Working Lands for Wildlife’s (WLFW) shared vision of wildlife conservation through sustainable ranching includes producers as part of the solution for implementing conservation to reduce persistent, non-regulatory threats. This vision rallies and sustains partnerships from the very start and sustains landowner enrollment. Landowners are not forced to enroll. Instead, the WLFW shared vision is congruent with ranchers’ values and leverages the Farm Bill’s 80-year history of voluntary conservation to put that vision into practice.

WLFW use of coproduced science does not always yield anticipated outcomes, but forces conservationists to think differently about perceived threats. Such was the case when pastures rested from domestic grazing did not benefit sage grouse populations as originally expected.

In Brief: WLFW science has raised the collective understanding of the importance of ranching to wildlife conservation across western public-private land ownerships.
concealing cover for nests is unlikely to be limiting population growth regardless of grazing strategy. In response, the USDA’s Natural Resources Conservation Service (NRCS) adjusted the delivery of conservation practices to de-emphasize financial incentives for extended rest within rotational grazing systems.

Additional science revealed maximization of hiding cover may be overemphasized in grazing management guidelines and policies.\textsuperscript{1} Findings suggested females instead select nest sites based on relatively static features such as sagebrush cover and distance from roads, whereas nest failure was driven primarily by extended periods of heavy precipitation. As a result, the management of sage grouse nesting habitat should focus on conserving areas of adequate shrub cover and preventing fragmentation of intact grazing lands.

Entomological study in the same landscapes showed arthropods consumed by sage grouse were twice as prevalent in grazed shrublands than in nearby pastures that had been idled without hypothesized.\textsuperscript{1,2} Outcome assessments found no evidence that rest from grazing (≥12 months) increased daily nest survival rates. Rotational grazing systems and rest had negligible effects on herbaceous vegetation height and cover relative to other grazing strategies.\textsuperscript{1} Nest survival was comparable to range-wide averages, suggesting

\begin{figure}
\centering
\includegraphics[width=\textwidth]{chart1.png}
\caption{Nesting success was similar among different grazing management systems (non–SGI), and rotational grazing, which kept livestock off of designated areas to allow vegetation to recover (SGI–RGS bar) had no effect on nest survival (1).}
\end{figure}

\begin{figure}
\centering
\includegraphics[width=\textwidth]{chart2.png}
\caption{Activity–density of grouse–food arthropods in grazed, rested and idled pastures in central Montana. Bars represent average weekly catch and standard errors. Grazed rangelands produced more sage grouse food compared to idled pastures where predatory spiders were most abundant (3).}
\end{figure}
Livestock Grazing

Photo: Jeremy Roberts/Conservation Media

domestic grazing for more than a decade. Lands managed with grazing supported a more diverse assemblage of ground-dwelling arthropods, which may be particularly beneficial as food resources for birds. Outcomes suggested that periodic disturbance may enhance arthropod diversity and that sage grouse may benefit from livestock grazing with periodic rest or deferment.

Findings spawned additional inquiry challenging the long-held belief that grazing restrictions inevitably benefit sage grouse populations. A follow-up study revealed commonly used methodologies are inherently biased, misrepresenting the relationships between habitat structure and sage grouse nest success. A range-wide meta-analysis reveals weak effects of grass height on nest-site selection with no relationship to nest success, suggesting nesting habitat–fitness relationships have been inappropriately extrapolated in developing range-wide habitat management objectives.

Management of public lands, and who should have access to them, remains contentious in the West. Most private ranching enterprises rely upon seasonal grazing access to public lands, and ongoing wildlife conflicts result in continual calls to restrict grazing on public lands. In a final line of questioning, WLFW found restricting grazing on public lands can increase habitat loss on private lands and reduce community support for conservation. A preferred approach for maintaining habitat is a policy that facilitates management on public lands while also supporting sustainable, economically viable ranching operations on private lands.
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