulatory criteria for permits so that they can properly authorize (or deny) the use and occupancy of federal lands.

As noted in Part III.B, federal agencies are encouraged to complete MOUs with the states for cooperative management of fish and wildlife resources. It is the purpose of these MOUs to clearly delineate the authorities of the parties and assign responsibilities among them, and this should include identification of actions that would require a permit. It is critical that the assignment of authorities reflect the legal principles described above. Moreover, the MOU process should not be used to relinquish federal authorities without recognizing that such decisions may constitute actions subject to federal procedures required by the ESA or NEPA.⁹¹⁷ The agencies should expect scrutiny of the assignment of blanket authority to states using MOUs.⁹¹⁸ For example, the relinquishment of federal authority to manipulate water levels in a national wildlife refuge was enjoined because it constituted a federal action subject to NEPA.⁹¹⁹ Similarly, an MOU that delegated authority to the state to assert federal reserved water rights in the Black Canyon of the Gunnison violated the federal agency’s nondiscretionary duties to protect federal resources.⁹²⁰ Conversely, BLM’s decision to relinquish management of elk feeding grounds to the State of Wyoming through an MOU rather than through land use permits was upheld in *Greater Yellowstone Coalition v. Tidwell*⁹²¹ because FLPMA authorized BLM to enter into such agreements, rendering a permit requirement superfluous.⁹²² The court also affirmed the applicability of NEPA to the MOU in lieu of the permit process.⁹²³

⁹¹⁶ *Id.* at *4, *9, *11. However, the court also indicated that USFS would have authority to remove the goats and would “need to take a position” after sufficient study. *Id.* at *7. USFS had earlier told the state it objected to the reintroduction. *Id.* at *1–2. The authority to remove wildlife was established in *Hunt*, 278 U.S. 96, 100 (1928), and *Kleppe*, 426 U.S. 529, 545–46 (1975).

⁹¹⁷ *See Defs. of Wildlife*, 627 F.2d 1238, 1244 (D.C. Cir. 1980) (“[E]xamples of federal ‘permission’ [requiring compliance with NEPA] were such concrete acts as decisions ‘to issue a lease, approve a mining plan, issue a right-of-way permit, or *take other action to allow private activity*’” (omission in original) (quoting *Kleppe*, 427 U.S. at 399)).

⁹¹⁸ *See Gallatin Wildlife Ass’n v. U.S. Forest Serv.*, No. CV-15-27-BU-BMM, 2016 WL 3282047, at *9–10 (D. Mont. June 14, 2016) (finding NEPA violations in an EIS for a Forest Plan where USFS failed to disclose MOUs with the State of Montana and grazing permittees that acknowledged that the state would allow permittees to kill bighorn sheep to prevent comingling with domestic sheep), *appeal filed*, No. 16-35665 (9th Cir. filed Aug. 19, 2016).

⁹¹⁹ *Bunch v. Hodel*, 642 F. Supp. 363, 365 (W.D. Tenn. 1985); *see also High Country Citizens’ All.*, 448 F. Supp. 2d 1235, 1242–43, 1249 (D. Colo. 2006) (holding that the relinquishment of a federal reserved water right was an agency action subject to judicial review).

⁹²⁰ *High Country Citizens’ All.*, 448 F. Supp. 2d at 1241–42, 1245, 1253 (“A permanent relinquishment of a water right with a 1933 priority date for such a scientifically, ecologically and historically important national park must be viewed as a major action requiring compliance with NEPA.”).

⁹²¹ 572 F.3d 1115 (10th Cir. 2009).

⁹²² *Id.* at 1119, 1127–28.

⁹²³ *Id.* at 1128.

An important take-away point is that MOUs cannot be used to evade legal obligations.⁹²⁴ Neither can they change a regulatory requirement, as that can only be done through APA rulemaking, nor can MOUs be used to alter statutory provisions, as that power is reserved to Congress.⁹²⁵ As a subsidiary point, if a federal agency were to use an MOU to transfer authority to a state to undertake actions that would be subject to federal requirements, such as those required by the ESA or NEPA, those requirements would attach to the MOU decision itself because that decision would constitute “affirmative conduct” necessary before a nonfederal actor could proceed.⁹²⁶

E. The National Wilderness Preservation System

While all agencies have the authority to assert federal supremacy over the management of fish and wildlife on federal lands in order to fulfill their statutory mission, in federal wilderness areas the affirmative obligation to preserve wilderness character—including fish and wildlife species within wilderness areas—is mandated to the federal land-managing agency.⁹²⁷

Courts have pointed out, “the Wilderness Act is as close to an outcome-oriented piece of environmental legislation as exists. Unlike NEPA, . . . the Wilderness Act emphasizes outcome (wilderness preservation) over procedure.”⁹²⁸ That outcome, as detailed above in Part III.B.7, is one where an area’s wilderness character is protected in full, meaning as far as possible, without human manipulation; where otherwise-prohibited uses are limited only to those necessary for the purpose of preserving that area’s wilderness character; where all commercial uses are prohibited, except those commercial services necessary for realizing *wilderness* purposes; and where each federal agency recognizes that whatever the original reason for an area’s designation, once it is also designated as wilderness, management must conform to the Wilderness Act. Moreover, where subsequent legislation mentions wildlife management, those provisions must be read in tandem with the Wilderness Act, keeping in mind “the elementary rule” of

⁹²⁴ See *id.* at 1125, 1128 (requiring compliance with NEPA when a federal agency enters into an MOU).

⁹²⁵ See, e.g., *High Country Citizens’ All.*, 448 F. Supp. 2d at 1249, 1252 (“This Court finds that the effect of the [MOUs] was actually to remove the administration of the Black Canyon resources from the National Park Service in direct contravention of [federal law].”); *Greater Yellowstone Coal.*, 572 F.3d at 1127 (explaining that FLPMA requires BLM to “ensure the uses approved through cooperative agreements are in compliance with other statutes imposing limitations on the uses of federal land and the activities of federal agencies”).

⁹²⁶ See *Mineral Policy Ctr. v. Norton*, 292 F. Supp. 2d 30, 54–55 (D.D.C. 2003) (explaining that “whether the federal agency must undertake ‘affirmative conduct’ before the non-federal actor may act” is a factor in determining whether an action is a “major Federal action”).

⁹²⁷ *Wilderness Watch*, 229 F. Supp. 3d 1170, 1181–82 (D. Idaho 2017) (“Congress made preservation of wilderness values ‘the primary duty of [USFS], and it must guide all decisions as the first and foremost standard of review for any proposed action.’” (quoting *Greater Yellowstone Coal.*, CV-06-04-E-BLW, 2006 WL 3386731, at *6 (D. Idaho Nov. 21, 2006))), *amended by* No. 4:16-CV-012-BLW, 2017 WL 3749441 (D. Idaho Aug. 30, 2017).

⁹²⁸ *High Sierra Hikers Ass’n*, 436 F. Supp. 2d 1117, 1138 (E.D. Cal. 2006).

statutory construction that exceptions to the Act's overarching preservation mission are to be construed narrowly.⁹²⁹

We have reviewed dozens of agency-approved or state-proposed wildlife management actions in wilderness areas, and where errors in stewardship have been made we observed certain trends. It has long been noticed that the most common flaw in making a minimum requirements analysis or other evaluation document is that they are often “[w]ritten to support a pre-determined decision” where preserving wilderness character is not the default conclusion.⁹³⁰ But beyond that, we have observed a fundamental misunderstanding of many facets of the law and an apparent willingness to skirt legal obligations so as to accommodate more political desires. Two illustrative examples are analyzed below.

In 2007, FWS and the Arizona Game and Fish Department (AGFD) proposed to build two new wildlife waters in the Kofa Wilderness in Arizona, in addition to the sixty-five waters previously developed, to halt bighorn sheep population decline.⁹³¹ FWS authorized the construction as a project categorically excluded from detailed environmental analysis under NEPA.⁹³² It made a rudimentary minimum requirements analysis⁹³³ and approved the construction.⁹³⁴ The Ninth Circuit found that FWS had not provided a reasoned determination of necessity in employing the prohibited use of an installation.⁹³⁵ Its opinion created a litmus test for a minimum requirements analysis:

[A] *generic* finding of necessity does not suffice; the Service must make a finding that the structures are “necessary” to meet the “*minimum* requirements for the administration of the area . . .” [T]he key question—whether water structures were necessary at all—remains entirely unanswered . . . [T]he Service’s own . . . [Investigative Report] identified many different actions [FWS could have taken]. . . . Importantly, in contrast to the creation of new structures within the wilderness, the Wilderness Act does not prohibit any of

⁹²⁹ *Spokane & Inland Empire R.R. Co. v. United States*, 241 U.S. 344, 350 (1916) (“[E]xceptions from a general policy which a law embodies should be strictly construed, that is, should be so interpreted as not to destroy the remedial processes intended to be accomplished by the enactment.”); see *Wilderness Watch v. U.S. Forest Serv.*, 143 F. Supp. 2d 1186, 1206 (D. Mont. 2000); see also discussion *supra* Part III.B.7.b (discussing subsequently enacted, site-specific wilderness legislation).

⁹³⁰ WILDERNESS ADVISORY GRP., U.S. FOREST SERV., MINIMUM REQUIREMENTS ANALYSIS: FAQs AND COMMON ERRORS 16 (2015), <https://perma.cc/Q5MG-JNTV>.

⁹³¹ KOFA NAT’L WILDLIFE REFUGE & ARIZ. GAME & FISH DEP’T, INVESTIGATIVE REPORT AND RECOMMENDATIONS FOR THE KOFA BIGHORN SHEEP HERD 8–10, 23 (2007), <https://perma.cc/B362-GJUZ> [hereinafter KOFA INVESTIGATIVE REPORT]; U.S. FISH & WILDLIFE SERV., KOFA NATIONAL WILDLIFE REFUGE & WILDERNESS AND NEW WATER MOUNTAINS WILDERNESS INTERAGENCY MANAGEMENT PLAN AND ENVIRONMENTAL ASSESSMENT 43–44 (1996).

⁹³² KOFA NAT’L WILDLIFE REFUGE, U.S. FISH & WILDLIFE SERV., CATEGORICAL EXCLUSION: YAQUI AND MCPHERSON TANKS REDEVELOPMENT PROJECTS (2007), <https://perma.cc/6P7L-EJ46> [hereinafter REDEVELOPMENT CX].

⁹³³ *Id.*

⁹³⁴ See *Kofa*, 629 F.3d 1024, 1031 (9th Cir. 2010) (describing the minimal analysis and the construction process).

⁹³⁵ *Id.* at 1037.

those actions. . . . Yet nowhere in the record does the Service explain why those actions, alone or in combination, are insufficient to restore the population of bighorn sheep. . . . The documents as a whole demonstrate that the Service began with the assumption that water structures are necessary and reasoned from that starting point.⁹³⁶

Subsequently, FWS released a formal determination that concluded it was necessary to have built these two more wildlife waters in addition to the sixty-five already developed because the installations need to be no more than three miles apart for “[o]ptimal distribution of water, especially for lactating ewes.”⁹³⁷

In the meantime, FWS authorized the killing of certain mountain lions in the Kofa Wilderness to limit predation on bighorns.⁹³⁸ The rationale was that “[a]lthough mountain lions are also a natural wildlife resource, . . . mountain lion predation is likely additive to other sources of mortality and sufficient to prevent [FWS] from attaining bighorn sheep population objectives.”⁹³⁹ The explicit bighorn population objectives were “based on . . . the need to maintain a population large enough . . . to support regional and landscape level transplant programs,” and to make it easier for hunters to locate “trophy rams.”⁹⁴⁰ The minimum requirements analysis correctly identified the No Action alternative as the one that would best protect wilderness character.⁹⁴¹ However, the Preferred Alternative—the removal of “offending” lions—was chosen.⁹⁴² This choice, as with others made in this series of decisions, was based on supporting analyses that were fundamentally flawed.

One of the new tanks (Yaqui) is itself outside the wilderness, and only part of the catchment system is within the wilderness.⁹⁴³ The Yaqui could have been constructed without a catchment system, with water supplied by a tanker on the adjacent road outside the wilderness.⁹⁴⁴ As constructed, the Yaqui tank cannot have been the minimum necessary under any

⁹³⁶ *Id.* at 1037–38 (citation omitted). The court listed the options that should have been analyzed, including eliminating hunting, cancelling the transplant program, and killing predators. *Id.* at 1037.

⁹³⁷ KOFA NAT’L WILDLIFE REFUGE, U.S. FISH & WILDLIFE SERV., NECESSITY DETERMINATION: CONSTRUCTION OF THE MCPHERSON AND YAQUI WILDLIFE WATER CATCHMENTS 1, 4 (2014), <https://perma.cc/DR8D-G24N> [hereinafter NECESSITY DETERMINATION].

⁹³⁸ *See* KOFA NAT’L WILDLIFE REFUGE, U.S. FISH & WILDLIFE SERV., FINAL ENVIRONMENTAL ASSESSMENT: LIMITING MOUNTAIN LION PREDATION ON DESERT BIGHORN SHEEP ON THE KOFA NATIONAL WILDLIFE REFUGE 5 (2009), <https://perma.cc/22WH-ZAFU> [hereinafter LION EA] (analyzing various alternatives for limiting mountain lion predation on desert bighorn sheep, including the removal of certain mountain lions that have “killed two or more desert bighorn sheep within a six-month period”).

⁹³⁹ *Id.*

⁹⁴⁰ *Id.* at 7, 10.

⁹⁴¹ *Id.* at 112–13.

⁹⁴² *Id.* at 104, 114.

⁹⁴³ REDEVELOPMENT CX, *supra* note 932, at 3.

⁹⁴⁴ *See id.* (“The Yaqui Tank Redevelopment Project is planned to take place immediately adjacent to the designated road that follows Moonshine Wash and as a result, is nearly all within the 200-foot-wide area that is outside of designated Wilderness.”).

circumstance. Yet, FWS claims these two particular installations are among only twenty-four critical for bighorn survival in the Kofa National Wildlife Refuge.⁹⁴⁵ At the least, that would mean all the remaining wildlife water developments in the Kofa Wilderness fail the test of “necessity” by FWS’s own analysis. Therefore, these developments cannot be maintained and should be removed, since their presence manipulates the “community of life,” creates unnatural conditions in the desert environment, and violates the wilderness definition as “undeveloped Federal land retaining its primeval character and influence.”⁹⁴⁶

In addition, killing predators, while not explicitly prohibited by the Wilderness Act, is implicitly prohibited as an action that trammels “the earth and its community of life.”⁹⁴⁷ Perhaps in response to the vastly greater number of pictures of predators and mule deer than of bighorn sheep recorded at the guzzlers,⁹⁴⁸ FWS wrote: “Desert bighorn sheep will likely use the new water sources more frequently as they become familiar with the location of the waters.”⁹⁴⁹ There is no discussion of how the predators and mule deer became familiar with the locations so much faster than the sheep. To decrease predation on sheep, it would be more consistent with the area’s wilderness character to stop providing supplemental water for bighorn predators and their alternate prey that appear to be less well-adapted to the harsh desert environment of the Kofa Wilderness than desert bighorn sheep.⁹⁵⁰

In the end, these errors are dwarfed by the fundamental mistake of skewing management of the Kofa Wilderness to meet a population goal of 800 bighorns—“considered the carrying capacity of the refuge”—with the objective to re-establish them as a “transplant source herd.”⁹⁵¹ To do so, AGFD and FWS determined that they needed to provide water in all areas of suitable sheep habitat, including areas that were otherwise “unavailable” for sheep due to the absence of water sources.⁹⁵² Maximizing production is an

⁹⁴⁵ See KOFA INVESTIGATIVE REPORT, *supra* note 931, at 32 tbl.2 (listing twenty-four “[c]ritical bighorn sheep waters on the Kofa [National Wildlife Refuge],” including Yaqui and McPherson tanks).

⁹⁴⁶ Wilderness Act, 16 U.S.C. § 1131(c) (2012).

⁹⁴⁷ See KIW, *supra* note 636, at 7 (stating that the untrammelled quality of wilderness “is degraded by modern human activities or actions that control or manipulate the components or processes of ecological systems inside the wilderness”); see also *supra* notes 638–641 and accompanying text (analyzing the untrammelled nature of wilderness).

⁹⁴⁸ Author Chris Barns, in analyzing the remote camera studies of the two new guzzlers, found that in the first year bighorn were seen utilizing the guzzlers only twice. The three top predators of bighorns (lions, bobcats, and coyotes) were documented at the installations over 500 times; mule deer were photographed over 800 times.

⁹⁴⁹ NECESSITY DETERMINATION, *supra* note 937, at 1.

⁹⁵⁰ See *id.* at 6 (describing how bighorn sheep can survive up to fifteen days without drinking water during the hot summer months); Bill Broyles & Tricia L. Cutler, *Effect of Surface Water on Desert Bighorn Sheep in the Cabeza Prieta National Wildlife Refuge, Southwestern Arizona*, 27 WILDLIFE SOC’Y BULL., 1082, 1085 (1999) (finding that the availability of perennial surface water did not affect bighorn populations on another desert wilderness refuge).

⁹⁵¹ KOFA INVESTIGATIVE REPORT, *supra* note 931, at 14, 19.

⁹⁵² *Id.* at 9.

agricultural model, not a wilderness model. In nature, not every nook and cranny is filled with a “desirable” species and devoid of “offending” animals. Although FWS claims that its objective is to “provid[e] the public with the opportunity to view wild sheep in their native habitat,”⁹⁵³ native habitat is not one with artificial water provided every three miles in an area cleansed of predators. Policy guidance from FWS is quite clear: “On wilderness areas within the Refuge System, we conserve fish, wildlife, and plants by preserving the wilderness environment.”⁹⁵⁴ In the Kofa Wilderness, FWS has failed to do so by taking actions that degrade its untrammelled quality and that are not the minimum necessary, all for non-wilderness purposes.⁹⁵⁵

Sometimes federal agencies try to apply the law but are opposed not only by state agencies but by wilderness-oriented advocacy groups. In 2011, the Nevada Department of Wildlife (NDOW) requested a multi-year authorization from BLM’s Ely and Southern Nevada District Offices for using helicopters to access wildlife water developments within designated wilderness areas.⁹⁵⁶ BLM failed to undertake any analysis to determine whether any water installations were necessary in the first place. However, in preparation for their draft Environmental Assessment (EA), BLM conducted a minimum requirements analysis on methods of access, concluding that helicopter access was necessary for fifteen of the twenty big game water developments but that the others could be accessed on foot or by horse.⁹⁵⁷ In the comment period following release of the draft EA, comments from an advocacy group supported helicopter access to all of the installations because it would be more economical for NDOW.⁹⁵⁸ In addition

⁹⁵³ NECESSITY DETERMINATION, *supra* note 937, at 2.

⁹⁵⁴ FWS WILDERNESS POLICY, *supra* note 437, § 2.16(A); *see also id.* § 2.16(B)(3) (“All decisions and actions to modify ecosystems, species population levels, or natural processes must be: (a) Required to respond to a human emergency, or (b) The minimum requirement for administering the area as wilderness and necessary to accomplish the purposes of the refuge, *including Wilderness Act purposes*. In addition, such decisions and actions must: (i) Maintain or restore the biological integrity, diversity, or environmental health of the wilderness area; or (ii) Be necessary for the recovery of threatened or endangered species.” (emphasis added)).

⁹⁵⁵ Other agencies have engaged in similar actions based on similarly flawed analyses. *See, e.g.*, U.S. FOREST SERV., PRELIMINARY ENVIRONMENTAL ASSESSMENT FOR AUTHORIZATION OF HELICOPTER LANDINGS IN WILDERNESS 8–9, 16 & tbl.3 (2014) (authorizing up to 450 helicopter landings for capturing bighorn sheep despite almost half of the bighorn habitat being outside wilderness); NAT’L PARK SERV., ISLE ROYALE NATIONAL PARK: DRAFT ENVIRONMENTAL IMPACT STATEMENT TO ADDRESS THE PRESENCE OF WOLVES, at iv, vii (2016), <https://perma.cc/BD8G-CT4G> (identifying a Preferred Alternative that restocks the island with wolves, despite correctly analyzing the No Action Alternative as the one that best preserves wilderness character).

⁹⁵⁶ *See* BUREAU OF LAND MGMT., ENVIRONMENTAL ASSESSMENT: ISSUANCE OF AUTHORIZATIONS TO NEVADA DEPARTMENT OF WILDLIFE FOR WILDLIFE WATER DEVELOPMENT INSPECTION, MAINTENANCE AND REPAIRS WITHIN BLM WILDERNESS AREAS IN NEVADA 1–4 (2011), <https://perma.cc/NWH6-9S52>.

⁹⁵⁷ *Id.* app. A. Access to one of the wildlife waters was determined to be as little as 0.2 miles from the boundary on a closed road. *Id.*

⁹⁵⁸ *See* Shaaron Netherton, Friends of Nevada Wilderness, Comment to *Environmental Assessment: Issuance of Authorizations to Nevada Department of Wildlife for Wildlife Water Development Inspection, Maintenance and Repairs within BLM Wilderness Areas in Nevada* (Dec. 30, 2011) (on file with authors) [hereinafter Friends of Nevada Wilderness Comment] (“[I]n these times of extremely tight budgets . . . we believe it is critical that this EA should help

to prioritizing economics over preservation, the letter contained two other fundamental errors. First, it asserted that NDOW “is responsible for the maintenance of these large game guzzlers.”⁹⁵⁹ To the contrary, at some point after wilderness designation, BLM needed to determine whether each of the water installations is “necessary to meet minimum requirements for the administration of the area” as wilderness.⁹⁶⁰ If so, it is BLM’s responsibility to maintain them—though BLM may ask the state to undertake that responsibility—because preserving wilderness character is solely a federal responsibility.⁹⁶¹ If not, no maintenance can be allowed, and eventually the installations should be removed to comply with the Wilderness Act.⁹⁶²

Second, the letter claimed: “It is clear in both the Clark and Lincoln County legislation that Congress intended that helicopter use be allowed.”⁹⁶³ However, Congress used the word “may” in the legislation, demonstrating its intent that helicopter use be considered, not that it be automatically approved.⁹⁶⁴ Senator Harry Reid specifically noted that while helicopter access may be needed for some monitoring and maintenance, “some guzzlers can be easily accessed after a short hike from a road.”⁹⁶⁵

In the end, BLM authorized NDOW helicopter access to all sites, referring to “[a]dditional information . . . obtained during the comment

facilitate cooperation between the BLM and [NDOW] on the issue of inspection and maintenance of wildlife water developments.”). This instance is not the only time this organization has urged BLM to prioritize nonconforming wildlife developments. See e-mail from Shaaron Netherton, Exec. Dir., Friends of Nev. Wilderness, to Neil Kornze, Bureau of Land Mgmt. (Apr. 1, 2014) (on file with authors) (asking that radio collars no longer be defined as an installation so sportsmen could put them on wildlife in wilderness).

⁹⁵⁹ Friends of Nevada Wilderness Comment, *supra* note 958.

⁹⁶⁰ See Wilderness Act, 16 U.S.C. § 1133(c) (2012) (requiring BLM to do a minimum requirements analysis).

⁹⁶¹ See discussion *supra* Part III.B.7.

⁹⁶² See 16 U.S.C. § 1133(c) (permitting installations only where they are “necessary to meet the minimum requirements for the administration of the area” as wilderness).

⁹⁶³ Friends of Nevada Wilderness Comment, *supra* note 958.

⁹⁶⁴ Lincoln County Conservation, Recreation, and Development Act of 2004, Pub. L. No. 108-424, § 209(c), 118 Stat. 2403, 2412 (“Consistent with section 4(d)(1) of the Wilderness Act . . . the State may continue to use aircraft, including helicopters, to survey, capture, transplant, monitor, and provide water for wildlife populations”); Clark County Conservation of Public Land and Natural Resources Act of 2002, Pub. L. No. 107-282, § 208(c), 116 Stat. 1994, 2005 (similar); see also Tax Relief and Health Care Act of 2006, Pub. L. No. 109-432, § 329(c), 120 Stat. 2922, 3036 (similar). Under the Wilderness Act, preexisting uses of aircraft are “subject to such restrictions as the Secretary . . . deems desirable.” 16 U.S.C. § 1133(d)(1). Those restrictions are set forth in agency policy: “BLM has discretion to either allow or prohibit the continuation of aircraft use where it has already been legally established prior to the designation of a wilderness area. Administrative use of aircraft is normally authorized under section 4(c) of the Wilderness Act, only where it is necessary to meet minimum requirements for the administration of the area for the purpose of the Wilderness Act.” BLM MANUAL, *supra* note 673, § 1.6(C)(2)(b).

⁹⁶⁵ Letter from Harry Reid, U.S. Senator, to Robert A. Abbey, Dir., Bureau of Land Mgmt. (May 27, 2010) (on file with authors).

period” in disregard of the Wilderness Act and BLM’s own analysis.⁹⁶⁶ This result degrades wilderness character by allowing prohibited uses that were shown not to be the minimum necessary—due, in part, to a mistaken reading of the extra special language in designating legislation.

As we have shown, the Wilderness Act unequivocally expresses the federal obligation to assert authority over fish and wildlife to assure the interests of all Americans in the preservation of wilderness character. We are troubled by the cases discussed above, and others, that demonstrate a problematic tendency on the part of some federal land agencies to reflexively acquiesce to state interests when contrary to wilderness law. The federal agencies must renew their dedication to preserving wilderness character.

F. Intergovernmental Cooperation

The states and AFWA have repeatedly asserted that there are not enough opportunities for intergovernmental cooperation in wildlife management and that more opportunities need to be created.⁹⁶⁷ Wildlife conservation absolutely requires intergovernmental cooperation and transboundary thinking beyond political jurisdictions. One early example of such cooperation can be found in the Lacey Act,⁹⁶⁸ which, among other things, provides federal penalties for transporting in interstate commerce any wildlife taken in violation of state law.⁹⁶⁹ Another example is provided by the Pittman-Robertson and Dingell-Johnson Acts, discussed in Part II.B, as both provide significant sources of federal funding for state wildlife management.

There is real value in constructive relationships between federal and state agencies, and we strongly encourage their development. To that end, there are three central points to be made:

- 1) Multiple opportunities for intergovernmental cooperation already exist within federal decision-making processes, but they are not always fully utilized. For instance, the Sikes Act, ESA, FLPMA, NFMA, NWRSA, and several others contain such opportunities.
- 2) Intergovernmental cooperation must be a mutual and reciprocal obligation in order to live up to the name and to be as effective as possible. Therefore, there ought to be equal opportunity for federal entities to comment on and participate in state wildlife management decision-making processes, and that is not always the case.

⁹⁶⁶ BUREAU OF LAND MGMT., DECISION RECORD FOR THE ISSUANCE OF AUTHORIZATIONS TO NEVADA DEPARTMENT OF WILDLIFE FOR WILDLIFE WATER DEVELOPMENT INSPECTION, MAINTENANCE AND REPAIRS WITHIN BLM WILDERNESS AREAS IN NEVADA (2012), <https://perma.cc/7TMU-HPFG>.

⁹⁶⁷ See, e.g., AFWA TASK FORCE REPORT, *supra* note 56, at 22 (suggesting that the cooperative language found in the Sikes Act could be strengthened and extended to all land management agencies).

⁹⁶⁸ Lacey Act Amendments of 1981, 16 U.S.C. §§ 3371–3378 (2012).

⁹⁶⁹ *Id.* § 3373(a).

- 3) Intergovernmental cooperation cannot be a euphemism for the idea that either entity always gets what it wants. It ought to be, and generally is, an opportunity for informing agency decision making in meaningful ways. The law determines which level of government has the final decision-making authority.

1. Existing Opportunities for Intergovernmental Cooperation at the Federal Level

In Part III.B of this Article, it was noted that the authorizing statutes for the various land units already provide multiple opportunities for intergovernmental cooperation at the federal level. For instance, in the NWRSIA and FLPMA's planning and land acquisition programs, substantive opportunities for intergovernmental cooperation are prescribed by statute.⁹⁷⁰ In addition to these opportunities for cooperation are those opportunities provided in other federal statutes and programs, such as NEPA, the Landscape Conservation Cooperative (LCC) network coordinated by FWS, the Joint Ventures program of FWS, and the State Wildlife Grants Program.⁹⁷¹

NEPA presents what is probably the best-known opportunity for intergovernmental cooperation. NEPA declares that it is the policy of the U.S. government to work “in cooperation with State and local governments” to pursue the “conditions under which man and nature can exist in productive harmony.”⁹⁷² To carry out the policy of cooperation, NEPA requires the federal agency conducting an Environmental Impact Statement (EIS) to provide early notification to, and solicit the views of, any state entity which may be significantly impacted.⁹⁷³ Any disagreements about

⁹⁷⁰ See, e.g., National Wildlife Refuge System Improvement Act of 1997, 16 U.S.C. § 668dd(e)(3) (directing FWS to consult with “adjoining Federal, State, local, and private landowners and affected State conservation agencies” when preparing comprehensive conservation plans); FLPMA, 43 U.S.C. § 1701(a)(2) (2012) (“[T]he national interest will be best realized if the public lands and their resources are periodically and systematically inventoried and their present and future use is projected through a land use planning process coordinated with other Federal and State planning efforts.”).

⁹⁷¹ For a review of these and other programs, see Vicky J. Meretsky et al., *A State-Based National Network for Effective Wildlife Conservation*, 62 *BIOSCIENCE* 970, 970–72 (2012) (describing collaborative conservation programs, including the Joint Ventures program and LCC network). See also NEPA, 42 U.S.C. § 4331(a) (2012) (“[I]t is the continuing policy of the Federal Government, in cooperation with State and local governments, and other concerned public and private organizations, to use all practicable means and measures . . . in a manner calculated to foster and promote the general welfare, to create and maintain conditions under which man and nature can exist in productive harmony, and fulfill the social, economic, and other requirements of present and future generations of Americans.”). See generally LANDSCAPE CONSERVATION COOPS., NETWORK STRATEGIC PLAN (2014), <https://perma.cc/4NGE-VU6W> (describing the strategic plan for the LCC network); *Joint Ventures Overview*, U.S. FISH & WILDLIFE SERV., <https://perma.cc/NGY8-AADQ> (last modified Nov. 12, 2015) (providing an overview of the Joint Ventures program); *State Wildlife Grant Program—Overview*, U.S. FISH & WILDLIFE SERV., <https://perma.cc/LKZ9-4QAT> (last updated July 20, 2016) (providing an overview of the State Wildlife Grant Program).

⁹⁷² 42 U.S.C. § 4331(a).

⁹⁷³ *Id.* § 4332(D)(iv).

impacts between federal and state agencies must be enumerated within the EIS.⁹⁷⁴ States may also obtain official cooperating agency status, which requires the lead NEPA agency to “[u]se the environmental analysis and proposals of cooperating agencies with jurisdiction by law or special expertise, to the maximum extent possible consistent with its responsibility as lead agency.”⁹⁷⁵ This provides state governments with much greater access to the federal decision-making processes than the general public enjoys.

One example of successful cooperation wrought by NEPA is the EIS process that was initiated following the *Wyoming v. United States* case about the National Elk Refuge.⁹⁷⁶ In the aftermath of that decision FWS and NPS (which manages neighboring Grand Teton National Park) embarked on a joint-EIS process to develop a plan to guide the management of bison and elk across that federal landscape.⁹⁷⁷ Because of the intergovernmental integration and cooperation made possible by that process, the state chose to incorporate some of the recommendations from the EIS in their own Bison Brucellosis Management Action Plan in 2008.⁹⁷⁸

In an even more focused attempt to encourage integrated management, the LCC program was developed in 2010 in an attempt to facilitate collaboration between all levels of government, including federal, state, local, and tribal governments, as well as interested nongovernmental organizations, in order to “tackle large-scale and long-term conservation challenges.”⁹⁷⁹ There are twenty-two LCCs in the network.⁹⁸⁰ Each is self-directed by a voluntary steering committee, though the whole enterprise is coordinated through FWS.⁹⁸¹ The goals of the LCC program are to develop “science-based information about the implications of climate change and other stressors . . . ; [d]evelop shared, landscape-level conservation objectives and . . . strategies . . . ; [f]acilitate [scientific exchange]; [m]onitor and evaluate the effectiveness of LCC . . . strategies . . . ; [and d]evelop . . . linkages” between LCCs.⁹⁸² A 2015 National Academy of Sciences review concluded that the LCC program provided a framework for achieving landscape-level cooperation and “recognized the LCCs’ ability to create opportunities for identifying common conservation goals and leveraging

⁹⁷⁴ *Id.*

⁹⁷⁵ 40 C.F.R. § 1501.6(2) (2016).

⁹⁷⁶ See *supra* notes 151–154 and accompanying text.

⁹⁷⁷ U.S. FISH & WILDLIFE SERV. & NAT’L PARK SERV., FINAL BISON AND ELK MANAGEMENT PLAN AND ENVIRONMENTAL IMPACT STATEMENT 3 (2007), <https://perma.cc/7VUM-BETP>.

⁹⁷⁸ WYO. GAME & FISH DEP’T, JACKSON BISON HERD (B101) BRUCELLOSIS MANAGEMENT ACTION PLAN 8 (2008), <https://perma.cc/293Y-WM6F>.

⁹⁷⁹ *Beyond Boundaries*, LANDSCAPE CONSERVATION COOPERATIVE NETWORK, <https://perma.cc/RT6U-R5QN> (last visited Nov. 11, 2017); see Order No. 3289, Ken Salazar, Sec’y of the Interior, Addressing the Impacts of Climate Change on America’s Water, Land, and Other Natural and Cultural Resources 3 (Feb. 22, 2010), <https://perma.cc/T4WQ-LKGL>.

⁹⁸⁰ LANDSCAPE CONSERVATION COOPS., *supra* note 971, at 20.

⁹⁸¹ *Id.*; *Organizational Structure*, LANDSCAPE CONSERVATION COOPERATIVE NETWORK, <https://perma.cc/C49A-TNXU> (last visited Nov. 11, 2017); *Landscape Conservation Cooperative Staff*, LANDSCAPE CONSERVATION COOPERATIVE NETWORK, <https://perma.cc/E3PU-ZAGA> (last visited Nov. 11, 2017).

⁹⁸² LANDSCAPE CONSERVATION COOPS., *supra* note 971, at 3.

efforts of diverse partners at a much greater scale than any one entity could achieve alone.”⁹⁸³

Unfortunately, simply because cooperative processes are in place—through NEPA and many other statutes—does not always ensure that the federal agencies apply them in a way designed to elicit true state and local government cooperation. Bryan and others document several instances where federal processes are merely used as hoops to jump through rather than opportunities for true collaboration.⁹⁸⁴ Federal agencies will need to improve internal culture and education to ensure existing opportunities for collaboration are as successful as possible.

Furthermore, even when state and local governments take advantage of opportunities to participate in federal processes, their intention is not always true cooperation. Bryan and others write:

From the local government perspective, a guarantee of early and meaningful involvement in the federal land planning process is an important factor in determining whether to participate at all. . . . On the federal side, agencies desire local government participants who are well-informed about the federal planning process, do not use the process for political grand-standing, and reciprocate by including federal planners in local land use planning.⁹⁸⁵

For instance, there has been a movement recently among local governments to try to use the coordination clauses in FLPMA and NFMA to force federal agencies to conform their actions to the wishes of local interests.⁹⁸⁶ However, this is not a reasonable interpretation of the statutes, as was demonstrated in Part III.B of this Article. Both laws temper the coordination clauses with additional language that emphasizes that even though coordination is a worthy goal, it cannot come at the expense of federal agencies meeting their statutory obligations.⁹⁸⁷ Local and state governments

⁹⁸³ Press Release, Landscape Conservation Coop. Network, National Academy of Sciences Releases Its Review of the Landscape Conservation Cooperatives (Dec. 3, 2015), <https://perma.cc/PQV9-UYYJ>.

⁹⁸⁴ See Michelle Bryan et al., *Cause for Rebellion? Examining How Federal Land Management Agencies & Local Governments Collaborate on Land Use Planning*, GEO. WASH. J. ENERGY & ENVTL. L., Spring 2015, at 1, 14–16. (“[C]ollaboration must be genuine and not perfunctory to truly be successful in the long term . . .”).

⁹⁸⁵ *Id.* at 2.

⁹⁸⁶ Joshua Zaffos, *Counties Use a ‘Coordination’ Clause to Fight the Feds*, HIGH COUNTRY NEWS (May 11, 2015), <https://perma.cc/G7TP-62FR>.

⁹⁸⁷ See NFMA, 16 U.S.C. § 1604(e) (2012) (requiring land and resource management plans to comply with the agency’s multiple use and sustained yield mandate); FLPMA, 43 U.S.C. § 1712(c)(9) (2012) (“The Secretary shall . . . [coordinate] to the extent consistent with the laws governing the administration of the public lands . . .”). Even the Public Lands Council, an interest group which represents cattle and sheep producers who hold public grazing permits, has recognized that this is a disingenuous reading:

Unfortunately, some local governments have taken the BLM consistency requirement to mean that by simply handing the BLM their land use plan, the BLM will be forced to comply with it. Not only is this incorrect, it undermines the ongoing negotiation and information sharing process that is at the core of coordination. Experienced

must work to improve their own use of federal processes and to get involved knowledgably with the intention of being good partners.

2. Opportunities to Cooperate at the State Level

If states are truly looking for meaningful cooperation between federal and state entities regarding wildlife management, then significant opportunities for federal input in state decision making must exist as well. State and local governments regulate the uses of private and state lands that are adjacent to federal lands, and that may cause spill-over effects onto federal lands.⁹⁸⁸ For example, the National Parks Conservation Association (NPCA) recently complained that the proposed Greater Yellowstone grizzly bear delisting plan “[f]ails to provide [NPS] a formal seat at the table to work with state agencies on the management of park bears that occasionally move beyond park borders.”⁹⁸⁹ Without formal mechanisms to promote and institutionalize intergovernmental cooperation, those issues will rarely be considered. Federal law, regulation, and policy encourage intergovernmental cooperation, but there does not appear to be a similar emphasis found in state law and regulation. Again, cooperation, to be effective, must be a two-way street.

For example, when it comes to local land use decisions that have obvious impacts on wildlife, there is rarely an opportunity for federal involvement in the decision making. One exception is Oregon, where “local governments are specifically instructed to collaborate with federal agencies in areas such as natural resources, estuaries, and coastal shorelands.”⁹⁹⁰ Oregon might serve as an example of how other states could modify laws and regulations to encourage such cooperation. “[W]estern states could do much to advance the issue of local-federal land use planning by simply noting, in nonadversarial language, the importance of that issue in their enabling legislation.”⁹⁹¹ For true cooperation to be successful, local, state, and federal governments must work as partners.⁹⁹² To that end, states should create similar opportunities for federal agencies to engage in state and local decision making.

coordinators recognize that the BLM has no obligation to adhere to any local plan or policy that is inconsistent with federal laws and regulations.

PUB. LANDS COUNCIL, A BEGINNER'S GUIDE TO COORDINATION 10 (2012), <https://perma.cc/YW3C-B3CE>; see *About PLC*, PUB. LANDS COUNCIL, <https://perma.cc/manage/create> (last visited Nov. 11, 2017).

⁹⁸⁸ See Bryan et al., *supra* note 984, at 1–5 (providing an overview of local and state land use planning).

⁹⁸⁹ Stephanie Adams, *Iconic Grizzlies Deserve a More Thoughtful Plan*, BOZEMAN DAILY CHRON. (Oct. 15, 2016), <https://perma.cc/W6MN-6NGP>.

⁹⁹⁰ Bryan et al., *supra* note 984, at 4.

⁹⁹¹ *Id.* at 5.

⁹⁹² *Id.* at 2.

3. Cooperation Does Not Equal Federal Acquiescence

In none of the cooperation sections reviewed in Part III.B does the statute in question *require* the federal government to follow state preferences. And in all cases, the statutes do not *permit* the federal agency to relinquish its statutory obligations, even in the face of state dissent. Cooperation under these federal statutes is an opportunity for other levels of government to have privileged access to the decision-making process, to ensure that concerns are considered, and available data is exchanged.

Agencies should absolutely determine if it is possible to meet the needs of other governmental entities, but they cannot be expected to jettison their own statutory or constitutional obligations to reach that goal. For instance, in Alaska, where the state determined that the requirements of ANILCA conflicted with the state constitution, the resolution was that the state could not be forced to implement that statute.⁹⁹³ Likewise, if a federal agency determines that a state's request conflicts with its own legal mandates, it too must refuse to acquiesce to them.⁹⁹⁴ However, in the absence of legal conflicts, we encourage state and federal entities to seriously consider, and if possible accommodate, the interests of other governmental entities.

"[W]ildlife move across eco-regions . . . but management approaches change across arbitrary boundaries."⁹⁹⁵ It is crucial, therefore, that all levels of government cooperate and coordinate their efforts as much as is possible given the legal framework in which they operate. As the court in *Wyoming* stated: "Wildlife management policies affecting the interests of multiple sovereigns demand a high degree of intergovernmental cooperation."⁹⁹⁶ A structure for such cooperation is still largely absent from state processes, and while such a structure is already embedded in federal programs, federal agencies could still improve its implementation in order to better fulfill its intent.

V. CONCLUSION

This is a tumultuous time to be writing about public lands, federalism, and wildlife. Each has been impacted by the deep ideological fissures, polarization, and partisanship characterizing modern American politics. Of course, there has always been a tension between federal and state interests in the management of federal lands and resources. Some of the earliest and most precedential disputes in the field initially revolved around wildlife management and the respective powers of federal and state governments. Slowly, over time, the courts answered these questions and made clear the extensive powers of the federal government to manage public lands and the wildlife thereon. These include *Missouri v. Holland* (1920), *Hunt v. United States* (1928), *Kleppe v. New Mexico* (1976), *Hughes v. Oklahoma* (1979),

⁹⁹³ *McDowell*, 785 P.2d 1, 3, 9 (Alaska 1989).

⁹⁹⁴ See discussion *supra* Part III.A.4.

⁹⁹⁵ Bryan et al., *supra* note 984, at 2 (omission in original).

⁹⁹⁶ *Wyoming*, 279 F.3d 1214, 1218 (10th Cir. 2002).

and dozens of other cases at all levels of the judicial system. A consistent pattern of primary federal authority emerges from these cases, but even where the Supreme Court corrected itself in overturning *Geer v. Connecticut*, it did so carefully and constructively, finding in favor of the federal government and interstate commerce but also recognizing the “legitimate state concerns for conservation and protection of wild animals.”⁹⁹⁷

A tension between federal and state interests is embedded in federal land and resources law. In each of the statutes reviewed in Part III.B, Congress required these lands and resources to be managed in the national interest and recognized that federal authority is superior to that of the states. At the same time, Congress appreciated the historical and important position of the states in managing wildlife, and these statutes accordingly provide them a meaningful role to play in federal lands planning and management.

While the law is clear, the politics of wildlife management is not. In 1981, George Coggins and Michael Ward reviewed the law of wildlife management on federal lands and concluded that the “jurisdictional imbroglio is more political than legal.”⁹⁹⁸ Nothing has changed in this regard. As discussed in Part II, some state interests continue to insist on their “sovereign rights” to manage wildlife on federal lands, notwithstanding the decisions made by the courts and Congress over the years. On the other hand are federal land agencies that are often in self-denial about their responsibilities for wildlife management and conservation. Too often adopting an overly narrow view of their responsibilities, we found federal land agencies applying their authorities in an inconsistent fashion, to the dismay of the states and those outside interests willing to challenge them.

The most unfortunate consequence of the federal-state conflicts reviewed here is that they draw attention away from the practice of wildlife conservation. A more productive way to proceed in the future is by working more constructively within the carefully crafted legal framework provided by the U.S. Constitution and federal land law rather than against it, and by embracing the conservation obligations that are inherent in federal lands and wildlife trust management.

⁹⁹⁷ *Hughes*, 441 U.S. 322, 335–36 (1979), *overruling Geer*, 161 U.S. 519 (1896).

⁹⁹⁸ George Cameron Coggins & Michael E. Ward, *The Law of Wildlife Management on the Federal Public Lands*, 60 OR. L. REV. 59, 60, 84 (1981). Coggins and Ward note that, in creating the “delicate allocation of management jurisdiction” in federal land law, “Congress has been extremely solicitous of state sensibilities” and that “[s]ome members of Congress applaud . . . the federal self-denial.” *Id.* at 75, 83–84. They conclude that “[t]he main legislative theory seems to be on the order of ‘let’s just muddle through as best we can and let the courts handle the hard cases.’” *Id.* at 84–85.